DAIKIN

R410A

TECHNICAL MANUAL

Split Unit Air Conditioner
Wall Mounted J Series

FTN-J, FTYN-J series

— Cooling only & Heatpump [50Hz] —



For internal reference only

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R410A

TECHNICAL MANUAL

Split Unit Air Conditioner
Ceiling Cassette C & E Series

FCQN-E, FFQN-C, FCRN-E, FFRN-C

— Cooling only & Heatpump [50Hz] —



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TECHNICAL MANUAL

Split Unit Air Conditioner
Ceiling Mounted C & E Series

FLRN-E, FHRN-C, FLQN-E, FHQN-C series

— Cooling only & Heatpump [50Hz] —



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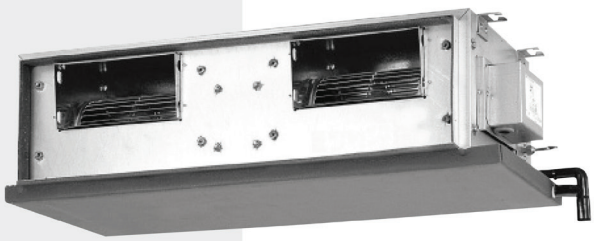
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TECHNICAL MANUAL

Split Unit Air Conditioner
Ceiling Concealed Series

FDMRN-C, FDMQN-C Series

— Cooling only & Heatpump [50Hz] —



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TECHNICAL MANUAL

Split Unit Air Conditioner
Wall Mounted J Series

FTN-J, FTYN-J series

— Cooling only & Heatpump [50Hz] —



For internal reference only

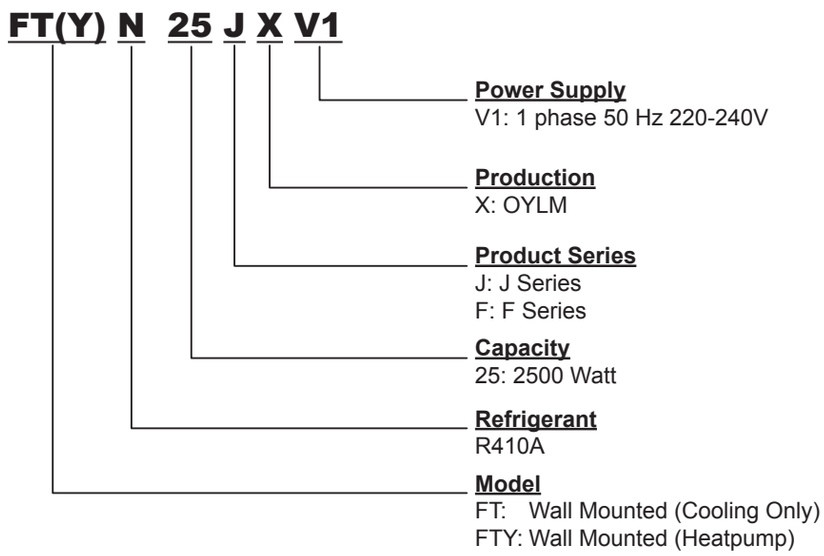
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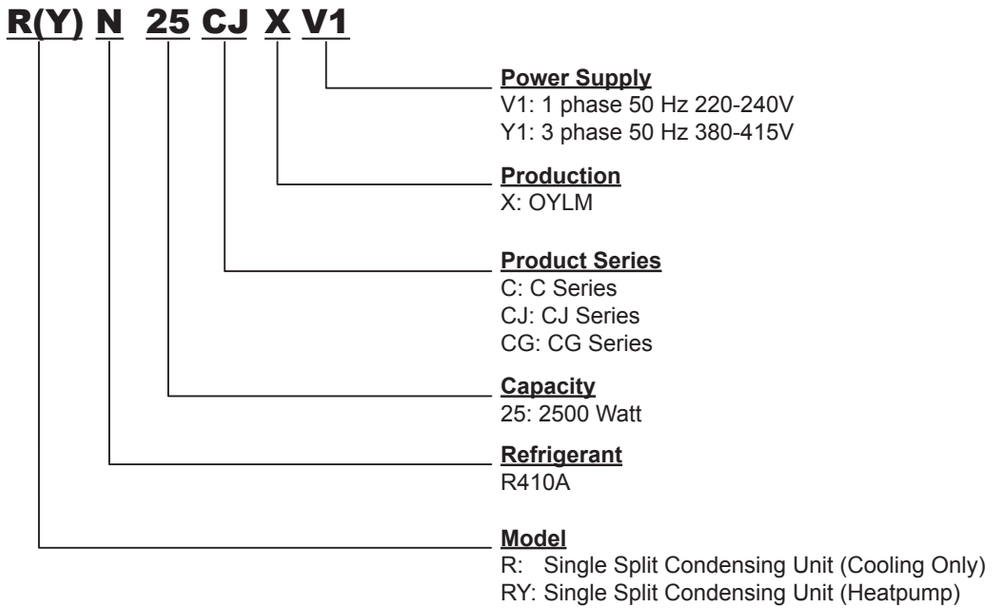
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Nomenclature

Indoor



Outdoor



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Product Line-Up

Indoor Unit
FT(Y)N

Nomenclature		Classification								
		Handset		PCB		Air Purification		Grille	Others	
		BRC52A51	BRC52A61	L2	LGSN	Saranet Filter	Negative Ionizer	A	Auto Restart	Orifice Kit
COOLING	FTN25JXV1	X			X	X		X	X	
	FTN35JXV1	X			X	X		X	X	
	FTN50JXV1	X			X	X		X	X	
	FTN60JXV1	X			X	X		X	X	
	FTN80FXV1	X		X			X			X
HEATPUMP	FTYN25JXV1		X		X	X		X	X	
	FTYN35JXV1		X		X	X		X	X	
	FTYN50JXV1		X		X	X		X	X	
	FTYN60JXV1		X		X	X		X	X	
	FTYN80FXV1		X	X			X			

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Outdoor Unit
R(Y)N / RR / RQ

Nomenclature		Classification												
		Refrigerant Control		Fin			Safety Devices				Compressor		Others	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow	
COOLING	RN25CJXV1	X			X							X		
	RN35CJXV1	X			X							X		
	RN50CJXV1	X			X							X		
	RN50CJXY1	X			X		X			X		X		
	RN60CJXV1	X			X							X		
	RN60CJXY1	X			X		X			X		X		
	RR71CJXV1	X			X							X		
	RR71CJXY1	X			X		X			X		X		
HEATPUMP	RYN20CJXV1	X			X							X	X	
	RYN25CJXV1	X			X							X	X	
	RYN35CJXV1	X			X							X	X	
	RYN50CJXV1	X			X							X	X	
	RYN50CJXY1	X			X		X			X		X	X	
	RYN60CJXV1	X			X							X	X	
	RYN60CJXY1	X			X		X			X		X	X	
	RQ71CJXV1	X			X							X	X	
	RQ71CJXY1	X			X		X			X		X	X	

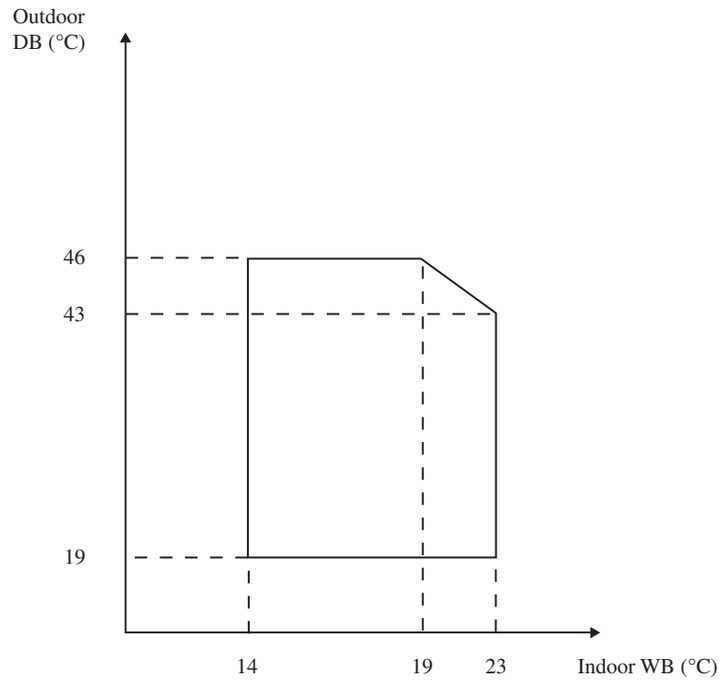
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Application Information

Operating Range

Ensure the operating temperature is in allowable range.

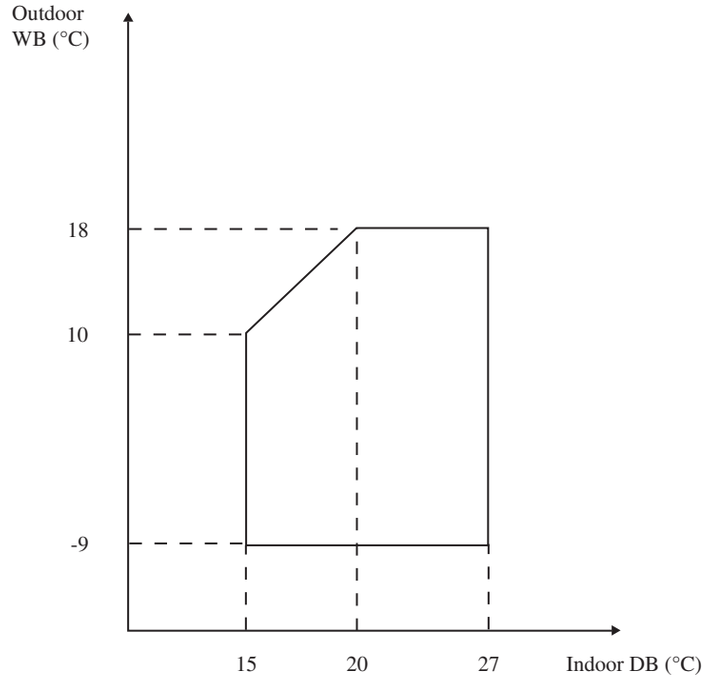
Cooling



⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heating



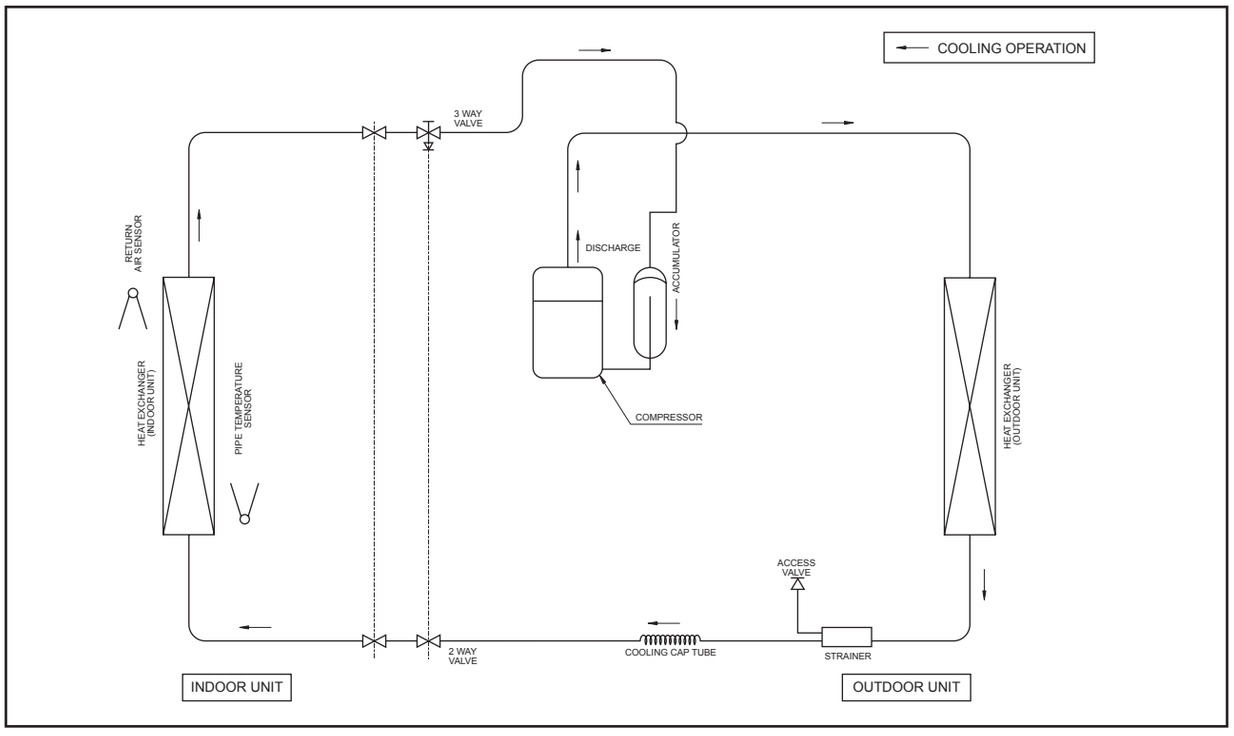
⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

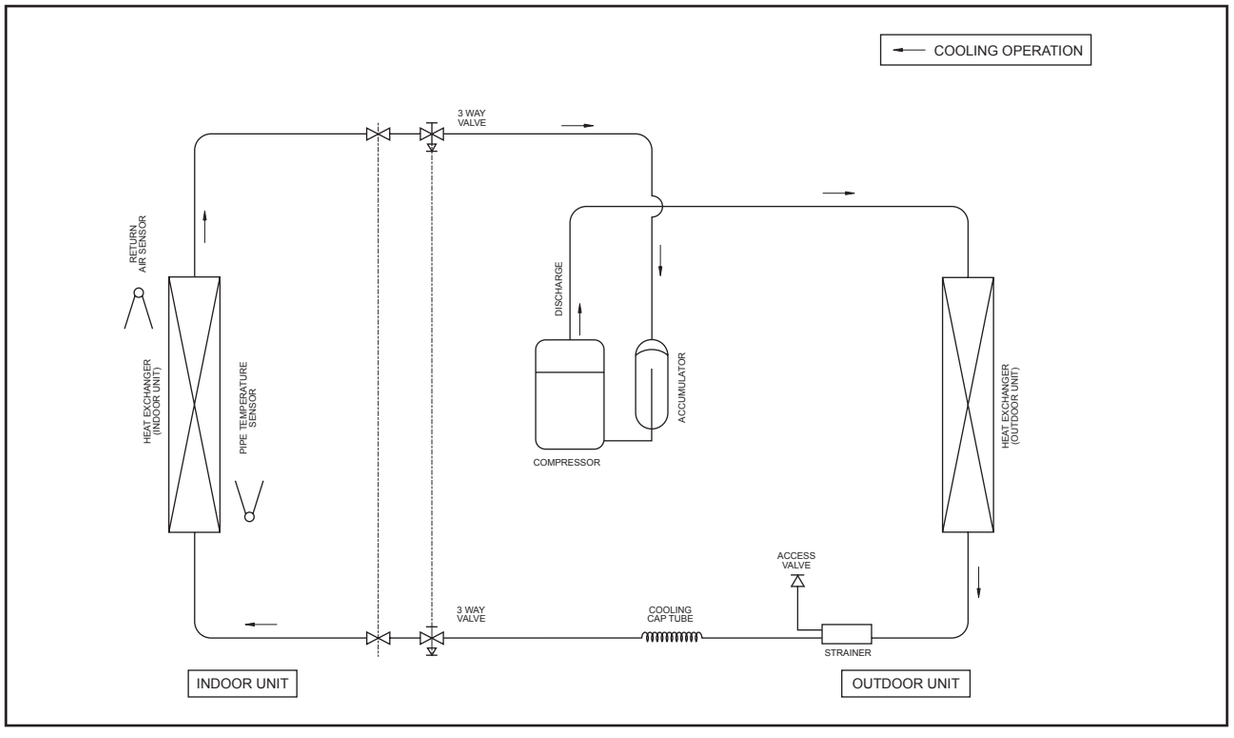
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Refrigerant Circuit Diagrams

Model: FTN25JXV1 – RN25CJXV1 / FTN35JXV1 – RN35CJXV1 / FTN50JXV1 – RN50CJXV1 / FTN60JXV1 – RN60CJXV1

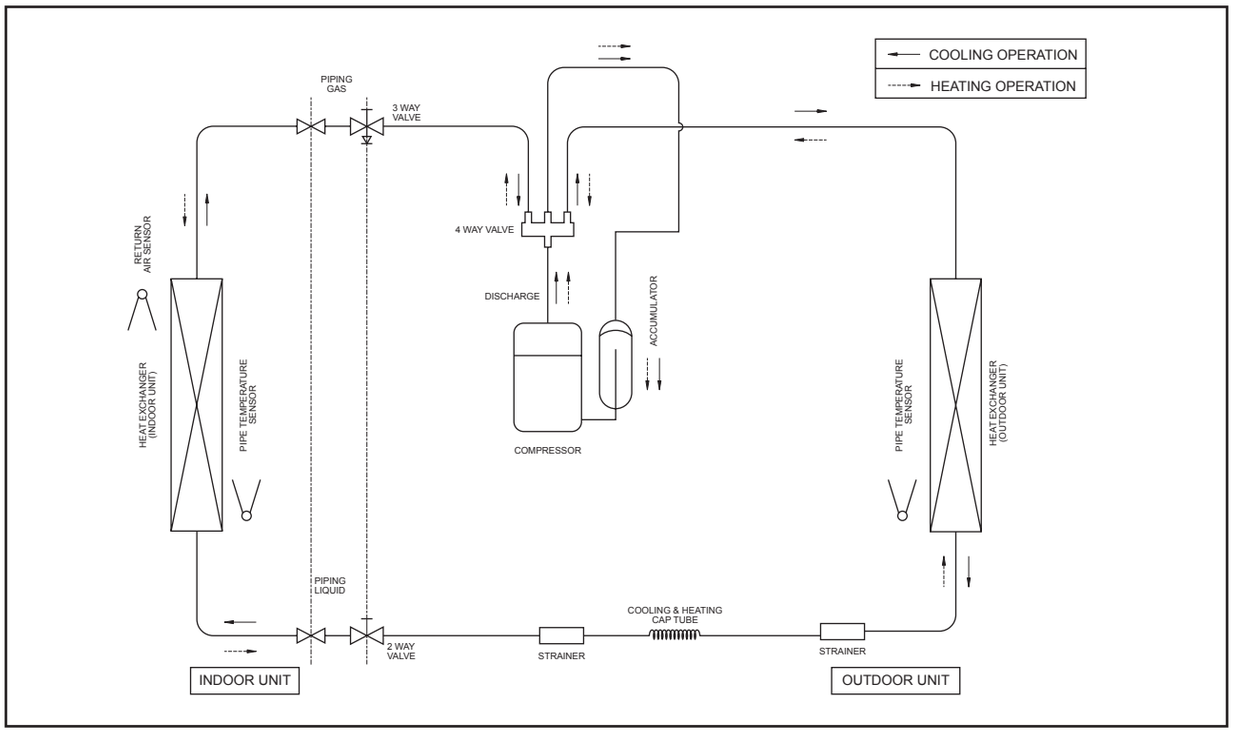


Model: FTN80FXV1 – RR71CXV1 / FTN80FXV1 – RR71CXY1

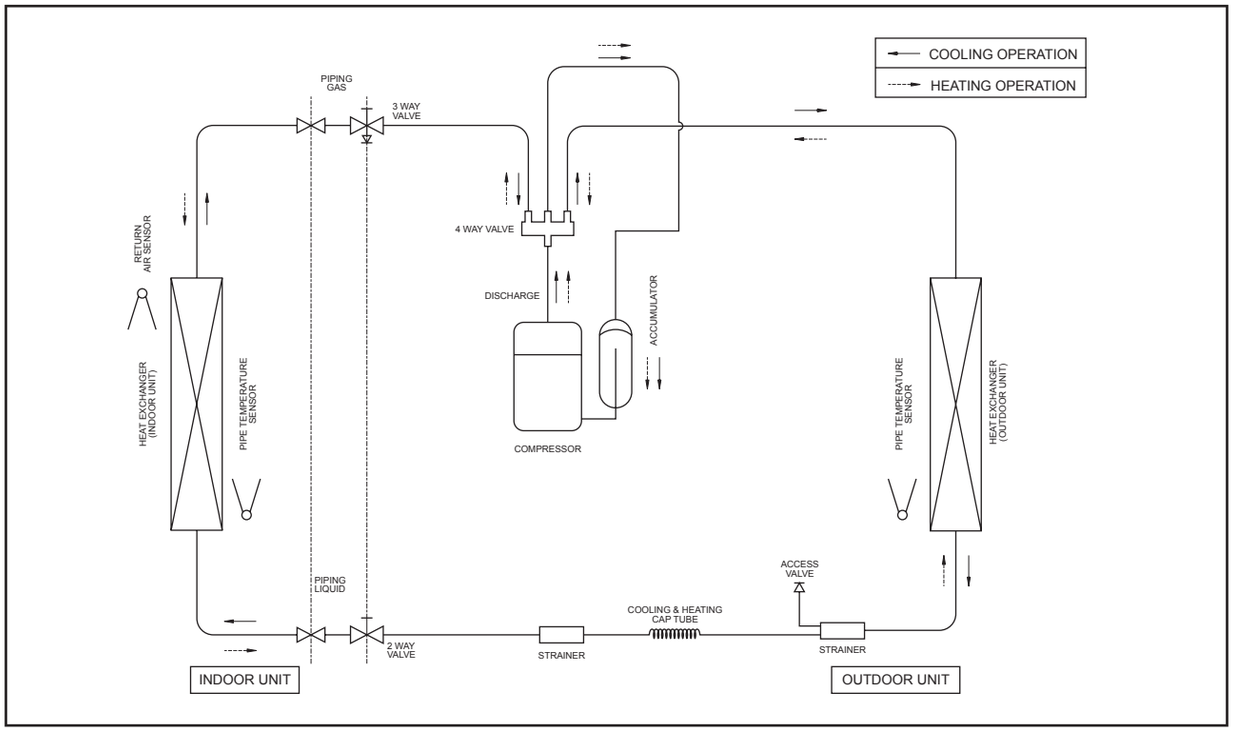


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Model: FTYN20JXV1 – RYN20CGXV1

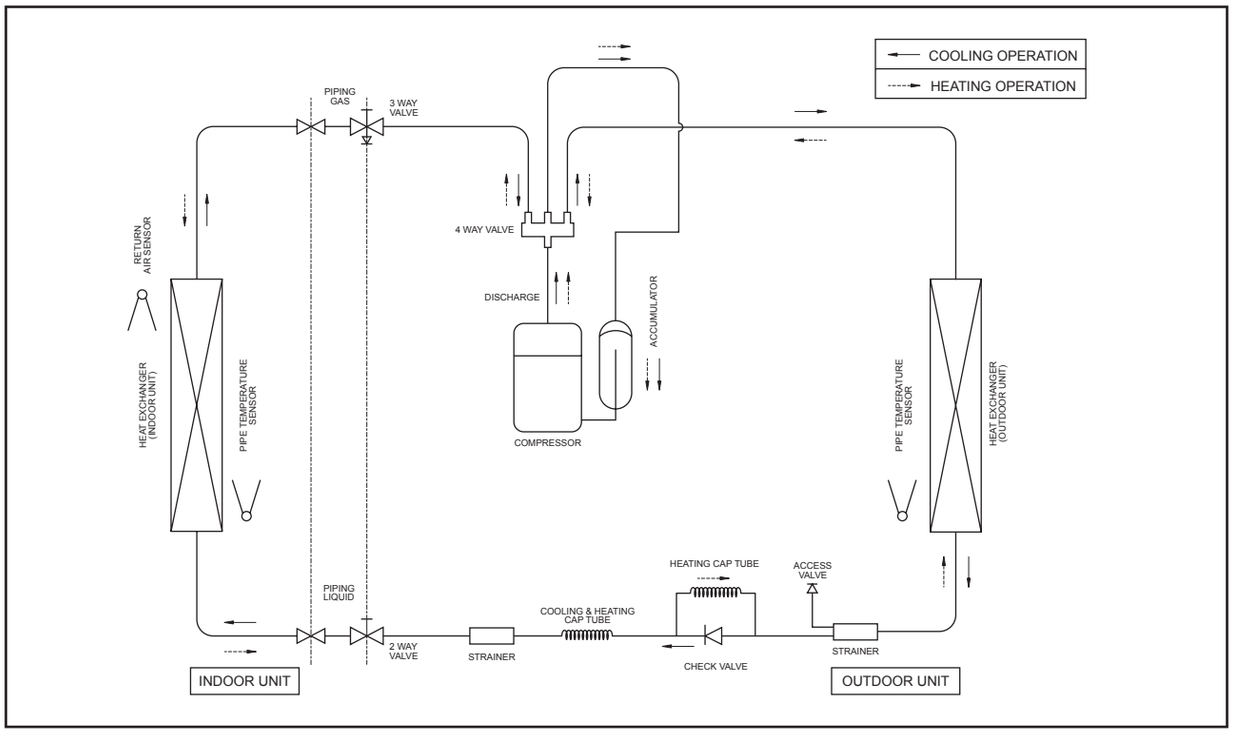


Model: FTYN25JXV1 – RYN25CJXV1

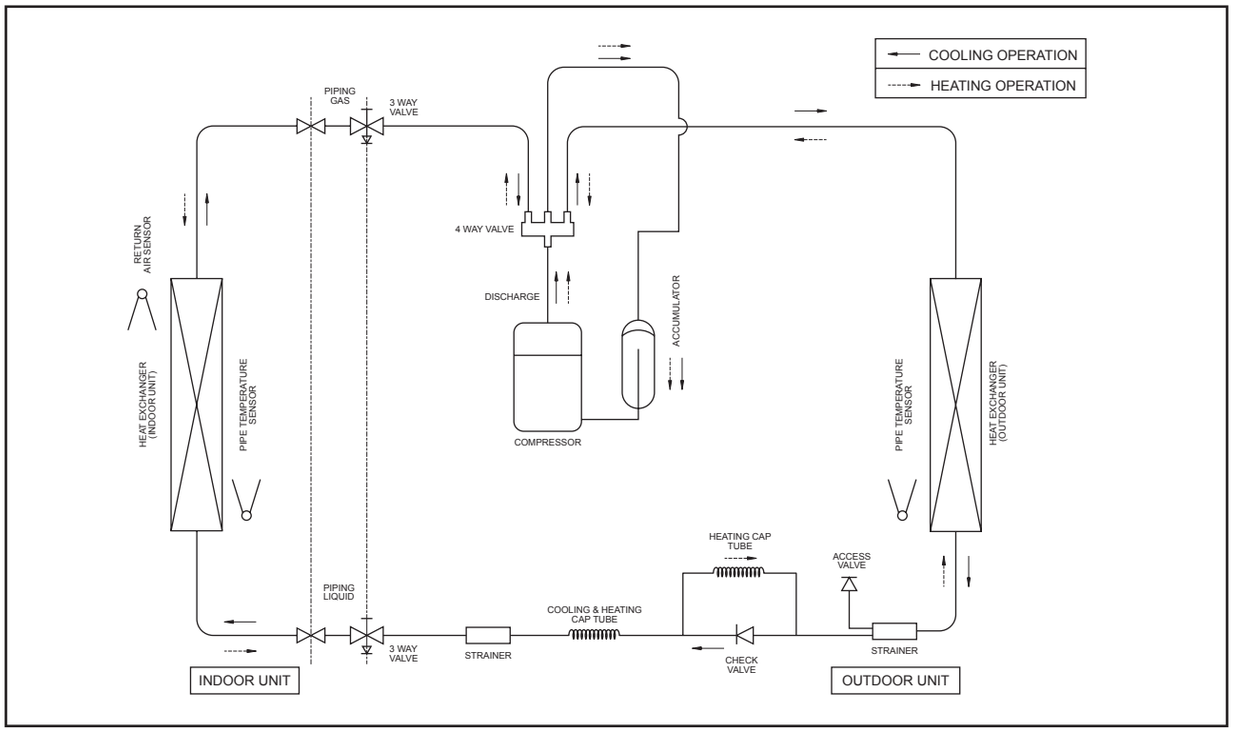


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Model: FTYN35JXV1 – RYN35CJXV1 / FTYN50JXV1 – RYN50CJXV1 / FTYN60JXV1 – RYN60CJXV1



Model: FTYN80FXV1 – RQ71CXV1 / FTYN80FXV1 – RQ71CXY1



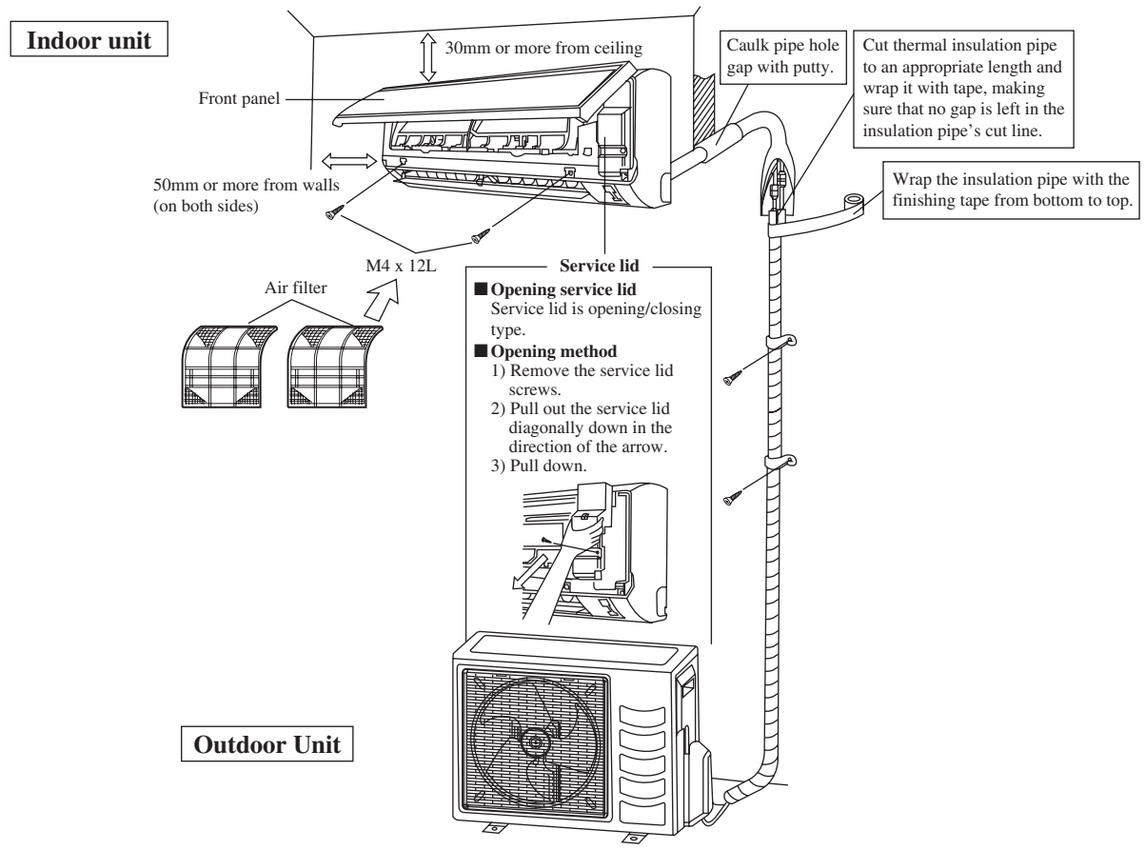
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Installation Guideline

⚠ Caution

Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.

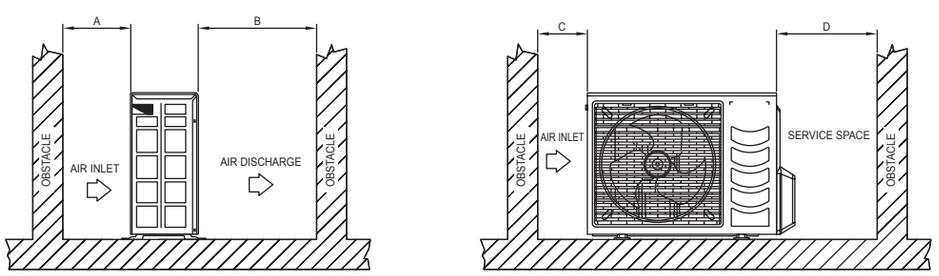
Installation Diagram



Outdoor Clearance

⚠ Caution

If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such as substances may lead to failure of the unit.



ALL MODELS	A	B	C	D
Minimum Distance	300 mm	1000 mm	300 mm	500 mm

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Cable Size

Model	Unit	FTN25JXV1	FTN35JXV1	FTN50JXV1
		RN25CJXV1	RN35CJXV1	RN50CJXV1
Power supply cable size Number of wire	mm^2	1.5 3	1.5 3	2.5 3
Interconnection cable size Number of wire	mm^2	1.5 3	1.5 3	2.5 3
Recommended fuse	A	15	15	20

Model	Unit	FTN60JXV1	FTN80FXV1	
		RN60CJXV1	RR71CXV1	RR71CXY1
Power supply cable size Number of wire	mm^2	2.5 3	2.5 3	1.5 5
Interconnection cable size Number of wire	mm^2	2.5 3	2.5 3	1.5 4
Recommended fuse	A	20	20	15

Model	Unit	FTYN20JXV1	FTYN25JXV1	FTYN35JXV1
		RYN20CGXV1	RYN25CJXV1	RYN35CJXV1
Power supply cable size Number of wire	mm^2	1.5 3	1.5 3	1.5 3
Interconnection cable size Number of wire	mm^2	1.5 5	1.5 3	1.5 3
Recommended fuse	A	15	15	15

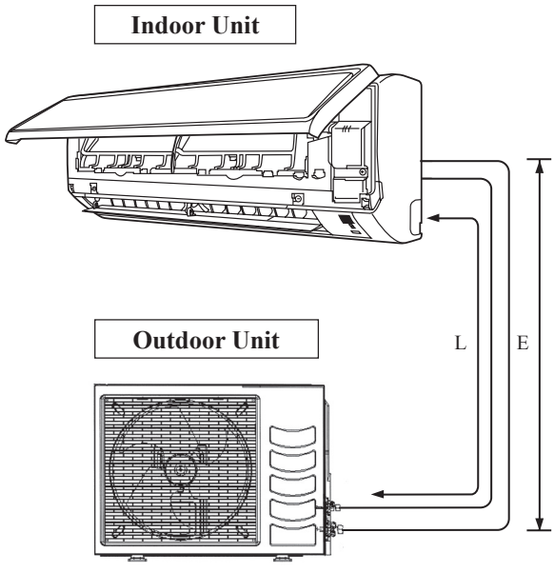
Model	Unit	FTYN50JXV1	FTYN60JXV1	FTYN80FXV1	
		RYN50CJXV1	RYN60CJXV1	RQ71CXV1	RQ71CXY1
Power supply cable size Number of wire	mm^2	2.5 3	2.5 3	2.5 3	2 5
Interconnection cable size Number of wire	mm^2	2.5 5	2.5 5	2.5 3	1.5 6
Recommended fuse	A	20	20	20	15

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Refrigerant Piping

Piping Length and Elevation

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:



Cooling Only Model

Model	Indoor	FTN25JXV1	FTN35JXV1	FTN50JXV1	FTN60JXV1	FTN80FXV1	
	Outdoor	RN25CJXV1	RN35CJXV1	RN50CJXV1	RN60CJXV1	RR71CXV1	RR71CXY1
Min.Allowable Length (L), m		3					
Max.Allowable Length (L), m		12	12	20	20	15	15
Max.Allowable Elevation (E), m		5	5	15	15	8	8
Gas Pipe Size, mm/(in)		9.52 / (3/8")	12.70 / (1/2")	12.70 / (1/2")	15.88 / (5/8")	15.88 / (5/8")	15.88 / (5/8")
Liquid Pipe Size, mm/(in)		6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	9.52 / (3/8")	9.52 / (3/8")

Heatpump Model

Model	Indoor	FTYN20JXV1	FTYN25JXV1	FTYN35JXV1	FTYN50JXV1	FTYN60JXV1	FTYN80FXV1	
	Outdoor	RYN20CGXV1	RYN25CJXV1	RYN35CJXV1	RYN50CJXV1	RYN60CJXV1	RQ71CXV1	RQ71CXY1
Min.Allowable Length (L), m		3						
Max.Allowable Length (L), m		12	12	12	20	20	15	15
Max.Allowable Elevation (E), m		5	5	5	15	15	8	8
Gas Pipe Size, mm/(in)		9.52 / (3/8")	9.52 / (3/8")	12.70 / (1/2")	12.70 / (1/2")	15.88 / (5/8")	15.88 / (5/8")	15.88 / (5/8")
Liquid Pipe Size, mm/(in)		6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	9.52 / (3/8")	9.52 / (3/8")

Additional Charge

- The refrigerant gas is charged in the outdoor unit and, if the piping length is 7.6m, additional charge of the refrigerant after vacuuming is not necessary.
- When the piping length is more than 7.6m, additional refrigerant charge (g) per additional 1m length as tabulated:

R410A – Cooling Only

Model	Indoor	FTN25JXV1	FTN35JXV1	FTN50JXV1	FTN60JXV1	FTN80FXV1	
	Outdoor	RN25CJXV1	RN35CJXV1	RN50CJXV1	RN60CJXV1	RR71CXV1	RR71CXY1
Add. Charge, g/m		9	9	19	16	23	23

R410A – Heatpump

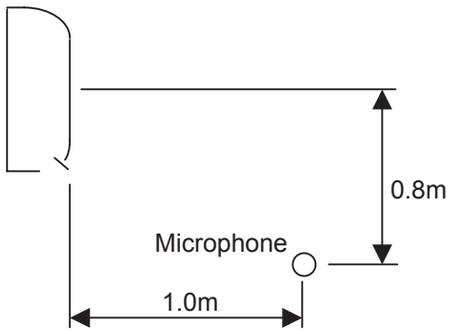
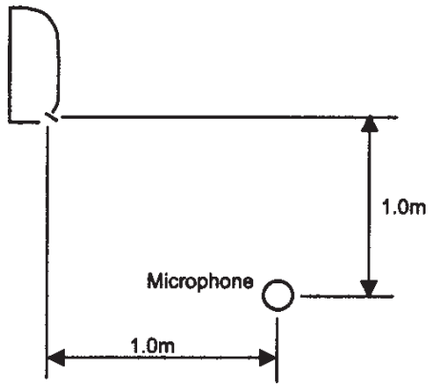
Model	Indoor	FTYN20JXV1	FTYN25JXV1	FTYN35JXV1	FTYN50JXV1	FTYN60JXV1	FTYN80FXV1	
	Outdoor	RYN20CGXV1	RYN25CJXV1	RYN35CJXV1	RYN50CJXV1	RYN60CJXV1	RQ71CXV1	RQ71CXY1
Add. Charge, g/m		20	16	16	19	16	41	41

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Sound Data

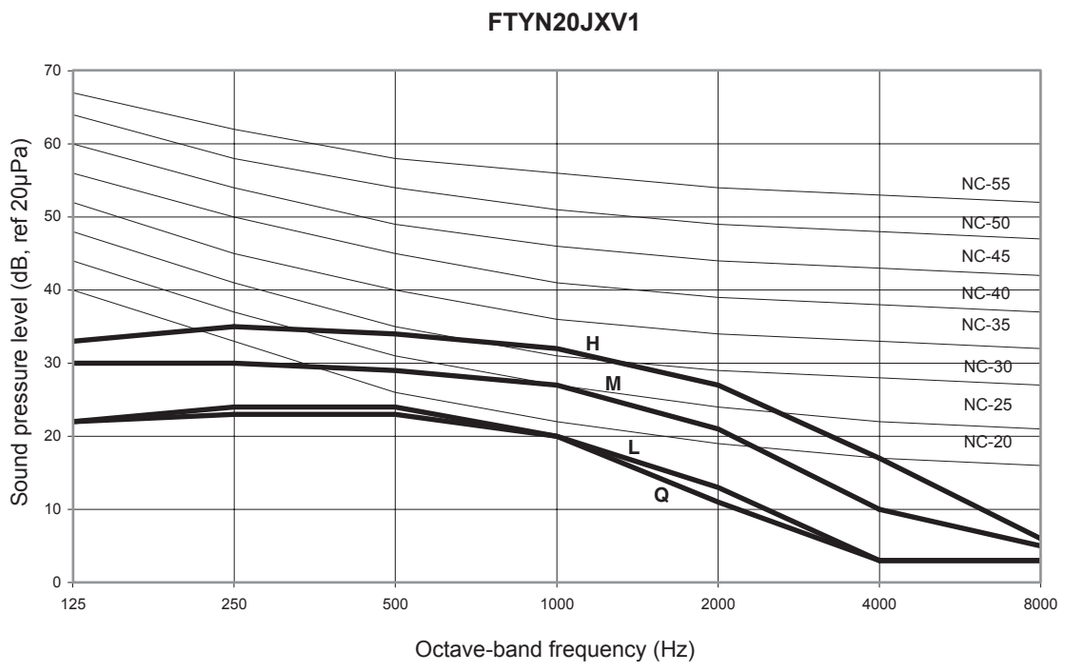
Sound Pressure Level

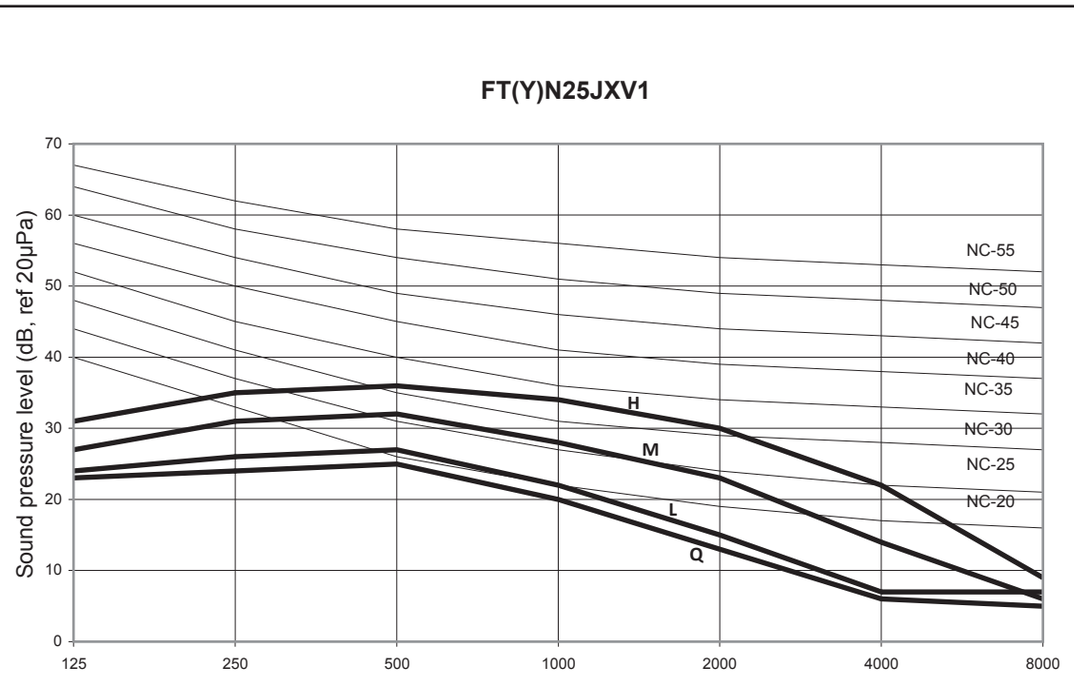
Model	Speed	1/1 Octave Sound Pressure (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FTYN20JXV1	High	33	35	34	32	27	17	6	36	31
	Med	30	30	29	27	21	10	5	31	25
	Low	22	24	24	20	13	3	3	25	-
	Quiet	22	23	23	20	11	3	3	24	-
FT(Y)N25JXV1	High	31	35	36	34	30	22	9	38	33
	Med	27	31	32	28	23	14	6	33	25
	Low	24	26	27	22	15	7	7	27	21
	Quiet	23	24	25	20	13	6	5	25	-
FT(Y)N35JXV1	High	34	37	38	36	33	25	13	40	35
	Med	31	33	34	30	26	17	11	35	29
	Low	30	28	29	24	19	11	10	29	23
	Quiet	29	27	28	23	18	11	10	28	22
FT(Y)N50JXV1	High	21	31	36	38	36	27	15	42	37
	Med	17	28	34	35	32	23	13	39	34
	Low	14	26	31	32	29	20	12	36	32
	Quiet	12	25	31	31	27	20	13	34	30
FT(Y)N60JXV1	High	40	42	42	42	39	32	20	46	43
	Med	37	39	39	39	36	27	19	43	39
	Low	34	37	37	36	32	24	18	40	37
	Quiet	31	35	35	33	29	22	18	37	33
FT(Y)N80FXV1	High	42	46	45	44	41	35	28	49	43
	Med	40	45	44	43	35	33	27	47	42
	Quiet	37	43	43	40	35	30	26	45	39

Model	Measuring Location
FTYN20JXV1 FT(Y)N25JXV1 FT(Y)N35JXV1 FT(Y)N50JXV1 FT(Y)N60JXV1	 Standard : JIS C 9612
FT(Y)N80FXV1	 Standard : JIS B 8615

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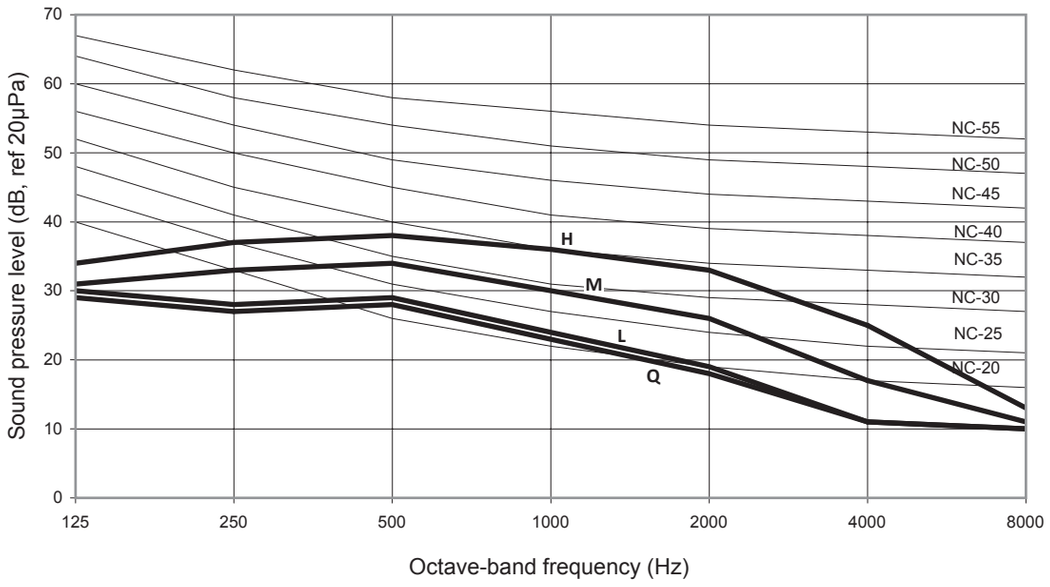
NC Curve



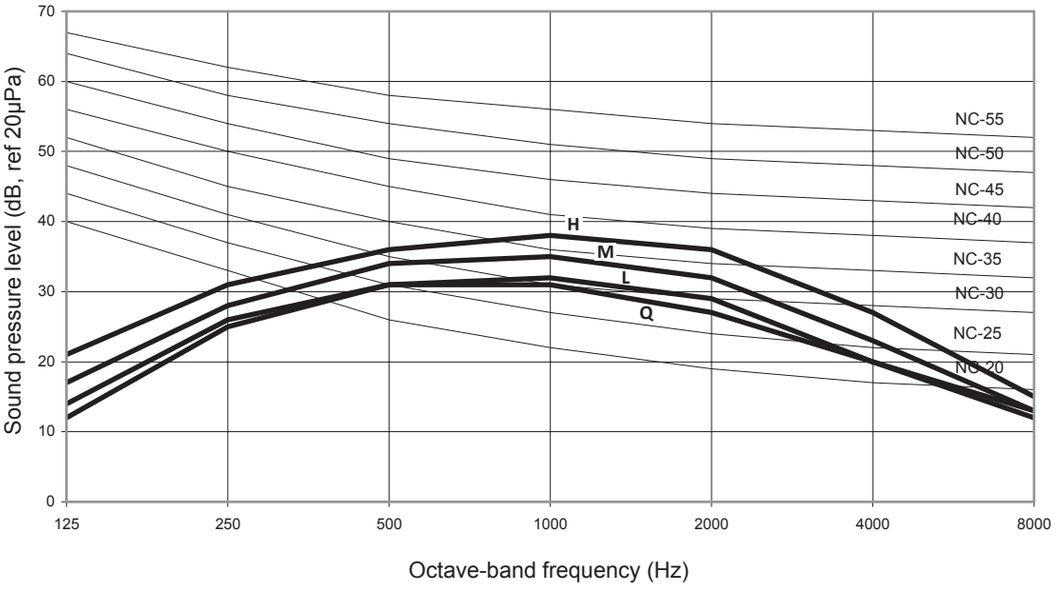


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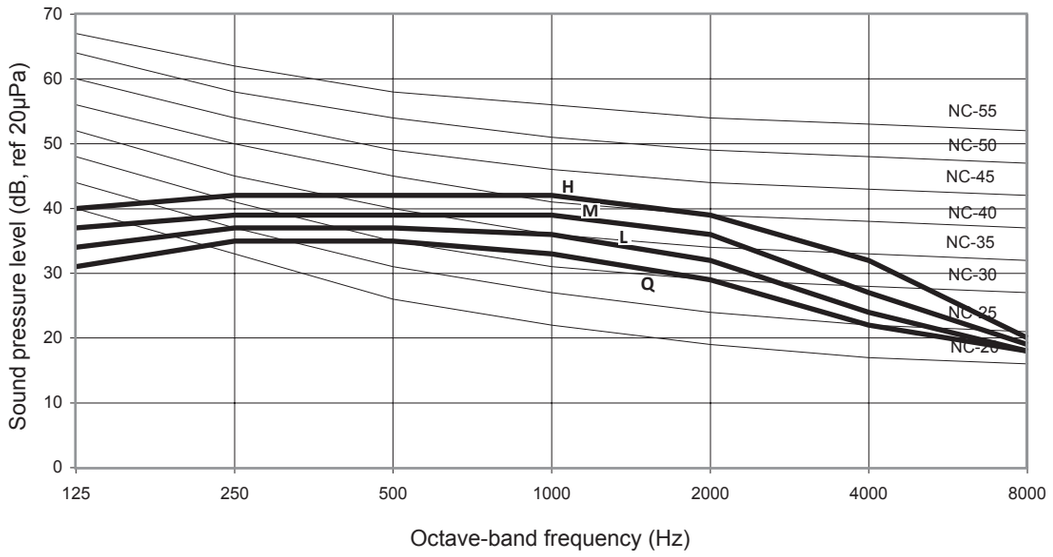


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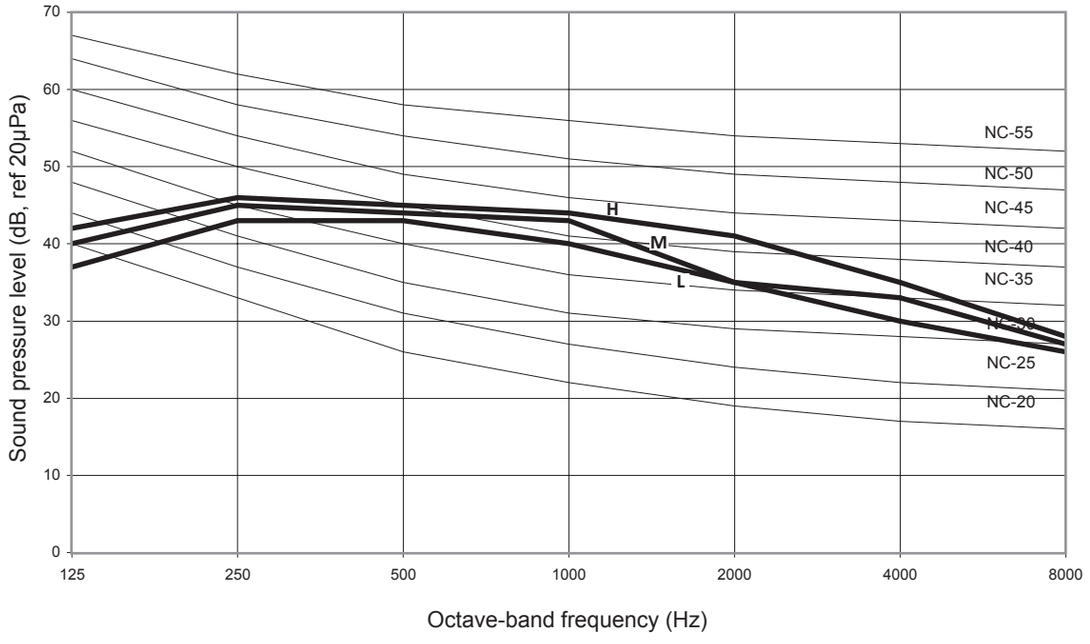


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FT(Y)N60JXV1



FT(Y)N80FXV1



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Engineering & Physical Data

Engineering Data - R410A MODEL (Cooling Only)

MODEL		INDOOR UNIT		FTN25JXV1	FTN35JXV1	FTN50JXV1	FTN60JXV1
		OUTDOOR UNIT		RN25CJXV1	RN35CJXV1	RN50CJXV1	RN60CJXV1
NOMINAL COOLING CAPACITY			Btu/h	9040	10750	17900	20500
			W	2650	3150	5250	6010
NOMINAL TOTAL INPUT POWER (COOLING)			W	825	1094	1635	1870
NOMINAL RUNNING CURRENT (COOLING)			A	3.70	5.10	7.19	8.26
EER			W/W	3.21	2.88	3.21	3.21
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE			
REFRIGERANT CHARGE			kg	0.80	0.85	1.45	1.65
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50			
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL			
	AIR FLOW	TURBO	l/s / CFM	169 / 358	176 / 372	269 / 570	303 / 641
		HIGH	l/s / CFM	161 / 342	168 / 355	253 / 536	290 / 614
		MEDIUM	l/s / CFM	133 / 282	140 / 298	226 / 478	253 / 537
		LOW	l/s / CFM	106 / 225	114 / 242	200 / 424	224 / 474
		QUIET	l/s / CFM	99 / 209	106 / 225	177 / 375	197 / 418
	SOUND PRESSURE LEVEL (T/H/M/L/Q)		dBA	39 / 38 / 33 / 27 / 25	41 / 40 / 35 / 29 / 28	44 / 42 / 39 / 36 / 34	48 / 46 / 43 / 40 / 37
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	288 X 800 X 206	288 X 800 X 206	310 X 1065 X 224	310 X 1065 X 224
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	344 X 874 X 274	344 X 874 X 274	370 X 1121 X 285	370 X 1121 X 285
	UNIT WEIGHT		kg	9		14	
	CONDENSATE DRAIN SIZE		mm	19.05			
	FAN	TYPE		CROSS FLOW FAN			
		DRIVE		I PHASE SCR			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		20			
		INSULATION GRADE		E			
		RATED INPUT POWER	W	37	42	57	72
		RATED RUNNING CURRENT	A	0.19	0.21	0.27	0.34
		MOTOR OUTPUT	W	18	18	26	30
		POLES		4			
	COIL	TUBE MATERIAL		COPPER			
		TUBE DIAMETER	mm	7.00			
		FIN MATERIAL		ALUMINIUM			
		FIN FACE AREA	m²	0.18	0.18	0.29	0.29
		FIN ROW		2			
	AIR QUALITY	FILTER TYPE		SARANET			
		FILTER QUANTITY	pc	2			
	CASING		COLOUR	WHITE			
OUTDOOR UNIT	AIR FLOW		l/s / CFM	396 / 840	457 / 969	598 / 1268	788 / 1670
	SOUND PRESSURE LEVEL		dBA	46	49	52	52
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	540 X 700 X 250	540 X 700 x 250	651 X 855 X 328	753 X 855 X 328
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	596 X 803 X 323	596 X 803 x 323	693 X 990 X 415	793 X 990 X 415
	UNIT WEIGHT		kg	29	31	47	50
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE LIQUID	mm	6.35	6.35	6.35	6.35
		SIZE GAS	mm	9.52	12.70	12.70	15.88
	FAN	TYPE		PROPPELER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		22	44	23	23
		INSULATION GRADE		B	B	F	F
		RATED INPUT POWER	W	52	59	81	123
		RATED RUNNING CURRENT	A	0.23	0.26	0.36	0.53
		MOTOR OUTPUT	W	21	30	32	60
		POLES		6			
	COMPRESSOR	TYPE		ROTARY			
		OIL TYPE		FV50S	FV50S	FV50S	FV50S
		OIL AMOUNT	cm³	350	350	670	670
		RATED INPUT POWER	W	736	993	1497	1675
		RATED RUNNING CURRENT	A	3.28	4.63	6.56	7.39
		LOCKED ROTOR AMP.	A	17.2	22.0	32.0	32.3
	COIL	TUBE MATERIAL		COPPER			
		TUBE DIAMETER	mm	7.00	9.52	7.00	7.00
		FIN MATERIAL		ALUMINIUM			
		FIN FACE AREA	m²	0.35	0.36	0.50	0.61
		FIN ROW		1	1	2	2
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING
INDOOR: 27°C DB / 19°C WB
OUTDOOR: 35°C DB / 24°C WB

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Engineering Data - R410A MODEL (Cooling Only)

MODEL		**INDOOR UNIT**			**FTN80FXV1**		
		OUTDOOR UNIT			**RR71CXV1**	**RR71CXY1**	
NOMINAL COOLING CAPACITY				**Btu/h**	26000	26000	
				W	7620	7620	
NOMINAL TOTAL INPUT POWER (COOLING)				**W**	2560	2631	
NOMINAL RUNNING CURRENT (COOLING)				**A**	12.20	4.60	
EER				**W/W**	2.98	2.90	
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR CAP TUBE		
REFRIGERANT CHARGE				**kg**	1.80	1.80	
POWER SOURCE				**V/Ph/Hz**	220-240 / 1 / 50	380-415 / 3 / 50	
REFRIGERANT TYPE					R410A		
INDOOR UNIT	**CONTROL**	**AIR DISCHARGE**			AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL		
	AIR FLOW	**HIGH**		**l/s / CFM**	316 / 670		
		MEDIUM		**l/s / CFM**	297 / 630		
		LOW		**l/s / CFM**	236 / 500		
	SOUND PRESSURE LEVEL (H/M/L)			**dBA**	49 / 47 / 45		
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	360 X 1200 X 200		
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	430 X 1267 X 271		
	UNIT WEIGHT			**kg**	17		
	CONDENSATE DRAIN SIZE			**mm**	20		
	FAN	**TYPE**			CROSS FLOW FAN		
		DRIVE			DIRECT		
	FAN MOTOR	**TYPE**			INDUCTION		
		INDEX OF PROTECTION (IP)			20		
		INSULATION GRADE			B		
		RATED INPUT POWER		**W**	61		
		RATED RUNNING CURRENT		**A**	0.27		
		MOTOR OUTPUT		**W**	40		
		POLES			4		
	COIL	**TUBE**	**MATERIAL**		COPPER		
			DIAMETER	**mm**	9.52		
		FIN	**MATERIAL**		ALUMINIUM		
			FACE AREA	**m²**	0.29		
			ROW		2		
	AIR QUALITY	**FILTER**	**TYPE**		SARANET		
			QUANTITY	**pc**	3 X 3		
	CASING			**COLOUR**	LIGHT GREY		
OUTDOOR UNIT	**AIR FLOW**			**l/s / CFM**	684 / 1450	684 / 1450	
	SOUND PRESSURE LEVEL			**dBA**	58	58	
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	753 x 855 x 328	753 x 855 x 328	
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	810 X 990 x 415	810 X 990 x 415	
	UNIT WEIGHT			**kg**	57	57	
	PIPE CONNECTION	**TYPE**			FLARE VALVE		
		SIZE	**LIQUID**	**mm**	9.52	9.52	
			GAS	**mm**	15.88	15.88	
	FAN	**TYPE**			PROPPELER		
		DRIVE			DIRECT		
	FAN MOTOR	**TYPE**			INDUCTION		
		INDEX OF PROTECTION (IP)			23	23	
		INSULATION GRADE			F	F	
		RATED INPUT POWER		**W**	124	124	
		RATED RUNNING CURRENT		**A**	0.79	0.79	
		MOTOR OUTPUT		**W**	75	75	
		POLES			6		
	COMPRESSOR	**TYPE**			ROTARY		
		OIL TYPE			RB68A or FREOL ALPHA68M		
		OIL AMOUNT		**cm³**	1242	1242	
		RATED INPUT POWER		**W**	2370	2565	
		RATED RUNNING CURRENT		**A**	11.4	4.50	
		LOCKED ROTOR AMP.		**A**	65	26	
	COIL	**TUBE**	**MATERIAL**		COPPER		
			DIAMETER	**mm**	7.00	7.00	
		FIN	**MATERIAL**		ALUMINIUM		
			FACE AREA	**m²**	0.62	0.62	
			ROW		2	2	
	CASING			**COLOUR**	LIGHT GREY		

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING
INDOOR: 27°C DB / 19°C WB
OUTDOOR: 35°C DB / 24°C WB

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Engineering Data - R410A MODEL (Heatpump)

MODEL	INDOOR UNIT			FTYN20JXV1	FTYN25JXV1	FTYN35JXV1	FTYN50JXV1
	OUTDOOR UNIT			RYN20CGXV1	RYN25CJXV1	RYN35CJXV1	RYN50CJXV1
NOMINAL COOLING CAPACITY			Btu/h	7300	9040	10750	17900
			W	2140	2650	3150	5250
NOMINAL HEATING CAPACITY			Btu/h	7000	9550	11530	18000
			W	2060	2800	3380	5280
NOMINAL TOTAL INPUT POWER (COOLING)			W	705	825	1094	1635
NOMINAL TOTAL INPUT POWER (HEATING)			W	560	775	988	1490
NOMINAL RUNNING CURRENT (COOLING)			A	3.16	3.70	5.10	7.19
NOMINAL RUNNING CURRENT (HEATING)			A	2.54	3.47	4.70	6.53
EER			W/W	3.04	3.21	2.88	3.21
COP			W/W	3.68	3.61	3.42	3.54
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE			
REFRIGERANT CHARGE			kg	0.65	0.80	0.85	1.45
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50			
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL			
	AIR FLOW	TURBO	l/s / CFM	130 / 275	169 / 358	176 / 372	269 / 570
		HIGH	l/s / CFM	124 / 262	161 / 342	168 / 355	253 / 536
		MEDIUM	l/s / CFM	107 / 227	133 / 282	140 / 298	226 / 478
		LOW	l/s / CFM	92 / 195	106 / 225	114 / 242	200 / 424
		QUIET	l/s / CFM	86 / 182	99 / 209	106 / 225	177 / 375
	SOUND PRESSURE LEVEL (T/H/M/L/Q)		dBA	37 / 36 / 31 / 25 / 24	39 / 38 / 33 / 27 / 25	41 / 40 / 35 / 29 / 28	44 / 42 / 39 / 36 / 34
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	288 X 800 X 206	288 X 800 X 206	288 X 800 X 206	310 X 1065 X 224
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	350 X 874 X 285	344 X 874 X 274	344 X 874 X 274	370 X 1121 X 285
	UNIT WEIGHT		kg	9	9	9	14
	CONDENSATE DRAIN SIZE		mm	19.05			
	FAN	TYPE		CROSS FLOW FAN			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		I PHASE SCR			
		INDEX OF PROTECTION (IP)		20			
		INSULATION GRADE		E			
		RATED INPUT POWER (COOLING)	W	26	37	42	57
		RATED INPUT POWER (HEATING)	W	28			
		RATED RUNNING CURRENT	A	0.19	0.19	0.21	0.27
		MOTOR OUTPUT	W	18	18	18	26
		POLES		4			
	COIL	TUBE MATERIAL		COPPER			
		TUBE DIAMETER	mm	7.00			
		FIN MATERIAL		ALUMINIUM			
		FIN FACE AREA	m²	0.13	0.18	0.18	0.29
		ROW		2			
	AIR QUALITY	FILTER TYPE		SARANET			
		FILTER QUANTITY	pc	2			
	CASING		COLOUR	WHITE			
OUTDOOR UNIT	AIR FLOW		l/s / CFM	297 / 630	396 / 840	457 / 969	618 / 1310
	SOUND PRESSURE LEVEL		dBA	44	46	49	52
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	494 X 600 X 245	540 X 700 X 250	540 X 700 X 250	651 X 855 X 328
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	535 X 721 X 331	596 X 803 X 323	596 X 803 X 323	693 X 990 X 415
	UNIT WEIGHT		kg	24	29	31	47
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE LIQUID	mm	6.35	6.35	6.35	6.35
		SIZE GAS	mm	9.52	9.52	12.70	12.70
	FAN	TYPE		PROPPELER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		23	22	44	23
		INSULATION GRADE		B	B	B	F
		RATED INPUT POWER	W	37	52	59	105
		RATED RUNNING CURRENT	A	0.16	0.23	0.26	0.46
		MOTOR OUTPUT	W	20	21	30	43
		POLES		6			
	COMPRESSOR	TYPE		ROTARY			
		OIL TYPE		RB68A / Freol Alpha68M	FV50S	FV50S	FV50S
		OIL AMOUNT	cm³	300	350	350	670
		RATED INPUT POWER (COOLING)	W	642	736	993	1473
		RATED INPUT POWER (HEATING)	W	495	686	887	1328
		RATED RUNNING CURRENT (COOLING)	A	2.81	3.28	4.63	6.47
		RATED RUNNING CURRENT (HEATING)	A	2.19	3.05	4.23	5.81
		LOCKED ROTOR AMP.	A	12.4	17.2	22.0	32.0
	COIL	TUBE MATERIAL		COPPER			
		TUBE DIAMETER	mm	7.00	7.00	9.52	7.00
		FIN MATERIAL		ALUMINIUM			
		FIN FACE AREA	m²	0.29	0.35	0.36	0.50
		ROW		1	1	1	2
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

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Engineering Data - R410A MODEL (Heatpump)

MODEL			INDOOR UNIT		FTYN60JXV1	FTYN80FXV1	
			OUTDOOR UNIT		RYN60CJXV1	RQ71CXV1	RQ71CXY1
NOMINAL COOLING CAPACITY				Btu/h	20500	26000	26000
				W	6010	7620	7620
NOMINAL HEATING CAPACITY				Btu/h	21000	26000	26000
				W	6150	7620	7620
NOMINAL TOTAL INPUT POWER (COOLING)				W	1870	2560	2631
NOMINAL TOTAL INPUT POWER (HEATING)				W	1800	2442	2294
NOMINAL RUNNING CURRENT (COOLING)				A	8.26	12.2	4.60
NOMINAL RUNNING CURRENT (HEATING)				A	7.99	11.6	4.20
EER				W/W	3.21	2.98	2.90
COP				W/W	3.42	3.12	3.32
REFRIGERANT CONTROL (EXPANSION DEVICE)					OUTDOOR CAP TUBE		
REFRIGERANT CHARGE				kg	1.65	1.80	2.15
POWER SOURCE				V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 3 / 50
REFRIGERANT TYPE					R410A		
INDOOR UNIT	CONTROL	AIR DISCHARGE			AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION			WIRELESS OR WIRED REMOTE CONTROL		
	AIR FLOW	TURBO		l/s / CFM	303 / 641	-	
		HIGH		l/s / CFM	290 / 614	316 / 670	
		MEDIUM		l/s / CFM	253 / 537	297 / 630	
		LOW		l/s / CFM	224 / 474	236 / 500	
		QUIET		l/s / CFM	197 / 418	-	
	SOUND PRESSURE LEVEL (T/H/M/L/Q)			dBA	48 / 46 / 43 / 40 / 37	49 / 47 / 45	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH		mm	310 X 1065 X 224	360 X 1200 X 200	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH		mm	370 X 1121 X 285	430 X 1267 X 271	
	UNIT WEIGHT			kg	14	17	
	CONDENSATE DRAIN SIZE			mm	19.05	20	
	FAN	TYPE			CROSS FLOW FAN		
		DRIVE			DIRECT		
	FAN MOTOR	TYPE			I PHASE SCR	INDUCTION	
		INDEX OF PROTECTION (IP)			20	20	
		INSULATION GRADE			E	B	
		RATED INPUT POWER		W	72	61	
		RATED RUNNING CURRENT		A	0.34	0.27	
		MOTOR OUTPUT		W	30	40	
		POLES			4	4	
	COIL	TUBE	MATERIAL		COPPER		
			DIAMETER	mm	7.00	9.52	
		FIN	MATERIAL		ALUMINIUM		
			FACE AREA	m^2	0.29	0.29	
			ROW		2	2	
	AIR QUALITY	FILTER	TYPE		SARANET		
			QUANTITY	pc	2	3 X 3	
	CASING			COLOUR	WHITE	LIGHT GREY	
OUTDOOR UNIT	AIR FLOW			l/s / CFM	684 / 1450	684 / 1450	684 / 1450
	SOUND PRESSURE LEVEL			dBA	52	58	58
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH		mm	753 X 855 X 328	753 X 855 X 328	753 X 855 X 328
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH		mm	793 X 990 X 415	810 X 990 x 415	810 X 990 x 415
	UNIT WEIGHT			kg	50	57	57
	PIPE CONNECTION	TYPE			FLARE VALVE		
		SIZE	LIQUID	mm	6.35	9.52	9.52
			GAS	mm	15.88	15.88	15.88
	FAN	TYPE			PROPPELER		
		DRIVE			DIRECT		
	FAN MOTOR	TYPE			INDUCTION		
		INDEX OF PROTECTION (IP)			23	23	23
		INSULATION GRADE			F	F	F
		RATED INPUT POWER		W	123	124	124
		RATED RUNNING CURRENT		A	0.54	0.79	0.79
		MOTOR OUTPUT		W	60	75	75
		POLES			6		
	COMPRESSOR	TYPE			ROTARY		
		OIL TYPE			FV50S	RB68A or FREOL ALPHA68M	
		OIL AMOUNT		cm^3	670	1242	1242
		RATED INPUT POWER (COOLING)		W	1675	2375	2446
		RATED INPUT POWER (HEATING)		W	1605	2257	2104
		RATED RUNNING CURRENT (COOLING)		A	7.39	11.1	3.92
		RATED RUNNING CURRENT (HEATING)		A	7.12	10.5	3.41
		LOCKED ROTOR AMP.		A	32.3	65	26
	COIL	TUBE	MATERIAL		COPPER		
			DIAMETER	mm	7.00		
		FIN	MATERIAL		ALUMINIUM		
			FACE AREA	m^2	0.61	0.62	0.62
			ROW		2	2	2
	CASING			COLOUR	LIGHT GREY		

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

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Performance Data

Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

Example:

Model: FTN25JXV1 – RN25CJXV1
Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB
Fan Speed: High

Solution:
Based on the Performance Table,

1. Refer to the Indoor DB column,
   - **25°C** is located between 24°C & 27°C for 16°C WB.
   - **25°C** is located between 24°C & 27°C for 19°C WB.
   - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
   - **17°C** is located between 16°C & 19°C for 25°C DB.
   - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C & 40°C.
   - Thus, Interpolation needs to be applied.

1st Step
Interpolation of Indoor WB
Find TC, SC & PI
(a) Indoor: **25°C DB**, 16°C WB
Outdoor: 35°C DB
(b) Indoor: **25°C DB**, 19°C WB
Outdoor: 35°C DB
(c) Indoor: **25°C DB**, 16°C WB
Outdoor: 40°C DB
(d) Indoor: **25°C DB**, 19°C WB
Outdoor: 40°C DB

⇨

2nd Step
Interpolation of Indoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, **17°C WB**
Outdoor: 35°C DB
(b) Indoor: 25°C DB, **17°C WB**
Outdoor: 40°C DB

⇨

3rd Step
Interpolation of Outdoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, 17°C WB
Outdoor: **37°C DB**

Details of Calculation:

1st Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	24		3.20	3.20	1.27	
	25	------	x_1	y_1	z_1	
	27		3.30	3.30	1.27	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_1 - 3.20kW}{3.30kW - 3.20kW}$$

$\Rightarrow x_1 = 3.23kW$

Similarly,

$y_1 = 3.23kW$

$z_1 = 1.27kW$

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(b) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
19	24		3.51	2.57	1.29	
	25	------	x_2	y_2	z_2	
	27		3.52	2.99	1.29	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_2 - 3.51kW}{3.52kW - 3.51kW}$$

$\Rightarrow x_2 = 3.51kW$

Similarly,

$y_2 = 2.71kW$

$z_2 = 1.29kW$

Repeat the same process for (c) & (d) in 1st Step

(c) $x_3 = 2.98$ kW; $y_3 = 2.98$ kW; $z_3 = 1.38$ kW

(d) $x_4 = 3.22$ W; $y_4 = 2.53$ kW; $z_4 = 1.40$ kW

2nd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	25		3.23	3.23	1.27	
17		------	x_5	y_5	z_5	
19			3.51	2.71	1.29	

By Interpolation Method

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_5 - 3.23kW}{3.51kW - 3.23kW}$$

$\Rightarrow x_5 = 3.32kW$

Similarly,

$y_5 = 3.06kW$

$z_5 = 1.28kW$

Repeat the same process for (b) in 2nd Step

(c) $x_6 = 3.06$ kW; $y_6 = 2.83$ kW; $z_6 = 1.39$ kW

3rd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature								
			35°C			37°C			40°C	
			TC	SC	PI	TC	SC	PI	TC	SC	PI
						⋮	⋮	⋮			
25	17	------	3.32	3.06	1.28	x	y	z	3.06	2.83	1.39

By Interpolation Method

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{x - 3.32kW}{3.06kW - 3.32kW}$$

$\Rightarrow x = 3.22kW$

Similarly,

$y = 2.97kW$

$z = 1.35kW$

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Performance Tables

R410A Cooling Only

Model: FTN25JXV1 - RN25CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
225	16°C	21°C	2.50	1.93	0.63	2.41	1.88	0.68	2.32	1.83	0.73	2.23	1.78	0.80	2.04	1.65	0.86	1.89	1.56	0.95
		24°C	2.50	2.31	0.63	2.41	2.26	0.68	2.32	2.21	0.73	2.23	2.15	0.80	2.05	2.01	0.86	1.90	1.90	0.95
		27°C	2.52	2.52	0.63	2.44	2.44	0.68	2.35	2.35	0.74	2.26	2.26	0.80	2.09	2.09	0.87	1.94	1.94	0.96
		30°C	2.60	2.60	0.63	2.52	2.52	0.68	2.45	2.45	0.74	2.37	2.37	0.80	2.20	2.20	0.87	2.05	2.05	0.97
	19°C	24°C	2.76	1.80	0.64	2.66	1.76	0.69	2.56	1.71	0.75	2.46	1.66	0.81	2.26	1.55	0.88	2.09	1.46	0.97
		27°C	2.76	2.06	0.64	2.66	2.02	0.69	2.56	1.97	0.75	2.46	1.92	0.81	2.26	1.80	0.88	2.09	1.70	0.97
		30°C	2.76	2.55	0.64	2.67	2.49	0.69	2.57	2.44	0.75	2.47	2.38	0.81	2.28	2.22	0.88	2.11	2.10	0.97
		33°C	2.79	2.79	0.64	2.70	2.70	0.69	2.62	2.62	0.75	2.53	2.53	0.81	2.34	2.34	0.88	2.19	2.19	0.98
	22°C	27°C	3.03	1.77	0.65	2.93	1.72	0.70	2.82	1.68	0.76	2.71	1.63	0.83	2.49	1.52	0.90	2.31	1.43	0.99
		30°C	3.03	2.15	0.65	2.93	2.11	0.70	2.82	2.06	0.76	2.71	2.01	0.83	2.49	1.88	0.90	2.31	1.78	0.99
		33°C	3.03	2.51	0.65	2.93	2.46	0.70	2.82	2.42	0.76	2.71	2.37	0.83	2.50	2.22	0.90	2.31	2.11	0.99
		36°C	3.04	2.85	0.65	2.94	2.79	0.70	2.84	2.73	0.76	2.74	2.67	0.83	2.52	2.51	0.90	2.35	2.35	0.99
282	16°C	21°C	2.60	2.02	0.63	2.51	1.96	0.68	2.41	1.91	0.74	2.31	1.86	0.80	2.12	1.73	0.87	1.96	1.63	0.96
		24°C	2.61	2.45	0.63	2.51	2.39	0.68	2.42	2.33	0.74	2.32	2.27	0.80	2.13	2.12	0.87	1.97	1.97	0.96
		27°C	2.64	2.64	0.63	2.55	2.55	0.69	2.46	2.46	0.74	2.37	2.37	0.81	2.19	2.19	0.88	2.04	2.04	0.97
		30°C	2.75	2.75	0.64	2.67	2.67	0.69	2.59	2.59	0.75	2.50	2.50	0.81	2.32	2.32	0.88	2.17	2.17	0.98
	19°C	24°C	2.86	1.91	0.64	2.76	1.86	0.70	2.66	1.81	0.75	2.55	1.76	0.82	2.34	1.64	0.89	2.16	1.55	0.98
		27°C	2.87	2.20	0.64	2.77	2.15	0.70	2.66	2.10	0.75	2.56	2.05	0.82	2.35	1.92	0.89	2.17	1.81	0.98
		30°C	2.88	2.71	0.64	2.78	2.65	0.70	2.68	2.59	0.76	2.58	2.53	0.82	2.38	2.36	0.89	2.20	2.20	0.98
		33°C	2.93	2.93	0.65	2.84	2.84	0.70	2.75	2.75	0.76	2.66	2.66	0.82	2.46	2.46	0.90	2.30	2.30	0.99
	22°C	27°C	3.15	1.87	0.65	3.04	1.82	0.71	2.92	1.78	0.77	2.81	1.73	0.83	2.58	1.61	0.90	2.39	1.52	1.00
		30°C	3.15	2.29	0.65	3.04	2.24	0.71	2.93	2.19	0.77	2.81	2.14	0.83	2.58	2.01	0.90	2.39	1.90	1.00
		33°C	3.16	2.68	0.66	3.05	2.63	0.71	2.93	2.58	0.77	2.82	2.52	0.83	2.59	2.37	0.91	2.40	2.25	1.00
		36°C	3.18	3.03	0.66	3.07	2.98	0.71	2.97	2.92	0.77	2.86	2.85	0.84	2.64	2.64	0.91	2.46	2.46	1.00
342	16°C	21°C	2.70	2.10	0.64	2.60	2.05	0.69	2.50	2.00	0.75	2.39	1.94	0.81	2.20	1.81	0.88	2.02	1.70	0.97
		24°C	2.71	2.56	0.64	2.61	2.50	0.69	2.51	2.43	0.75	2.41	2.37	0.81	2.22	2.21	0.88	2.05	2.05	0.97
		27°C	2.75	2.75	0.64	2.66	2.66	0.69	2.57	2.57	0.75	2.48	2.48	0.81	2.29	2.29	0.88	2.14	2.14	0.98
		30°C	2.89	2.89	0.65	2.81	2.81	0.70	2.72	2.72	0.76	2.63	2.63	0.82	2.44	2.44	0.90	2.28	2.28	0.99
	19°C	24°C	2.97	2.02	0.65	2.86	1.97	0.70	2.75	1.92	0.76	2.64	1.87	0.82	2.42	1.74	0.89	2.24	1.64	0.98
		27°C	2.98	2.33	0.65	2.87	2.28	0.70	2.76	2.23	0.76	2.65	2.17	0.83	2.43	2.03	0.89	2.25	1.92	0.99
		30°C	3.00	2.87	0.65	2.89	2.81	0.70	2.79	2.75	0.76	2.68	2.68	0.83	2.47	2.47	0.90	2.29	2.29	0.99
		33°C	3.07	3.07	0.65	2.98	2.98	0.71	2.88	2.88	0.77	2.79	2.79	0.83	2.58	2.58	0.91	2.42	2.42	1.00
	22°C	27°C	3.26	1.97	0.66	3.14	1.93	0.72	3.02	1.88	0.78	2.90	1.83	0.84	2.66	1.71	0.91	2.46	1.61	1.00
		30°C	3.26	2.43	0.66	3.15	2.39	0.72	3.03	2.34	0.78	2.91	2.28	0.84	2.67	2.14	0.91	2.47	2.03	1.00
		33°C	3.27	2.85	0.66	3.16	2.80	0.72	3.04	2.74	0.78	2.93	2.68	0.84	2.69	2.51	0.91	2.49	2.39	1.01
		36°C	3.30	3.22	0.66	3.20	3.16	0.72	3.09	3.09	0.78	2.98	2.98	0.85	2.75	2.75	0.92	2.57	2.57	1.01

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

DAIKIN_FT(Y)N.indb 21 1/8/2013 10:44:17 AM

Model: FTN35JXV1 - RN35CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
242	16°C	21°C	2.97	2.18	0.83	2.86	2.13	0.90	2.76	2.07	0.97	2.65	2.01	1.06	2.43	1.87	1.15	2.24	1.76	1.26
		24°C	2.97	2.62	0.83	2.87	2.56	0.90	2.76	2.50	0.97	2.65	2.43	1.06	2.44	2.27	1.15	2.25	2.15	1.26
		27°C	3.00	2.97	0.83	2.90	2.90	0.90	2.80	2.80	0.98	2.69	2.69	1.06	2.48	2.48	1.15	2.31	2.31	1.27
		30°C	3.09	3.09	0.84	3.00	3.00	0.91	2.91	2.91	0.98	2.82	2.82	1.07	2.61	2.61	1.16	2.44	2.44	1.28
	19°C	24°C	3.28	2.04	0.84	3.16	1.99	0.91	3.04	1.94	0.99	2.92	1.88	1.07	2.69	1.75	1.17	2.48	1.65	1.28
		27°C	3.28	2.33	0.84	3.16	2.28	0.91	3.05	2.23	0.99	2.93	2.17	1.07	2.69	2.03	1.17	2.49	1.93	1.28
		30°C	3.28	2.88	0.84	3.17	2.82	0.91	3.06	2.76	0.99	2.94	2.69	1.08	2.71	2.52	1.17	2.51	2.38	1.29
		33°C	3.32	3.32	0.85	3.21	3.21	0.92	3.11	3.11	0.99	3.00	3.00	1.08	2.78	2.78	1.17	2.60	2.60	1.29
	22°C	27°C	3.60	2.00	0.86	3.48	1.95	0.93	3.35	1.90	1.01	3.22	1.85	1.10	2.96	1.72	1.19	2.74	1.62	1.31
		30°C	3.60	2.43	0.86	3.48	2.38	0.93	3.35	2.33	1.01	3.22	2.27	1.10	2.96	2.13	1.19	2.74	2.02	1.31
		33°C	3.61	2.84	0.86	3.48	2.79	0.93	3.35	2.73	1.01	3.22	2.68	1.10	2.97	2.51	1.19	2.75	2.39	1.31
		36°C	3.62	3.22	0.86	3.50	3.16	0.93	3.38	3.09	1.01	3.25	3.02	1.10	3.00	2.83	1.19	2.79	2.69	1.31
298	16°C	21°C	3.09	2.28	0.84	2.98	2.22	0.91	2.87	2.16	0.98	2.75	2.10	1.06	2.52	1.96	1.16	2.33	1.84	1.27
		24°C	3.10	2.77	0.84	2.99	2.70	0.91	2.88	2.64	0.98	2.76	2.57	1.07	2.54	2.40	1.16	2.34	2.26	1.27
		27°C	3.14	3.14	0.84	3.03	3.03	0.91	2.93	2.93	0.99	2.82	2.82	1.07	2.61	2.61	1.16	2.43	2.43	1.28
		30°C	3.27	3.27	0.85	3.17	3.17	0.92	3.08	3.08	0.99	2.98	2.98	1.08	2.76	2.76	1.17	2.58	2.58	1.30
	19°C	24°C	3.40	2.16	0.85	3.28	2.10	0.92	3.16	2.05	1.00	3.03	1.99	1.08	2.79	1.86	1.18	2.57	1.75	1.30
		27°C	3.41	2.48	0.85	3.29	2.43	0.92	3.17	2.37	1.00	3.04	2.32	1.08	2.79	2.17	1.18	2.58	2.05	1.30
		30°C	3.43	3.06	0.85	3.31	3.00	0.92	3.19	2.93	1.00	3.07	2.86	1.09	2.82	2.67	1.18	2.62	2.53	1.30
		33°C	3.48	3.48	0.86	3.38	3.38	0.93	3.27	3.27	1.01	3.16	3.16	1.09	2.93	2.93	1.19	2.74	2.74	1.31
	22°C	27°C	3.74	2.11	0.87	3.61	2.06	0.94	3.47	2.01	1.02	3.34	1.96	1.11	3.07	1.82	1.20	2.84	1.72	1.32
		30°C	3.75	2.59	0.87	3.61	2.54	0.94	3.48	2.48	1.02	3.34	2.42	1.11	3.07	2.27	1.20	2.84	2.15	1.32
		33°C	3.75	3.04	0.87	3.62	2.98	0.94	3.49	2.92	1.02	3.35	2.85	1.11	3.08	2.68	1.20	2.86	2.54	1.32
		36°C	3.77	3.43	0.87	3.65	3.37	0.94	3.53	3.30	1.02	3.40	3.22	1.11	3.13	3.01	1.20	2.92	2.84	1.33
355	16°C	21°C	3.20	2.38	0.85	3.09	2.32	0.91	2.97	2.26	0.99	2.85	2.19	1.07	2.61	2.04	1.16	2.41	1.92	1.28
		24°C	3.22	2.89	0.85	3.10	2.82	0.92	2.99	2.75	0.99	2.87	2.68	1.08	2.63	2.50	1.17	2.43	2.36	1.29
		27°C	3.27	3.27	0.85	3.17	3.17	0.92	3.06	3.06	1.00	2.95	2.95	1.08	2.73	2.73	1.17	2.54	2.54	1.29
		30°C	3.44	3.44	0.86	3.34	3.34	0.93	3.23	3.23	1.01	3.13	3.13	1.09	2.90	2.90	1.19	2.70	2.70	1.31
	19°C	24°C	3.53	2.28	0.86	3.40	2.22	0.93	3.27	2.17	1.01	3.14	2.11	1.09	2.88	1.97	1.19	2.66	1.85	1.31
		27°C	3.54	2.64	0.86	3.41	2.58	0.93	3.28	2.52	1.01	3.15	2.46	1.09	2.89	2.30	1.19	2.67	2.17	1.31
		30°C	3.57	3.25	0.86	3.44	3.18	0.93	3.32	3.10	1.01	3.19	3.03	1.10	2.94	2.83	1.19	2.73	2.66	1.31
		33°C	3.64	3.64	0.87	3.54	3.54	0.94	3.43	3.43	1.02	3.32	3.32	1.11	3.07	3.07	1.20	2.87	2.87	1.33
	22°C	27°C	3.87	2.23	0.88	3.73	2.18	0.95	3.59	2.13	1.03	3.45	2.07	1.11	3.17	1.93	1.21	2.93	1.83	1.33
		30°C	3.88	2.75	0.88	3.74	2.70	0.95	3.60	2.64	1.03	3.46	2.58	1.12	3.17	2.42	1.21	2.94	2.29	1.33
		33°C	3.89	3.22	0.88	3.76	3.17	0.95	3.62	3.10	1.03	3.48	3.03	1.12	3.20	2.84	1.21	2.96	2.70	1.33
		36°C	3.93	3.64	0.88	3.80	3.57	0.95	3.67	3.50	1.03	3.54	3.41	1.12	3.27	3.18	1.22	3.05	2.99	1.34

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FTN50JXV1 - RN50CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
424	16°C	21°C	4.95	3.55	1.24	4.78	3.46	1.34	4.60	3.36	1.46	4.41	3.27	1.58	4.05	3.04	1.71	3.74	2.86	1.89
		24°C	4.96	4.25	1.24	4.78	4.15	1.34	4.60	4.06	1.46	4.42	3.96	1.58	4.06	3.69	1.71	3.76	3.49	1.89
		27°C	5.00	4.82	1.24	4.83	4.71	1.35	4.66	4.60	1.46	4.48	4.48	1.58	4.14	4.14	1.72	3.85	3.85	1.89
		30°C	5.15	5.15	1.25	5.00	5.00	1.35	4.85	4.85	1.47	4.69	4.69	1.59	4.35	4.35	1.73	4.07	4.07	1.91
	19°C	24°C	5.46	3.31	1.26	5.27	3.23	1.37	5.08	3.14	1.48	4.87	3.06	1.61	4.48	2.85	1.74	4.14	2.68	1.92
		27°C	5.46	3.79	1.26	5.27	3.71	1.37	5.08	3.62	1.48	4.88	3.53	1.61	4.48	3.31	1.74	4.15	3.13	1.92
		30°C	5.47	4.68	1.26	5.28	4.58	1.37	5.10	4.48	1.48	4.90	4.37	1.61	4.52	4.09	1.74	4.19	3.87	1.92
		33°C	5.54	5.54	1.27	5.36	5.36	1.37	5.18	5.18	1.49	5.01	5.01	1.61	4.63	4.63	1.75	4.33	4.33	1.94
	22°C	27°C	6.01	3.24	1.28	5.80	3.17	1.39	5.59	3.09	1.51	5.37	3.00	1.64	4.94	2.80	1.78	4.57	2.64	1.96
		30°C	6.01	3.95	1.28	5.80	3.87	1.39	5.59	3.78	1.51	5.37	3.69	1.64	4.94	3.46	1.78	4.57	3.28	1.96
		33°C	6.01	4.62	1.29	5.80	4.53	1.39	5.59	4.44	1.51	5.37	4.35	1.64	4.95	4.08	1.78	4.58	3.88	1.96
		36°C	6.03	5.24	1.29	5.83	5.13	1.39	5.63	5.02	1.51	5.43	4.91	1.64	5.00	4.61	1.78	4.65	4.37	1.96
478	16°C	21°C	5.15	3.70	1.25	4.96	3.61	1.36	4.78	3.51	1.47	4.58	3.41	1.59	4.20	3.18	1.73	3.88	2.99	1.90
		24°C	5.17	4.49	1.25	4.98	4.39	1.36	4.79	4.28	1.47	4.60	4.18	1.59	4.23	3.90	1.73	3.91	3.68	1.90
		27°C	5.23	5.10	1.26	5.05	4.98	1.36	4.88	4.86	1.47	4.70	4.70	1.60	4.34	4.34	1.74	4.05	4.05	1.92
		30°C	5.45	5.45	1.27	5.29	5.29	1.37	5.13	5.13	1.49	4.96	4.96	1.61	4.60	4.60	1.75	4.30	4.30	1.94
	19°C	24°C	5.67	3.50	1.27	5.47	3.41	1.38	5.27	3.32	1.49	5.06	3.23	1.62	4.64	3.01	1.76	4.29	2.84	1.94
		27°C	5.68	4.03	1.27	5.48	3.94	1.38	5.28	3.86	1.49	5.06	3.76	1.62	4.65	3.52	1.76	4.30	3.33	1.94
		30°C	5.71	4.98	1.28	5.51	4.87	1.38	5.32	4.76	1.50	5.11	4.64	1.62	4.71	4.34	1.76	4.37	4.10	1.94
		33°C	5.81	5.81	1.28	5.63	5.63	1.39	5.45	5.45	1.50	5.27	5.27	1.63	4.88	4.88	1.77	4.56	4.56	1.96
	22°C	27°C	6.23	3.43	1.30	6.02	3.35	1.41	5.79	3.26	1.52	5.56	3.18	1.65	5.11	2.96	1.79	4.73	2.79	1.97
		30°C	6.24	4.21	1.30	6.02	4.12	1.41	5.80	4.03	1.52	5.57	3.93	1.65	5.12	3.68	1.79	4.73	3.50	1.97
		33°C	6.25	4.93	1.30	6.04	4.84	1.41	5.81	4.74	1.53	5.59	4.64	1.65	5.14	4.35	1.79	4.76	4.13	1.98
		36°C	6.29	5.57	1.30	6.09	5.47	1.41	5.88	5.35	1.53	5.66	5.23	1.66	5.22	4.89	1.80	4.87	4.62	1.99
536	16°C	21°C	5.34	3.86	1.26	5.15	3.76	1.37	4.95	3.67	1.48	4.74	3.56	1.60	4.35	3.32	1.74	4.01	3.12	1.92
		24°C	5.37	4.69	1.27	5.17	4.58	1.37	4.98	4.47	1.48	4.78	4.35	1.61	4.39	4.06	1.74	4.05	3.83	1.92
		27°C	5.46	5.38	1.27	5.28	5.24	1.37	5.10	5.09	1.49	4.92	4.92	1.61	4.54	4.54	1.75	4.23	4.23	1.94
		30°C	5.73	5.73	1.28	5.56	5.56	1.39	5.39	5.39	1.50	5.21	5.21	1.63	4.83	4.83	1.77	4.51	4.51	1.96
	19°C	24°C	5.88	3.70	1.28	5.67	3.61	1.39	5.45	3.52	1.51	5.23	3.43	1.63	4.80	3.19	1.77	4.43	3.01	1.95
		27°C	5.90	4.29	1.29	5.68	4.19	1.39	5.47	4.09	1.51	5.25	3.99	1.64	4.82	3.73	1.77	4.46	3.53	1.95
		30°C	5.94	5.27	1.29	5.73	5.16	1.39	5.53	5.04	1.51	5.32	4.92	1.64	4.90	4.59	1.78	4.54	4.33	1.96
		33°C	6.07	6.07	1.29	5.90	5.90	1.40	5.71	5.71	1.52	5.53	5.53	1.65	5.12	5.12	1.80	4.79	4.79	1.98
	22°C	27°C	6.45	3.62	1.31	6.22	3.54	1.42	5.99	3.46	1.54	5.75	3.36	1.67	5.28	3.14	1.81	4.88	2.96	1.99
		30°C	6.46	4.47	1.31	6.23	4.38	1.42	6.00	4.29	1.54	5.76	4.19	1.67	5.29	3.92	1.81	4.89	3.72	1.99
		33°C	6.49	5.24	1.31	6.26	5.14	1.42	6.03	5.04	1.54	5.79	4.93	1.67	5.33	4.62	1.81	4.94	4.38	2.00
		36°C	6.54	5.91	1.31	6.34	5.80	1.42	6.12	5.68	1.54	5.90	5.54	1.68	5.45	5.16	1.82	5.09	4.86	2.01

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

DAIKIN_FT(Y)N.indb 23 1/8/2013 10:44:18 AM

Model: FTN60JXV1 - RN60CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
474	16°C	21°C	5.67	3.96	1.42	5.47	3.85	1.54	5.26	3.75	1.66	5.05	3.64	1.80	4.64	3.39	1.96	4.28	3.19	2.16
		24°C	5.67	4.74	1.42	5.47	4.63	1.54	5.27	4.52	1.66	5.06	4.41	1.81	4.65	4.12	1.96	4.30	3.89	2.16
		27°C	5.72	5.37	1.42	5.53	5.25	1.54	5.33	5.13	1.67	5.13	4.99	1.81	4.74	4.65	1.96	4.41	4.36	2.17
		30°C	5.90	5.90	1.43	5.73	5.73	1.55	5.55	5.55	1.68	5.37	5.37	1.82	4.98	4.98	1.98	4.66	4.66	2.19
	19°C	24°C	6.25	3.69	1.44	6.03	3.60	1.56	5.81	3.50	1.69	5.58	3.41	1.84	5.13	3.17	1.99	4.74	2.99	2.20
		27°C	6.26	4.23	1.44	6.03	4.13	1.56	5.81	4.04	1.69	5.58	3.94	1.84	5.13	3.68	1.99	4.75	3.49	2.20
		30°C	6.26	5.22	1.44	6.05	5.10	1.56	5.83	4.99	1.69	5.61	4.87	1.84	5.17	4.56	1.99	4.79	4.31	2.20
		33°C	6.34	6.34	1.45	6.13	6.13	1.57	5.93	5.93	1.70	5.73	5.73	1.85	5.30	5.30	2.00	4.96	4.96	2.21
	22°C	27°C	6.88	3.62	1.47	6.64	3.53	1.59	6.40	3.44	1.73	6.15	3.34	1.87	5.65	3.12	2.03	5.23	2.94	2.24
		30°C	6.88	4.41	1.47	6.64	4.31	1.59	6.40	4.21	1.73	6.15	4.11	1.87	5.65	3.85	2.03	5.23	3.65	2.24
		33°C	6.88	5.15	1.47	6.64	5.05	1.59	6.40	4.95	1.73	6.15	4.85	1.87	5.66	4.55	2.03	5.25	4.32	2.24
		36°C	6.91	5.83	1.47	6.68	5.72	1.59	6.45	5.60	1.73	6.21	5.48	1.88	5.73	5.13	2.04	5.33	4.87	2.24
537	16°C	21°C	5.90	4.13	1.43	5.68	4.02	1.55	5.47	3.91	1.68	5.24	3.80	1.82	4.81	3.54	1.97	4.44	3.33	2.18
		24°C	5.91	5.01	1.43	5.70	4.89	1.55	5.49	4.77	1.68	5.27	4.65	1.82	4.84	4.34	1.98	4.47	4.10	2.18
		27°C	5.98	5.69	1.44	5.78	5.56	1.56	5.58	5.41	1.69	5.38	5.25	1.83	4.97	4.88	1.99	4.63	4.56	2.19
		30°C	6.23	6.23	1.45	6.05	6.05	1.57	5.87	5.87	1.70	5.68	5.68	1.85	5.26	5.26	2.01	4.92	4.92	2.21
	19°C	24°C	6.50	3.90	1.46	6.26	3.81	1.58	6.03	3.71	1.71	5.79	3.60	1.85	5.31	3.36	2.01	4.91	3.17	2.21
		27°C	6.51	4.50	1.46	6.27	4.40	1.58	6.04	4.30	1.71	5.80	4.19	1.85	5.33	3.92	2.01	4.92	3.71	2.22
		30°C	6.54	5.55	1.46	6.31	5.43	1.58	6.08	5.30	1.71	5.85	5.17	1.86	5.39	4.84	2.01	5.00	4.57	2.22
		33°C	6.65	6.65	1.46	6.44	6.44	1.59	6.24	6.24	1.72	6.03	6.03	1.87	5.59	5.59	2.03	5.22	5.22	2.24
	22°C	27°C	7.14	3.82	1.48	6.89	3.73	1.61	6.63	3.64	1.74	6.37	3.54	1.89	5.85	3.30	2.05	5.41	3.11	2.26
		30°C	7.15	4.69	1.48	6.89	4.59	1.61	6.64	4.49	1.74	6.37	4.39	1.89	5.86	4.11	2.05	5.42	3.90	2.26
		33°C	7.16	5.49	1.48	6.91	5.39	1.61	6.66	5.28	1.74	6.39	5.17	1.89	5.88	4.85	2.05	5.45	4.60	2.26
		36°C	7.20	6.21	1.49	6.97	6.09	1.61	6.73	5.97	1.75	6.48	5.83	1.90	5.98	5.45	2.06	5.58	5.15	2.27
614	16°C	21°C	6.11	4.31	1.45	5.89	4.20	1.56	5.66	4.09	1.69	5.43	3.97	1.83	4.98	3.70	1.99	4.59	3.48	2.19
		24°C	6.15	5.23	1.45	5.92	5.11	1.57	5.70	4.98	1.70	5.47	4.85	1.84	5.02	4.53	1.99	4.64	4.27	2.20
		27°C	6.25	5.99	1.45	6.04	5.84	1.57	5.84	5.68	1.70	5.63	5.50	1.85	5.20	5.10	2.01	4.85	4.76	2.21
		30°C	6.56	6.56	1.46	6.37	6.37	1.59	6.17	6.17	1.72	5.97	5.97	1.87	5.53	5.53	2.03	5.16	5.16	2.24
	19°C	24°C	6.73	4.13	1.47	6.49	4.03	1.59	6.24	3.92	1.72	5.99	3.82	1.87	5.49	3.56	2.03	5.07	3.36	2.23
		27°C	6.75	4.78	1.47	6.51	4.67	1.59	6.26	4.56	1.72	6.01	4.45	1.87	5.52	4.16	2.03	5.10	3.93	2.23
		30°C	6.81	5.88	1.47	6.56	5.75	1.59	6.33	5.62	1.73	6.09	5.48	1.87	5.60	5.12	2.03	5.20	4.82	2.24
		33°C	6.95	6.95	1.48	6.75	6.75	1.60	6.54	6.54	1.74	6.33	6.33	1.89	5.86	5.86	2.05	5.48	5.48	2.27
	22°C	27°C	7.38	4.04	1.50	7.12	3.95	1.62	6.85	3.85	1.76	6.58	3.75	1.91	6.04	3.50	2.07	5.58	3.30	2.28
		30°C	7.40	4.98	1.50	7.14	4.89	1.62	6.87	4.78	1.76	6.59	4.67	1.91	6.06	4.37	2.07	5.60	4.15	2.28
		33°C	7.43	5.84	1.50	7.17	5.73	1.62	6.91	5.61	1.76	6.63	5.49	1.91	6.10	5.15	2.07	5.65	4.88	2.28
		36°C	7.49	6.59	1.50	7.26	6.47	1.63	7.01	6.33	1.77	6.75	6.17	1.92	6.24	5.76	2.08	5.82	5.42	2.30

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FTN80FXV1 - RR71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
500	16°C	21°C	7.18	4.68	1.95	6.93	4.55	2.10	6.67	4.43	2.28	6.40	4.30	2.47	5.88	4.01	2.68	5.43	3.77	2.95
		24°C	7.19	5.60	1.95	6.94	5.47	2.10	6.68	5.34	2.28	6.41	5.21	2.47	5.89	4.87	2.68	5.45	4.59	2.96
		27°C	7.25	6.35	1.95	7.01	6.21	2.11	6.76	6.06	2.28	6.51	5.90	2.48	6.01	5.49	2.69	5.59	5.16	2.97
		30°C	7.47	7.47	1.96	7.26	7.26	2.12	7.04	7.04	2.30	6.81	6.81	2.50	6.32	6.32	2.71	5.91	5.91	3.00
	19°C	24°C	7.92	4.37	1.98	7.65	4.26	2.14	7.37	4.14	2.32	7.07	4.03	2.51	6.50	3.75	2.73	6.01	3.53	3.01
		27°C	7.93	5.00	1.98	7.65	4.88	2.14	7.37	4.77	2.32	7.08	4.66	2.51	6.51	4.35	2.73	6.02	4.13	3.01
		30°C	7.94	6.16	1.98	7.67	6.03	2.14	7.40	5.90	2.32	7.12	5.76	2.52	6.55	5.38	2.73	6.08	5.10	3.01
		33°C	8.04	8.04	1.98	7.77	7.77	2.15	7.52	7.52	2.33	7.27	7.27	2.53	6.72	6.72	2.74	6.29	6.29	3.03
	22°C	27°C	8.72	4.27	2.01	8.42	4.17	2.18	8.11	4.07	2.36	7.79	3.95	2.56	7.17	3.68	2.78	6.63	3.47	3.06
		30°C	8.72	5.21	2.01	8.42	5.10	2.18	8.11	4.98	2.36	7.79	4.86	2.56	7.17	4.55	2.78	6.64	4.32	3.06
		33°C	8.73	6.08	2.01	8.42	5.97	2.18	8.12	5.85	2.36	7.80	5.73	2.56	7.18	5.38	2.78	6.65	5.11	3.07
		36°C	8.75	6.90	2.01	8.47	6.76	2.18	8.17	6.62	2.37	7.87	6.47	2.57	7.26	6.07	2.79	6.75	5.76	3.07
630	16°C	21°C	7.48	4.88	1.96	7.21	4.75	2.12	6.93	4.63	2.30	6.65	4.50	2.49	6.10	4.19	2.70	5.63	3.94	2.98
		24°C	7.50	5.92	1.96	7.23	5.78	2.12	6.96	5.64	2.30	6.68	5.50	2.49	6.13	5.13	2.71	5.67	4.85	2.98
		27°C	7.59	6.73	1.97	7.33	6.57	2.13	7.08	6.40	2.31	6.83	6.21	2.50	6.30	5.77	2.72	5.87	5.39	3.00
		30°C	7.91	7.91	1.98	7.68	7.68	2.15	7.44	7.44	2.33	7.20	7.20	2.53	6.67	6.67	2.75	6.24	6.24	3.03
	19°C	24°C	8.24	4.62	1.99	7.94	4.50	2.16	7.65	4.38	2.34	7.34	4.26	2.54	6.74	3.97	2.75	6.23	3.74	3.03
		27°C	8.25	5.32	2.00	7.96	5.20	2.16	7.66	5.08	2.34	7.35	4.96	2.54	6.75	4.64	2.75	6.24	4.39	3.03
		30°C	8.29	6.56	2.00	8.00	6.42	2.16	7.72	6.27	2.34	7.42	6.12	2.54	6.83	5.72	2.76	6.34	5.41	3.04
		33°C	8.43	8.43	2.00	8.17	8.17	2.17	7.91	7.91	2.36	7.65	7.65	2.56	7.08	7.08	2.78	6.62	6.62	3.07
	22°C	27°C	9.05	4.52	2.03	8.73	4.41	2.20	8.41	4.30	2.39	8.07	4.18	2.59	7.42	3.90	2.81	6.86	3.68	3.09
		30°C	9.06	5.54	2.03	8.74	5.43	2.20	8.42	5.31	2.39	8.08	5.19	2.59	7.43	4.86	2.81	6.87	4.61	3.09
		33°C	9.08	6.50	2.03	8.76	6.37	2.20	8.44	6.24	2.39	8.11	6.11	2.59	7.46	5.73	2.81	6.91	5.44	3.10
		36°C	9.13	7.35	2.04	8.84	7.21	2.21	8.53	7.06	2.39	8.22	6.89	2.60	7.58	6.45	2.82	7.07	6.08	3.11
670	16°C	21°C	7.75	5.09	1.98	7.47	4.96	2.14	7.18	4.83	2.32	6.88	4.69	2.51	6.31	4.37	2.72	5.82	4.11	3.00
		24°C	7.79	6.18	1.98	7.51	6.04	2.14	7.23	5.89	2.32	6.94	5.74	2.52	6.37	5.35	2.73	5.88	5.05	3.01
		27°C	7.92	7.09	1.99	7.66	6.90	2.15	7.40	6.71	2.33	7.14	6.50	2.53	6.59	6.02	2.75	6.14	5.62	3.03
		30°C	8.31	8.31	2.00	8.07	8.07	2.17	7.82	7.82	2.35	7.57	7.57	2.56	7.01	7.01	2.78	6.54	6.54	3.07
	19°C	24°C	8.53	4.88	2.01	8.22	4.76	2.18	7.91	4.64	2.36	7.59	4.51	2.56	6.96	4.21	2.77	6.43	3.97	3.06
		27°C	8.56	5.65	2.01	8.25	5.52	2.18	7.94	5.39	2.36	7.62	5.26	2.56	7.00	4.92	2.78	6.47	4.65	3.06
		30°C	8.63	6.95	2.02	8.32	6.80	2.18	8.02	6.64	2.37	7.72	6.48	2.57	7.11	6.05	2.78	6.60	5.70	3.07
		33°C	8.82	8.82	2.03	8.56	8.56	2.20	8.29	8.29	2.38	8.02	8.02	2.59	7.43	7.43	2.81	6.95	6.95	3.10
	22°C	27°C	9.36	4.78	2.05	9.03	4.67	2.22	8.69	4.55	2.41	8.34	4.43	2.61	7.66	4.14	2.83	7.08	3.91	3.11
		30°C	9.38	5.89	2.05	9.05	5.78	2.22	8.71	5.65	2.41	8.36	5.52	2.61	7.68	5.17	2.83	7.10	4.90	3.12
		33°C	9.41	6.90	2.05	9.09	6.78	2.22	8.75	6.64	2.41	8.41	6.49	2.61	7.74	6.08	2.84	7.17	5.77	3.12
		36°C	9.50	7.79	2.06	9.20	7.65	2.23	8.88	7.48	2.42	8.56	7.30	2.63	7.91	6.81	2.85	7.38	6.41	3.14

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FTN80FXV1 - RR71CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
500	16°C	21°C	7.18	4.68	2.00	6.93	4.55	2.16	6.67	4.43	2.34	6.40	4.30	2.54	5.88	4.01	2.75	5.43	3.77	3.04
		24°C	7.19	5.60	2.00	6.94	5.47	2.16	6.68	5.34	2.34	6.41	5.21	2.54	5.89	4.87	2.76	5.45	4.59	3.04
		27°C	7.25	6.35	2.00	7.01	6.21	2.17	6.76	6.06	2.35	6.51	5.90	2.55	6.01	5.49	2.76	5.59	5.16	3.05
		30°C	7.47	7.47	2.01	7.26	7.26	2.18	7.04	7.04	2.36	6.81	6.81	2.57	6.32	6.32	2.79	5.91	5.91	3.08
	19°C	24°C	7.92	4.37	2.03	7.65	4.26	2.20	7.37	4.14	2.38	7.07	4.03	2.58	6.50	3.75	2.80	6.01	3.53	3.09
		27°C	7.93	5.00	2.03	7.65	4.88	2.20	7.37	4.77	2.38	7.08	4.66	2.58	6.51	4.35	2.80	6.02	4.13	3.09
		30°C	7.94	6.16	2.03	7.67	6.03	2.20	7.40	5.90	2.38	7.12	5.76	2.59	6.55	5.38	2.81	6.08	5.10	3.09
		33°C	8.04	8.04	2.04	7.77	7.77	2.21	7.52	7.52	2.39	7.27	7.27	2.60	6.72	6.72	2.82	6.29	6.29	3.11
	22°C	27°C	8.72	4.27	2.07	8.42	4.17	2.24	8.11	4.07	2.43	7.79	3.95	2.63	7.17	3.68	2.86	6.63	3.47	3.15
		30°C	8.72	5.21	2.07	8.42	5.10	2.24	8.11	4.98	2.43	7.79	4.86	2.63	7.17	4.55	2.86	6.64	4.32	3.15
		33°C	8.73	6.08	2.07	8.42	5.97	2.24	8.12	5.85	2.43	7.80	5.73	2.63	7.18	5.38	2.86	6.65	5.11	3.15
		36°C	8.75	6.90	2.07	8.47	6.76	2.24	8.17	6.62	2.43	7.87	6.47	2.64	7.26	6.07	2.86	6.75	5.76	3.16
630	16°C	21°C	7.48	4.88	2.02	7.21	4.75	2.18	6.93	4.63	2.36	6.65	4.50	2.56	6.10	4.19	2.78	5.63	3.94	3.06
		24°C	7.50	5.92	2.02	7.23	5.78	2.18	6.96	5.64	2.36	6.68	5.50	2.56	6.13	5.13	2.78	5.67	4.85	3.07
		27°C	7.59	6.73	2.02	7.33	6.57	2.19	7.08	6.40	2.37	6.83	6.21	2.57	6.30	5.77	2.79	5.87	5.39	3.08
		30°C	7.91	7.91	2.04	7.68	7.68	2.21	7.44	7.44	2.39	7.20	7.20	2.60	6.67	6.67	2.82	6.24	6.24	3.12
	19°C	24°C	8.24	4.62	2.05	7.94	4.50	2.22	7.65	4.38	2.40	7.34	4.26	2.61	6.74	3.97	2.83	6.23	3.74	3.12
		27°C	8.25	5.32	2.05	7.96	5.20	2.22	7.66	5.08	2.40	7.35	4.96	2.61	6.75	4.64	2.83	6.24	4.39	3.12
		30°C	8.29	6.56	2.05	8.00	6.42	2.22	7.72	6.27	2.41	7.42	6.12	2.61	6.83	5.72	2.83	6.34	5.41	3.13
		33°C	8.43	8.43	2.06	8.17	8.17	2.23	7.91	7.91	2.42	7.65	7.65	2.63	7.08	7.08	2.86	6.62	6.62	3.15
	22°C	27°C	9.05	4.52	2.09	8.73	4.41	2.26	8.41	4.30	2.45	8.07	4.18	2.66	7.42	3.90	2.88	6.86	3.68	3.18
		30°C	9.06	5.54	2.09	8.74	5.43	2.26	8.42	5.31	2.45	8.08	5.19	2.66	7.43	4.86	2.88	6.87	4.61	3.18
		33°C	9.08	6.50	2.09	8.76	6.37	2.26	8.44	6.24	2.45	8.11	6.11	2.66	7.46	5.73	2.89	6.91	5.44	3.18
		36°C	9.13	7.35	2.09	8.84	7.21	2.27	8.53	7.06	2.46	8.22	6.89	2.67	7.58	6.45	2.90	7.07	6.08	3.20
670	16°C	21°C	7.75	5.09	2.03	7.47	4.96	2.20	7.18	4.83	2.38	6.88	4.69	2.58	6.31	4.37	2.80	5.82	4.11	3.09
		24°C	7.79	6.18	2.04	7.51	6.04	2.20	7.23	5.89	2.38	6.94	5.74	2.59	6.37	5.35	2.80	5.88	5.05	3.09
		27°C	7.92	7.09	2.04	7.66	6.90	2.21	7.40	6.71	2.39	7.14	6.50	2.60	6.59	6.02	2.82	6.14	5.62	3.11
		30°C	8.31	8.31	2.06	8.07	8.07	2.23	7.82	7.82	2.42	7.57	7.57	2.63	7.01	7.01	2.85	6.54	6.54	3.15
	19°C	24°C	8.53	4.88	2.07	8.22	4.76	2.24	7.91	4.64	2.42	7.59	4.51	2.63	6.96	4.21	2.85	6.43	3.97	3.14
		27°C	8.56	5.65	2.07	8.25	5.52	2.24	7.94	5.39	2.43	7.62	5.26	2.63	7.00	4.92	2.85	6.47	4.65	3.14
		30°C	8.63	6.95	2.07	8.32	6.80	2.24	8.02	6.64	2.43	7.72	6.48	2.64	7.11	6.05	2.86	6.60	5.70	3.16
		33°C	8.82	8.82	2.08	8.56	8.56	2.26	8.29	8.29	2.45	8.02	8.02	2.66	7.43	7.43	2.89	6.95	6.95	3.19
	22°C	27°C	9.36	4.78	2.11	9.03	4.67	2.28	8.69	4.55	2.47	8.34	4.43	2.68	7.66	4.14	2.91	7.08	3.91	3.20
		30°C	9.38	5.89	2.11	9.05	5.78	2.28	8.71	5.65	2.47	8.36	5.52	2.68	7.68	5.17	2.91	7.10	4.90	3.20
		33°C	9.41	6.90	2.11	9.09	6.78	2.29	8.75	6.64	2.48	8.41	6.49	2.69	7.74	6.08	2.91	7.17	5.77	3.21
		36°C	9.50	7.79	2.11	9.20	7.65	2.29	8.88	7.48	2.49	8.56	7.30	2.70	7.91	6.81	2.93	7.38	6.41	3.23

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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R410A Heatpump

Model: FTYN20JXV1 - RYN20CGXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
195	16°C	21°C	2.02	1.54	0.54	1.95	1.50	0.58	1.87	1.46	0.63	1.80	1.42	0.68	1.65	1.32	0.74	1.52	1.24	0.81
		24°C	2.02	1.85	0.54	1.95	1.80	0.58	1.88	1.76	0.63	1.80	1.72	0.68	1.66	1.60	0.74	1.53	1.51	0.81
		27°C	2.04	2.04	0.54	1.97	1.97	0.58	1.90	1.90	0.63	1.83	1.83	0.68	1.69	1.69	0.74	1.57	1.57	0.82
		30°C	2.10	2.10	0.54	2.04	2.04	0.58	1.98	1.98	0.63	1.91	1.91	0.69	1.77	1.77	0.75	1.66	1.66	0.82
	19°C	24°C	2.23	1.44	0.54	2.15	1.40	0.59	2.07	1.37	0.64	1.99	1.33	0.69	1.83	1.24	0.75	1.69	1.16	0.83
		27°C	2.23	1.65	0.54	2.15	1.61	0.59	2.07	1.57	0.64	1.99	1.53	0.69	1.83	1.44	0.75	1.69	1.36	0.83
		30°C	2.23	2.03	0.54	2.15	1.99	0.59	2.08	1.94	0.64	2.00	1.90	0.69	1.84	1.77	0.75	1.71	1.68	0.83
		33°C	2.26	2.26	0.55	2.18	2.18	0.59	2.11	2.11	0.64	2.04	2.04	0.70	1.89	1.89	0.76	1.77	1.77	0.83
	22°C	27°C	2.45	1.41	0.55	2.36	1.37	0.60	2.28	1.34	0.65	2.19	1.30	0.71	2.01	1.21	0.77	1.86	1.14	0.84
		30°C	2.45	1.72	0.55	2.36	1.68	0.60	2.28	1.64	0.65	2.19	1.60	0.71	2.01	1.50	0.77	1.86	1.42	0.84
		33°C	2.45	2.00	0.55	2.37	1.97	0.60	2.28	1.93	0.65	2.19	1.89	0.71	2.02	1.77	0.77	1.87	1.68	0.84
		36°C	2.46	2.27	0.55	2.38	2.23	0.60	2.29	2.18	0.65	2.21	2.13	0.71	2.04	2.00	0.77	1.90	1.90	0.85
227	16°C	21°C	2.10	1.61	0.54	2.02	1.57	0.58	1.95	1.52	0.63	1.87	1.48	0.69	1.71	1.38	0.74	1.58	1.30	0.82
		24°C	2.11	1.95	0.54	2.03	1.91	0.58	1.95	1.86	0.63	1.88	1.81	0.69	1.72	1.69	0.75	1.59	1.59	0.82
		27°C	2.13	2.13	0.54	2.06	2.06	0.59	1.99	1.99	0.64	1.92	1.92	0.69	1.77	1.77	0.75	1.65	1.65	0.83
		30°C	2.22	2.22	0.55	2.16	2.16	0.59	2.09	2.09	0.64	2.02	2.02	0.70	1.87	1.87	0.76	1.75	1.75	0.83
	19°C	24°C	2.31	1.52	0.55	2.23	1.48	0.59	2.15	1.44	0.64	2.06	1.40	0.70	1.89	1.31	0.76	1.75	1.23	0.83
		27°C	2.32	1.75	0.55	2.23	1.71	0.59	2.15	1.67	0.64	2.06	1.63	0.70	1.90	1.53	0.76	1.75	1.45	0.84
		30°C	2.33	2.16	0.55	2.25	2.11	0.60	2.17	2.07	0.65	2.08	2.02	0.70	1.92	1.89	0.76	1.78	1.78	0.84
		33°C	2.37	2.37	0.55	2.29	2.29	0.60	2.22	2.22	0.65	2.15	2.15	0.70	1.99	1.99	0.77	1.86	1.86	0.84
	22°C	27°C	2.54	1.49	0.56	2.45	1.45	0.61	2.36	1.42	0.66	2.27	1.38	0.71	2.08	1.29	0.77	1.93	1.21	0.85
		30°C	2.54	1.83	0.56	2.45	1.79	0.61	2.36	1.75	0.66	2.27	1.71	0.71	2.09	1.60	0.77	1.93	1.52	0.85
		33°C	2.55	2.14	0.56	2.46	2.10	0.61	2.37	2.06	0.66	2.28	2.01	0.71	2.09	1.89	0.77	1.94	1.79	0.85
		36°C	2.56	2.42	0.56	2.48	2.37	0.61	2.40	2.33	0.66	2.31	2.27	0.72	2.13	2.13	0.78	1.99	1.99	0.86
262	16°C	21°C	2.18	1.68	0.54	2.10	1.63	0.59	2.02	1.59	0.64	1.93	1.55	0.69	1.77	1.44	0.75	1.63	1.36	0.83
		24°C	2.19	2.04	0.55	2.11	1.99	0.59	2.03	1.94	0.64	1.95	1.89	0.69	1.79	1.76	0.75	1.65	1.65	0.83
		27°C	2.22	2.22	0.55	2.15	2.15	0.59	2.08	2.08	0.64	2.00	2.00	0.70	1.85	1.85	0.76	1.73	1.73	0.83
		30°C	2.34	2.34	0.55	2.27	2.27	0.60	2.20	2.20	0.65	2.12	2.12	0.70	1.97	1.97	0.76	1.84	1.84	0.84
	19°C	24°C	2.40	1.61	0.55	2.31	1.57	0.60	2.22	1.53	0.65	2.13	1.49	0.70	1.96	1.39	0.76	1.81	1.31	0.84
		27°C	2.40	1.86	0.55	2.32	1.82	0.60	2.23	1.78	0.65	2.14	1.73	0.71	1.96	1.62	0.76	1.82	1.53	0.84
		30°C	2.42	2.29	0.56	2.34	2.24	0.60	2.25	2.19	0.65	2.17	2.13	0.71	2.00	1.99	0.77	1.85	1.85	0.85
		33°C	2.48	2.48	0.56	2.40	2.40	0.60	2.33	2.33	0.66	2.25	2.25	0.71	2.09	2.09	0.77	1.95	1.95	0.85
	22°C	27°C	2.63	1.57	0.56	2.54	1.54	0.61	2.44	1.50	0.66	2.34	1.46	0.72	2.15	1.36	0.78	1.99	1.29	0.86
		30°C	2.63	1.94	0.56	2.54	1.90	0.61	2.45	1.86	0.66	2.35	1.82	0.72	2.16	1.70	0.78	1.99	1.62	0.86
		33°C	2.64	2.27	0.57	2.55	2.23	0.61	2.46	2.19	0.66	2.36	2.14	0.72	2.17	2.01	0.78	2.01	1.90	0.86
		36°C	2.67	2.57	0.57	2.58	2.52	0.61	2.49	2.47	0.67	2.40	2.40	0.72	2.22	2.22	0.78	2.07	2.07	0.87

Model: FTYN20JXV1 - RYN20CGXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	1.240	1.240	1.404	1.404	1.458	1.458	2.058	2.058	2.385	2.385	2.548	2.548	2.712	2.712
17°C	1.208	1.208	1.276	1.276	1.423	1.423	2.055	2.055	2.338	2.338	2.499	2.499	2.660	2.660
19°C	1.175	1.175	1.148	1.148	1.388	1.388	2.053	2.053	2.290	2.290	2.450	2.450	2.609	2.609
21°C	1.143	1.143	1.100	1.100	1.352	1.352	2.016	2.016	2.243	2.243	2.400	2.400	2.557	2.557
23°C	1.110	1.110	1.132	1.132	1.317	1.317	1.944	1.944	2.196	2.196	2.351	2.351	2.506	2.506
25°C	1.078	1.078	1.164	1.164	1.282	1.282	1.872	1.872	2.149	2.149	2.302	2.302	2.455	2.455
27°C	1.045	1.045	1.196	1.196	1.246	1.246	1.800	1.800	2.101	2.101	2.252	2.252	2.403	2.403
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FTYN25JXV1 - RYN25CJXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
225	16°C	21°C	2.50	1.93	0.63	2.41	1.88	0.68	2.32	1.83	0.73	2.23	1.78	0.80	2.04	1.65	0.86	1.89	1.56	0.95
		24°C	2.50	2.31	0.63	2.41	2.26	0.68	2.32	2.21	0.73	2.23	2.15	0.80	2.05	2.01	0.86	1.90	1.90	0.95
		27°C	2.52	2.52	0.63	2.44	2.44	0.68	2.35	2.35	0.74	2.26	2.26	0.80	2.09	2.09	0.87	1.94	1.94	0.96
		30°C	2.60	2.60	0.63	2.52	2.52	0.68	2.45	2.45	0.74	2.37	2.37	0.80	2.20	2.20	0.87	2.05	2.05	0.97
	19°C	24°C	2.76	1.80	0.64	2.66	1.76	0.69	2.56	1.71	0.75	2.46	1.66	0.81	2.26	1.55	0.88	2.09	1.46	0.97
		27°C	2.76	2.06	0.64	2.66	2.02	0.69	2.56	1.97	0.75	2.46	1.92	0.81	2.26	1.80	0.88	2.09	1.70	0.97
		30°C	2.76	2.55	0.64	2.67	2.49	0.69	2.57	2.44	0.75	2.47	2.38	0.81	2.28	2.22	0.88	2.11	2.10	0.97
		33°C	2.79	2.79	0.64	2.70	2.70	0.69	2.62	2.62	0.75	2.53	2.53	0.81	2.34	2.34	0.88	2.19	2.19	0.98
	22°C	27°C	3.03	1.77	0.65	2.93	1.72	0.70	2.82	1.68	0.76	2.71	1.63	0.83	2.49	1.52	0.90	2.31	1.43	0.99
		30°C	3.03	2.15	0.65	2.93	2.11	0.70	2.82	2.06	0.76	2.71	2.01	0.83	2.49	1.88	0.90	2.31	1.78	0.99
		33°C	3.03	2.51	0.65	2.93	2.46	0.70	2.82	2.42	0.76	2.71	2.37	0.83	2.50	2.22	0.90	2.31	2.11	0.99
		36°C	3.04	2.85	0.65	2.94	2.79	0.70	2.84	2.73	0.76	2.74	2.67	0.83	2.52	2.51	0.90	2.35	2.35	0.99
282	16°C	21°C	2.60	2.02	0.63	2.51	1.96	0.68	2.41	1.91	0.74	2.31	1.86	0.80	2.12	1.73	0.87	1.96	1.63	0.96
		24°C	2.61	2.45	0.63	2.51	2.39	0.68	2.42	2.33	0.74	2.32	2.27	0.80	2.13	2.12	0.87	1.97	1.97	0.96
		27°C	2.64	2.64	0.63	2.55	2.55	0.69	2.46	2.46	0.74	2.37	2.37	0.81	2.19	2.19	0.88	2.04	2.04	0.97
		30°C	2.75	2.75	0.64	2.67	2.67	0.69	2.59	2.59	0.75	2.50	2.50	0.81	2.32	2.32	0.88	2.17	2.17	0.98
	19°C	24°C	2.86	1.91	0.64	2.76	1.86	0.70	2.66	1.81	0.75	2.55	1.76	0.82	2.34	1.64	0.89	2.16	1.55	0.98
		27°C	2.87	2.20	0.64	2.77	2.15	0.70	2.66	2.10	0.75	2.56	2.05	0.82	2.35	1.92	0.89	2.17	1.81	0.98
		30°C	2.88	2.71	0.64	2.78	2.65	0.70	2.68	2.59	0.76	2.58	2.53	0.82	2.38	2.36	0.89	2.20	2.20	0.98
		33°C	2.93	2.93	0.65	2.84	2.84	0.70	2.75	2.75	0.76	2.66	2.66	0.82	2.46	2.46	0.90	2.30	2.30	0.99
	22°C	27°C	3.15	1.87	0.65	3.04	1.82	0.71	2.92	1.78	0.77	2.81	1.73	0.83	2.58	1.61	0.90	2.39	1.52	1.00
		30°C	3.15	2.29	0.65	3.04	2.24	0.71	2.93	2.19	0.77	2.81	2.14	0.83	2.58	2.01	0.90	2.39	1.90	1.00
		33°C	3.16	2.68	0.66	3.05	2.63	0.71	2.93	2.58	0.77	2.82	2.52	0.83	2.59	2.37	0.91	2.40	2.25	1.00
		36°C	3.18	3.03	0.66	3.07	2.98	0.71	2.97	2.92	0.77	2.86	2.85	0.84	2.64	2.64	0.91	2.46	2.46	1.00
342	16°C	21°C	2.70	2.10	0.64	2.60	2.05	0.69	2.50	2.00	0.75	2.39	1.94	0.81	2.20	1.81	0.88	2.02	1.70	0.97
		24°C	2.71	2.56	0.64	2.61	2.50	0.69	2.51	2.43	0.75	2.41	2.37	0.81	2.22	2.21	0.88	2.05	2.05	0.97
		27°C	2.75	2.75	0.64	2.66	2.66	0.69	2.57	2.57	0.75	2.48	2.48	0.81	2.29	2.29	0.88	2.14	2.14	0.98
		30°C	2.89	2.89	0.65	2.81	2.81	0.70	2.72	2.72	0.76	2.63	2.63	0.82	2.44	2.44	0.90	2.28	2.28	0.99
	19°C	24°C	2.97	2.02	0.65	2.86	1.97	0.70	2.75	1.92	0.76	2.64	1.87	0.82	2.42	1.74	0.89	2.24	1.64	0.98
		27°C	2.98	2.33	0.65	2.87	2.28	0.70	2.76	2.23	0.76	2.65	2.17	0.83	2.43	2.03	0.89	2.25	1.92	0.99
		30°C	3.00	2.87	0.65	2.89	2.81	0.70	2.79	2.75	0.76	2.68	2.68	0.83	2.47	2.47	0.90	2.29	2.29	0.99
		33°C	3.07	3.07	0.65	2.98	2.98	0.71	2.88	2.88	0.77	2.79	2.79	0.83	2.58	2.58	0.91	2.42	2.42	1.00
	22°C	27°C	3.26	1.97	0.66	3.14	1.93	0.72	3.02	1.88	0.78	2.90	1.83	0.84	2.66	1.71	0.91	2.46	1.61	1.00
		30°C	3.26	2.43	0.66	3.15	2.39	0.72	3.03	2.34	0.78	2.91	2.28	0.84	2.67	2.14	0.91	2.47	2.03	1.00
		33°C	3.27	2.85	0.66	3.16	2.80	0.72	3.04	2.74	0.78	2.93	2.68	0.84	2.69	2.51	0.91	2.49	2.39	1.01
		36°C	3.30	3.22	0.66	3.20	3.16	0.72	3.09	3.09	0.78	2.98	2.98	0.85	2.75	2.75	0.92	2.57	2.57	1.01

Model: FTYN25JXV1 - RYN25CJXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	1.692	1.692	1.915	1.915	1.989	1.989	2.807	2.807	3.253	3.253	3.476	3.476	3.700	3.700
17°C	1.648	1.648	1.850	1.850	1.944	1.944	2.804	2.804	3.201	3.201	3.423	3.423	3.645	3.645
19°C	1.603	1.603	1.785	1.785	1.898	1.898	2.801	2.801	3.149	3.149	3.370	3.370	3.591	3.591
21°C	1.559	1.559	1.737	1.737	1.852	1.852	2.757	2.757	3.097	3.097	3.317	3.317	3.536	3.536
23°C	1.515	1.515	1.705	1.705	1.806	1.806	2.674	2.674	3.045	3.045	3.263	3.263	3.482	3.482
25°C	1.470	1.470	1.674	1.674	1.760	1.760	2.591	2.591	2.993	2.993	3.210	3.210	3.428	3.428
27°C	1.426	1.426	1.642	1.642	1.714	1.714	2.508	2.508	2.941	2.941	3.157	3.157	3.373	3.373
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FTYN35JXV1 - RYN35CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
242	16°C	21°C	2.97	2.18	0.83	2.86	2.13	0.90	2.76	2.07	0.97	2.65	2.01	1.06	2.43	1.87	1.15	2.24	1.76	1.26
		24°C	2.97	2.62	0.83	2.87	2.56	0.90	2.76	2.50	0.97	2.65	2.43	1.06	2.44	2.27	1.15	2.25	2.15	1.26
		27°C	3.00	2.97	0.83	2.90	2.90	0.90	2.80	2.80	0.98	2.69	2.69	1.06	2.48	2.48	1.15	2.31	2.31	1.27
		30°C	3.09	3.09	0.84	3.00	3.00	0.91	2.91	2.91	0.98	2.82	2.82	1.07	2.61	2.61	1.16	2.44	2.44	1.28
	19°C	24°C	3.28	2.04	0.84	3.16	1.99	0.91	3.04	1.94	0.99	2.92	1.88	1.07	2.69	1.75	1.17	2.48	1.65	1.28
		27°C	3.28	2.33	0.84	3.16	2.28	0.91	3.05	2.23	0.99	2.93	2.17	1.07	2.69	2.03	1.17	2.49	1.93	1.28
		30°C	3.28	2.88	0.84	3.17	2.82	0.91	3.06	2.76	0.99	2.94	2.69	1.08	2.71	2.52	1.17	2.51	2.38	1.29
		33°C	3.32	3.32	0.85	3.21	3.21	0.92	3.11	3.11	0.99	3.00	3.00	1.08	2.78	2.78	1.17	2.60	2.60	1.29
	22°C	27°C	3.60	2.00	0.86	3.48	1.95	0.93	3.35	1.90	1.01	3.22	1.85	1.10	2.96	1.72	1.19	2.74	1.62	1.31
		30°C	3.60	2.43	0.86	3.48	2.38	0.93	3.35	2.33	1.01	3.22	2.27	1.10	2.96	2.13	1.19	2.74	2.02	1.31
		33°C	3.61	2.84	0.86	3.48	2.79	0.93	3.35	2.73	1.01	3.22	2.68	1.10	2.97	2.51	1.19	2.75	2.39	1.31
		36°C	3.62	3.22	0.86	3.50	3.16	0.93	3.38	3.09	1.01	3.25	3.02	1.10	3.00	2.83	1.19	2.79	2.69	1.31
298	16°C	21°C	3.09	2.28	0.84	2.98	2.22	0.91	2.87	2.16	0.98	2.75	2.10	1.06	2.52	1.96	1.16	2.33	1.84	1.27
		24°C	3.10	2.77	0.84	2.99	2.70	0.91	2.88	2.64	0.98	2.76	2.57	1.07	2.54	2.40	1.16	2.34	2.26	1.27
		27°C	3.14	3.14	0.84	3.03	3.03	0.91	2.93	2.93	0.99	2.82	2.82	1.07	2.61	2.61	1.16	2.43	2.43	1.28
		30°C	3.27	3.27	0.85	3.17	3.17	0.92	3.08	3.08	0.99	2.98	2.98	1.08	2.76	2.76	1.17	2.58	2.58	1.30
	19°C	24°C	3.40	2.16	0.85	3.28	2.10	0.92	3.16	2.05	1.00	3.03	1.99	1.08	2.79	1.86	1.18	2.57	1.75	1.30
		27°C	3.41	2.48	0.85	3.29	2.43	0.92	3.17	2.37	1.00	3.04	2.32	1.08	2.79	2.17	1.18	2.58	2.05	1.30
		30°C	3.43	3.06	0.85	3.31	3.00	0.92	3.19	2.93	1.00	3.07	2.86	1.09	2.82	2.67	1.18	2.62	2.53	1.30
		33°C	3.48	3.48	0.86	3.38	3.38	0.93	3.27	3.27	1.01	3.16	3.16	1.09	2.93	2.93	1.19	2.74	2.74	1.31
	22°C	27°C	3.74	2.11	0.87	3.61	2.06	0.94	3.47	2.01	1.02	3.34	1.96	1.11	3.07	1.82	1.20	2.84	1.72	1.32
		30°C	3.75	2.59	0.87	3.61	2.54	0.94	3.48	2.48	1.02	3.34	2.42	1.11	3.07	2.27	1.20	2.84	2.15	1.32
		33°C	3.75	3.04	0.87	3.62	2.98	0.94	3.49	2.92	1.02	3.35	2.85	1.11	3.08	2.68	1.20	2.86	2.54	1.32
		36°C	3.77	3.43	0.87	3.65	3.37	0.94	3.53	3.30	1.02	3.40	3.22	1.11	3.13	3.01	1.20	2.92	2.84	1.33
355	16°C	21°C	3.20	2.38	0.85	3.09	2.32	0.91	2.97	2.26	0.99	2.85	2.19	1.07	2.61	2.04	1.16	2.41	1.92	1.28
		24°C	3.22	2.89	0.85	3.10	2.82	0.92	2.99	2.75	0.99	2.87	2.68	1.08	2.63	2.50	1.17	2.43	2.36	1.29
		27°C	3.27	3.27	0.85	3.17	3.17	0.92	3.06	3.06	1.00	2.95	2.95	1.08	2.73	2.73	1.17	2.54	2.54	1.29
		30°C	3.44	3.44	0.86	3.34	3.34	0.93	3.23	3.23	1.01	3.13	3.13	1.09	2.90	2.90	1.19	2.70	2.70	1.31
	19°C	24°C	3.53	2.28	0.86	3.40	2.22	0.93	3.27	2.17	1.01	3.14	2.11	1.09	2.88	1.97	1.19	2.66	1.85	1.31
		27°C	3.54	2.64	0.86	3.41	2.58	0.93	3.28	2.52	1.01	3.15	2.46	1.09	2.89	2.30	1.19	2.67	2.17	1.31
		30°C	3.57	3.25	0.86	3.44	3.18	0.93	3.32	3.10	1.01	3.19	3.03	1.10	2.94	2.83	1.19	2.73	2.66	1.31
		33°C	3.64	3.64	0.87	3.54	3.54	0.94	3.43	3.43	1.02	3.32	3.32	1.11	3.07	3.07	1.20	2.87	2.87	1.33
	22°C	27°C	3.87	2.23	0.88	3.73	2.18	0.95	3.59	2.13	1.03	3.45	2.07	1.11	3.17	1.93	1.21	2.93	1.83	1.33
		30°C	3.88	2.75	0.88	3.74	2.70	0.95	3.60	2.64	1.03	3.46	2.58	1.12	3.17	2.42	1.21	2.94	2.29	1.33
		33°C	3.89	3.22	0.88	3.76	3.17	0.95	3.62	3.10	1.03	3.48	3.03	1.12	3.20	2.84	1.21	2.96	2.70	1.33
		36°C	3.93	3.64	0.88	3.80	3.57	0.95	3.67	3.50	1.03	3.54	3.41	1.12	3.27	3.18	1.22	3.05	2.99	1.34

Model: FTYN35JXV1 - RYN35CJXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	2.043	2.043	2.312	2.312	2.402	2.402	3.389	3.389	3.928	3.928	4.197	4.197	4.467	4.467
17°C	1.989	1.989	2.255	2.255	2.347	2.347	3.385	3.385	3.869	3.869	4.137	4.137	4.406	4.406
19°C	1.936	1.936	2.197	2.197	2.293	2.293	3.381	3.381	3.810	3.810	4.078	4.078	4.345	4.345
21°C	1.882	1.882	2.143	2.143	2.238	2.238	3.331	3.331	3.751	3.751	4.018	4.018	4.285	4.285
23°C	1.829	1.829	2.091	2.091	2.184	2.184	3.236	3.236	3.692	3.692	3.958	3.958	4.224	4.224
25°C	1.775	1.775	2.038	2.038	2.129	2.129	3.140	3.140	3.633	3.633	3.898	3.898	4.164	4.164
27°C	1.722	1.722	1.986	1.986	2.074	2.074	3.045	3.045	3.574	3.574	3.839	3.839	4.103	4.103
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FTYN50JXV1 - RYN50CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
424	16°C	21°C	4.95	3.55	1.24	4.78	3.46	1.34	4.60	3.36	1.46	4.41	3.27	1.58	4.05	3.04	1.71	3.74	2.86	1.89
		24°C	4.96	4.25	1.24	4.78	4.15	1.34	4.60	4.06	1.46	4.42	3.96	1.58	4.06	3.69	1.71	3.76	3.49	1.89
		27°C	5.00	4.82	1.24	4.83	4.71	1.35	4.66	4.60	1.46	4.48	4.48	1.58	4.14	4.14	1.72	3.85	3.85	1.89
		30°C	5.15	5.15	1.25	5.00	5.00	1.35	4.85	4.85	1.47	4.69	4.69	1.59	4.35	4.35	1.73	4.07	4.07	1.91
	19°C	24°C	5.46	3.31	1.26	5.27	3.23	1.37	5.08	3.14	1.48	4.87	3.06	1.61	4.48	2.85	1.74	4.14	2.68	1.92
		27°C	5.46	3.79	1.26	5.27	3.71	1.37	5.08	3.62	1.48	4.88	3.53	1.61	4.48	3.31	1.74	4.15	3.13	1.92
		30°C	5.47	4.68	1.26	5.28	4.58	1.37	5.10	4.48	1.48	4.90	4.37	1.61	4.52	4.09	1.74	4.19	3.87	1.92
		33°C	5.54	5.54	1.27	5.36	5.36	1.37	5.18	5.18	1.49	5.01	5.01	1.61	4.63	4.63	1.75	4.33	4.33	1.94
	22°C	27°C	6.01	3.24	1.28	5.80	3.17	1.39	5.59	3.09	1.51	5.37	3.00	1.64	4.94	2.80	1.78	4.57	2.64	1.96
		30°C	6.01	3.95	1.28	5.80	3.87	1.39	5.59	3.78	1.51	5.37	3.69	1.64	4.94	3.46	1.78	4.57	3.28	1.96
		33°C	6.01	4.62	1.29	5.80	4.53	1.39	5.59	4.44	1.51	5.37	4.35	1.64	4.95	4.08	1.78	4.58	3.88	1.96
		36°C	6.03	5.24	1.29	5.83	5.13	1.39	5.63	5.02	1.51	5.43	4.91	1.64	5.00	4.61	1.78	4.65	4.37	1.96
478	16°C	21°C	5.15	3.70	1.25	4.96	3.61	1.36	4.78	3.51	1.47	4.58	3.41	1.59	4.20	3.18	1.73	3.88	2.99	1.90
		24°C	5.17	4.49	1.25	4.98	4.39	1.36	4.79	4.28	1.47	4.60	4.18	1.59	4.23	3.90	1.73	3.91	3.68	1.90
		27°C	5.23	5.10	1.26	5.05	4.98	1.36	4.88	4.86	1.47	4.70	4.70	1.60	4.34	4.34	1.74	4.05	4.05	1.92
		30°C	5.45	5.45	1.27	5.29	5.29	1.37	5.13	5.13	1.49	4.96	4.96	1.61	4.60	4.60	1.75	4.30	4.30	1.94
	19°C	24°C	5.67	3.50	1.27	5.47	3.41	1.38	5.27	3.32	1.49	5.06	3.23	1.62	4.64	3.01	1.76	4.29	2.84	1.94
		27°C	5.68	4.03	1.27	5.48	3.94	1.38	5.28	3.86	1.49	5.06	3.76	1.62	4.65	3.52	1.76	4.30	3.33	1.94
		30°C	5.71	4.98	1.28	5.51	4.87	1.38	5.32	4.76	1.50	5.11	4.64	1.62	4.71	4.34	1.76	4.37	4.10	1.94
		33°C	5.81	5.81	1.28	5.63	5.63	1.39	5.45	5.45	1.50	5.27	5.27	1.63	4.88	4.88	1.77	4.56	4.56	1.96
	22°C	27°C	6.23	3.43	1.30	6.02	3.35	1.41	5.79	3.26	1.52	5.56	3.18	1.65	5.11	2.96	1.79	4.73	2.79	1.97
		30°C	6.24	4.21	1.30	6.02	4.12	1.41	5.80	4.03	1.52	5.57	3.93	1.65	5.12	3.68	1.79	4.73	3.50	1.97
		33°C	6.25	4.93	1.30	6.04	4.84	1.41	5.81	4.74	1.53	5.59	4.64	1.65	5.14	4.35	1.79	4.76	4.13	1.98
		36°C	6.29	5.57	1.30	6.09	5.47	1.41	5.88	5.35	1.53	5.66	5.23	1.66	5.22	4.89	1.80	4.87	4.62	1.99
536	16°C	21°C	5.34	3.86	1.26	5.15	3.76	1.37	4.95	3.67	1.48	4.74	3.56	1.60	4.35	3.32	1.74	4.01	3.12	1.92
		24°C	5.37	4.69	1.27	5.17	4.58	1.37	4.98	4.47	1.48	4.78	4.35	1.61	4.39	4.06	1.74	4.05	3.83	1.92
		27°C	5.46	5.38	1.27	5.28	5.24	1.37	5.10	5.09	1.49	4.92	4.92	1.61	4.54	4.54	1.75	4.23	4.23	1.94
		30°C	5.73	5.73	1.28	5.56	5.56	1.39	5.39	5.39	1.50	5.21	5.21	1.63	4.83	4.83	1.77	4.51	4.51	1.96
	19°C	24°C	5.88	3.70	1.28	5.67	3.61	1.39	5.45	3.52	1.51	5.23	3.43	1.63	4.80	3.19	1.77	4.43	3.01	1.95
		27°C	5.90	4.29	1.29	5.68	4.19	1.39	5.47	4.09	1.51	5.25	3.99	1.64	4.82	3.73	1.77	4.46	3.53	1.95
		30°C	5.94	5.27	1.29	5.73	5.16	1.39	5.53	5.04	1.51	5.32	4.92	1.64	4.90	4.59	1.78	4.54	4.33	1.96
		33°C	6.07	6.07	1.29	5.90	5.90	1.40	5.71	5.71	1.52	5.53	5.53	1.65	5.12	5.12	1.80	4.79	4.79	1.98
	22°C	27°C	6.45	3.62	1.31	6.22	3.54	1.42	5.99	3.46	1.54	5.75	3.36	1.67	5.28	3.14	1.81	4.88	2.96	1.99
		30°C	6.46	4.47	1.31	6.23	4.38	1.42	6.00	4.29	1.54	5.76	4.19	1.67	5.29	3.92	1.81	4.89	3.72	1.99
		33°C	6.49	5.24	1.31	6.26	5.14	1.42	6.03	5.04	1.54	5.79	4.93	1.67	5.33	4.62	1.81	4.94	4.38	2.00
		36°C	6.54	5.91	1.31	6.34	5.80	1.42	6.12	5.68	1.54	5.90	5.54	1.68	5.45	5.16	1.82	5.09	4.86	2.01

Model: FTYN50JXV1 - RYN50CJXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.189	3.189	3.610	3.610	3.750	3.750	5.291	5.291	6.132	6.132	6.553	6.553	6.973	6.973
17°C	3.106	3.106	3.291	3.291	3.664	3.664	5.285	5.285	6.038	6.038	6.457	6.457	6.876	6.876
19°C	3.022	3.022	2.973	2.973	3.578	3.578	5.279	5.279	5.944	5.944	6.361	6.361	6.778	6.778
21°C	2.938	2.938	2.854	2.854	3.493	3.493	5.200	5.200	5.849	5.849	6.265	6.265	6.681	6.681
23°C	2.855	2.855	2.936	2.936	3.407	3.407	5.048	5.048	5.755	5.755	6.169	6.169	6.584	6.584
25°C	2.771	2.771	3.017	3.017	3.322	3.322	4.896	4.896	5.661	5.661	6.074	6.074	6.487	6.487
27°C	2.688	2.688	3.099	3.099	3.236	3.236	4.744	4.744	5.567	5.567	5.978	5.978	6.389	6.389
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FTYN60JXV1 - RYN60CJXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
474	16°C	21°C	5.67	3.96	1.42	5.47	3.85	1.54	5.26	3.75	1.66	5.05	3.64	1.80	4.64	3.39	1.96	4.28	3.19	2.16
		24°C	5.67	4.74	1.42	5.47	4.63	1.54	5.27	4.52	1.66	5.06	4.41	1.81	4.65	4.12	1.96	4.30	3.89	2.16
		27°C	5.72	5.37	1.42	5.53	5.25	1.54	5.33	5.13	1.67	5.13	4.99	1.81	4.74	4.65	1.96	4.41	4.36	2.17
		30°C	5.90	5.90	1.43	5.73	5.73	1.55	5.55	5.55	1.68	5.37	5.37	1.82	4.98	4.98	1.98	4.66	4.66	2.19
	19°C	24°C	6.25	3.69	1.44	6.03	3.60	1.56	5.81	3.50	1.69	5.58	3.41	1.84	5.13	3.17	1.99	4.74	2.99	2.20
		27°C	6.26	4.23	1.44	6.03	4.13	1.56	5.81	4.04	1.69	5.58	3.94	1.84	5.13	3.68	1.99	4.75	3.49	2.20
		30°C	6.26	5.22	1.44	6.05	5.10	1.56	5.83	4.99	1.69	5.61	4.87	1.84	5.17	4.56	1.99	4.79	4.31	2.20
		33°C	6.34	6.34	1.45	6.13	6.13	1.57	5.93	5.93	1.70	5.73	5.73	1.85	5.30	5.30	2.00	4.96	4.96	2.21
	22°C	27°C	6.88	3.62	1.47	6.64	3.53	1.59	6.40	3.44	1.73	6.15	3.34	1.87	5.65	3.12	2.03	5.23	2.94	2.24
		30°C	6.88	4.41	1.47	6.64	4.31	1.59	6.40	4.21	1.73	6.15	4.11	1.87	5.65	3.85	2.03	5.23	3.65	2.24
		33°C	6.88	5.15	1.47	6.64	5.05	1.59	6.40	4.95	1.73	6.15	4.85	1.87	5.66	4.55	2.03	5.25	4.32	2.24
		36°C	6.91	5.83	1.47	6.68	5.72	1.59	6.45	5.60	1.73	6.21	5.48	1.88	5.73	5.13	2.04	5.33	4.87	2.24
537	16°C	21°C	5.90	4.13	1.43	5.68	4.02	1.55	5.47	3.91	1.68	5.24	3.80	1.82	4.81	3.54	1.97	4.44	3.33	2.18
		24°C	5.91	5.01	1.43	5.70	4.89	1.55	5.49	4.77	1.68	5.27	4.65	1.82	4.84	4.34	1.98	4.47	4.10	2.18
		27°C	5.98	5.69	1.44	5.78	5.56	1.56	5.58	5.41	1.69	5.38	5.25	1.83	4.97	4.88	1.99	4.63	4.56	2.19
		30°C	6.23	6.23	1.45	6.05	6.05	1.57	5.87	5.87	1.70	5.68	5.68	1.85	5.26	5.26	2.01	4.92	4.92	2.21
	19°C	24°C	6.50	3.90	1.46	6.26	3.81	1.58	6.03	3.71	1.71	5.79	3.60	1.85	5.31	3.36	2.01	4.91	3.17	2.21
		27°C	6.51	4.50	1.46	6.27	4.40	1.58	6.04	4.30	1.71	5.80	4.19	1.85	5.33	3.92	2.01	4.92	3.71	2.22
		30°C	6.54	5.55	1.46	6.31	5.43	1.58	6.08	5.30	1.71	5.85	5.17	1.86	5.39	4.84	2.01	5.00	4.57	2.22
		33°C	6.65	6.65	1.46	6.44	6.44	1.59	6.24	6.24	1.72	6.03	6.03	1.87	5.59	5.59	2.03	5.22	5.22	2.24
	22°C	27°C	7.14	3.82	1.48	6.89	3.73	1.61	6.63	3.64	1.74	6.37	3.54	1.89	5.85	3.30	2.05	5.41	3.11	2.26
		30°C	7.15	4.69	1.48	6.89	4.59	1.61	6.64	4.49	1.74	6.37	4.39	1.89	5.86	4.11	2.05	5.42	3.90	2.26
		33°C	7.16	5.49	1.48	6.91	5.39	1.61	6.66	5.28	1.74	6.39	5.17	1.89	5.88	4.85	2.05	5.45	4.60	2.26
		36°C	7.20	6.21	1.49	6.97	6.09	1.61	6.73	5.97	1.75	6.48	5.83	1.90	5.98	5.45	2.06	5.58	5.15	2.27
614	16°C	21°C	6.11	4.31	1.45	5.89	4.20	1.56	5.66	4.09	1.69	5.43	3.97	1.83	4.98	3.70	1.99	4.59	3.48	2.19
		24°C	6.15	5.23	1.45	5.92	5.11	1.57	5.70	4.98	1.70	5.47	4.85	1.84	5.02	4.53	1.99	4.64	4.27	2.20
		27°C	6.25	5.99	1.45	6.04	5.84	1.57	5.84	5.68	1.70	5.63	5.50	1.85	5.20	5.10	2.01	4.85	4.76	2.21
		30°C	6.56	6.56	1.46	6.37	6.37	1.59	6.17	6.17	1.72	5.97	5.97	1.87	5.53	5.53	2.03	5.16	5.16	2.24
	19°C	24°C	6.73	4.13	1.47	6.49	4.03	1.59	6.24	3.92	1.72	5.99	3.82	1.87	5.49	3.56	2.03	5.07	3.36	2.23
		27°C	6.75	4.78	1.47	6.51	4.67	1.59	6.26	4.56	1.72	6.01	4.45	1.87	5.52	4.16	2.03	5.10	3.93	2.23
		30°C	6.81	5.88	1.47	6.56	5.75	1.59	6.33	5.62	1.73	6.09	5.48	1.87	5.60	5.12	2.03	5.20	4.82	2.24
		33°C	6.95	6.95	1.48	6.75	6.75	1.60	6.54	6.54	1.74	6.33	6.33	1.89	5.86	5.86	2.05	5.48	5.48	2.27
	22°C	27°C	7.38	4.04	1.50	7.12	3.95	1.62	6.85	3.85	1.76	6.58	3.75	1.91	6.04	3.50	2.07	5.58	3.30	2.28
		30°C	7.40	4.98	1.50	7.14	4.89	1.62	6.87	4.78	1.76	6.59	4.67	1.91	6.06	4.37	2.07	5.60	4.15	2.28
		33°C	7.43	5.84	1.50	7.17	5.73	1.62	6.91	5.61	1.76	6.63	5.49	1.91	6.10	5.15	2.07	5.65	4.88	2.28
		36°C	7.49	6.59	1.50	7.26	6.47	1.63	7.01	6.33	1.77	6.75	6.17	1.92	6.24	5.76	2.08	5.82	5.42	2.30

Model: FTYN60JXV1 - RYN60CJXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.721	3.721	4.211	4.211	4.375	4.375	6.173	6.173	7.154	7.154	7.645	7.645	8.135	8.135
17°C	3.623	3.623	3.734	3.734	4.282	4.282	6.166	6.166	7.081	7.081	7.575	7.575	8.069	8.069
19°C	3.526	3.526	3.257	3.257	4.189	4.189	6.158	6.158	7.008	7.008	7.505	7.505	8.003	8.003
21°C	3.428	3.428	3.108	3.108	4.096	4.096	6.089	6.089	6.934	6.934	7.435	7.435	7.936	7.936
23°C	3.331	3.331	3.288	3.288	4.003	4.003	5.956	5.956	6.861	6.861	7.366	7.366	7.870	7.870
25°C	3.233	3.233	3.467	3.467	3.910	3.910	5.824	5.824	6.788	6.788	7.296	7.296	7.804	7.804
27°C	3.135	3.135	3.647	3.647	3.817	3.817	5.692	5.692	6.715	6.715	7.226	7.226	7.737	7.737
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FTYN80FXV1 - RQ71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
500	16°C	21°C	7.18	4.68	1.95	6.93	4.55	2.10	6.67	4.43	2.28	6.40	4.30	2.47	5.88	4.01	2.68	5.43	3.77	2.95
		24°C	7.19	5.60	1.95	6.94	5.47	2.10	6.68	5.34	2.28	6.41	5.21	2.47	5.89	4.87	2.68	5.45	4.59	2.96
		27°C	7.25	6.35	1.95	7.01	6.21	2.11	6.76	6.06	2.28	6.51	5.90	2.48	6.01	5.49	2.69	5.59	5.16	2.97
		30°C	7.47	7.47	1.96	7.26	7.26	2.12	7.04	7.04	2.30	6.81	6.81	2.50	6.32	6.32	2.71	5.91	5.91	3.00
	19°C	24°C	7.92	4.37	1.98	7.65	4.26	2.14	7.37	4.14	2.32	7.07	4.03	2.51	6.50	3.75	2.73	6.01	3.53	3.01
		27°C	7.93	5.00	1.98	7.65	4.88	2.14	7.37	4.77	2.32	7.08	4.66	2.51	6.51	4.35	2.73	6.02	4.13	3.01
		30°C	7.94	6.16	1.98	7.67	6.03	2.14	7.40	5.90	2.32	7.12	5.76	2.52	6.55	5.38	2.73	6.08	5.10	3.01
		33°C	8.04	8.04	1.98	7.77	7.77	2.15	7.52	7.52	2.33	7.27	7.27	2.53	6.72	6.72	2.74	6.29	6.29	3.03
	22°C	27°C	8.72	4.27	2.01	8.42	4.17	2.18	8.11	4.07	2.36	7.79	3.95	2.56	7.17	3.68	2.78	6.63	3.47	3.06
		30°C	8.72	5.21	2.01	8.42	5.10	2.18	8.11	4.98	2.36	7.79	4.86	2.56	7.17	4.55	2.78	6.64	4.32	3.06
		33°C	8.73	6.08	2.01	8.42	5.97	2.18	8.12	5.85	2.36	7.80	5.73	2.56	7.18	5.38	2.78	6.65	5.11	3.07
		36°C	8.75	6.90	2.01	8.47	6.76	2.18	8.17	6.62	2.37	7.87	6.47	2.57	7.26	6.07	2.79	6.75	5.76	3.07
630	16°C	21°C	7.48	4.88	1.96	7.21	4.75	2.12	6.93	4.63	2.30	6.65	4.50	2.49	6.10	4.19	2.70	5.63	3.94	2.98
		24°C	7.50	5.92	1.96	7.23	5.78	2.12	6.96	5.64	2.30	6.68	5.50	2.49	6.13	5.13	2.71	5.67	4.85	2.98
		27°C	7.59	6.73	1.97	7.33	6.57	2.13	7.08	6.40	2.31	6.83	6.21	2.50	6.30	5.77	2.72	5.87	5.39	3.00
		30°C	7.91	7.91	1.98	7.68	7.68	2.15	7.44	7.44	2.33	7.20	7.20	2.53	6.67	6.67	2.75	6.24	6.24	3.03
	19°C	24°C	8.24	4.62	1.99	7.94	4.50	2.16	7.65	4.38	2.34	7.34	4.26	2.54	6.74	3.97	2.75	6.23	3.74	3.03
		27°C	8.25	5.32	2.00	7.96	5.20	2.16	7.66	5.08	2.34	7.35	4.96	2.54	6.75	4.64	2.75	6.24	4.39	3.03
		30°C	8.29	6.56	2.00	8.00	6.42	2.16	7.72	6.27	2.34	7.42	6.12	2.54	6.83	5.72	2.76	6.34	5.41	3.04
		33°C	8.43	8.43	2.00	8.17	8.17	2.17	7.91	7.91	2.36	7.65	7.65	2.56	7.08	7.08	2.78	6.62	6.62	3.07
	22°C	27°C	9.05	4.52	2.03	8.73	4.41	2.20	8.41	4.30	2.39	8.07	4.18	2.59	7.42	3.90	2.81	6.86	3.68	3.09
		30°C	9.06	5.54	2.03	8.74	5.43	2.20	8.42	5.31	2.39	8.08	5.19	2.59	7.43	4.86	2.81	6.87	4.61	3.09
		33°C	9.08	6.50	2.03	8.76	6.37	2.20	8.44	6.24	2.39	8.11	6.11	2.59	7.46	5.73	2.81	6.91	5.44	3.10
		36°C	9.13	7.35	2.04	8.84	7.21	2.21	8.53	7.06	2.39	8.22	6.89	2.60	7.58	6.45	2.82	7.07	6.08	3.11
670	16°C	21°C	7.75	5.09	1.98	7.47	4.96	2.14	7.18	4.83	2.32	6.88	4.69	2.51	6.31	4.37	2.72	5.82	4.11	3.00
		24°C	7.79	6.18	1.98	7.51	6.04	2.14	7.23	5.89	2.32	6.94	5.74	2.52	6.37	5.35	2.73	5.88	5.05	3.01
		27°C	7.92	7.09	1.99	7.66	6.90	2.15	7.40	6.71	2.33	7.14	6.50	2.53	6.59	6.02	2.75	6.14	5.62	3.03
		30°C	8.31	8.31	2.00	8.07	8.07	2.17	7.82	7.82	2.35	7.57	7.57	2.56	7.01	7.01	2.78	6.54	6.54	3.07
	19°C	24°C	8.53	4.88	2.01	8.22	4.76	2.18	7.91	4.64	2.36	7.59	4.51	2.56	6.96	4.21	2.77	6.43	3.97	3.06
		27°C	8.56	5.65	2.01	8.25	5.52	2.18	7.94	5.39	2.36	7.62	5.26	2.56	7.00	4.92	2.78	6.47	4.65	3.06
		30°C	8.63	6.95	2.02	8.32	6.80	2.18	8.02	6.64	2.37	7.72	6.48	2.57	7.11	6.05	2.78	6.60	5.70	3.07
		33°C	8.82	8.82	2.03	8.56	8.56	2.20	8.29	8.29	2.38	8.02	8.02	2.59	7.43	7.43	2.81	6.95	6.95	3.10
	22°C	27°C	9.36	4.78	2.05	9.03	4.67	2.22	8.69	4.55	2.41	8.34	4.43	2.61	7.66	4.14	2.83	7.08	3.91	3.11
		30°C	9.38	5.89	2.05	9.05	5.78	2.22	8.71	5.65	2.41	8.36	5.52	2.61	7.68	5.17	2.83	7.10	4.90	3.12
		33°C	9.41	6.90	2.05	9.09	6.78	2.22	8.75	6.64	2.41	8.41	6.49	2.61	7.74	6.08	2.84	7.17	5.77	3.12
		36°C	9.50	7.79	2.06	9.20	7.65	2.23	8.88	7.48	2.42	8.56	7.30	2.63	7.91	6.81	2.85	7.38	6.41	3.14

Model: FTYN80FXV1 - RQ71CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.607	4.607	5.214	5.214	5.416	5.416	7.643	7.643	8.858	8.858	9.465	9.465	10.072	10.072
17°C	4.486	4.486	5.121	5.121	5.289	5.289	7.634	7.634	8.703	8.703	9.305	9.305	9.908	9.908
19°C	4.365	4.365	5.029	5.029	5.162	5.162	7.625	7.625	8.548	8.548	9.146	9.146	9.743	9.743
21°C	4.244	4.244	4.908	4.908	5.035	5.035	7.499	7.499	8.393	8.393	8.986	8.986	9.579	9.579
23°C	4.124	4.124	4.759	4.759	4.907	4.907	7.257	7.257	8.239	8.239	8.827	8.827	9.414	9.414
25°C	4.003	4.003	4.609	4.609	4.780	4.780	7.015	7.015	8.084	8.084	8.667	8.667	9.250	9.250
27°C	3.882	3.882	4.460	4.460	4.653	4.653	6.773	6.773	7.929	7.929	8.507	8.507	9.086	9.086
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FTYN80FXV1 - RQ71CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
500	16°C	21°C	7.18	4.68	2.00	6.93	4.55	2.16	6.67	4.43	2.34	6.40	4.30	2.54	5.88	4.01	2.75	5.43	3.77	3.04
		24°C	7.19	5.60	2.00	6.94	5.47	2.16	6.68	5.34	2.34	6.41	5.21	2.54	5.89	4.87	2.76	5.45	4.59	3.04
		27°C	7.25	6.35	2.00	7.01	6.21	2.17	6.76	6.06	2.35	6.51	5.90	2.55	6.01	5.49	2.76	5.59	5.16	3.05
		30°C	7.47	7.47	2.01	7.26	7.26	2.18	7.04	7.04	2.36	6.81	6.81	2.57	6.32	6.32	2.79	5.91	5.91	3.08
	19°C	24°C	7.92	4.37	2.03	7.65	4.26	2.20	7.37	4.14	2.38	7.07	4.03	2.58	6.50	3.75	2.80	6.01	3.53	3.09
		27°C	7.93	5.00	2.03	7.65	4.88	2.20	7.37	4.77	2.38	7.08	4.66	2.58	6.51	4.35	2.80	6.02	4.13	3.09
		30°C	7.94	6.16	2.03	7.67	6.03	2.20	7.40	5.90	2.38	7.12	5.76	2.59	6.55	5.38	2.81	6.08	5.10	3.09
		33°C	8.04	8.04	2.04	7.77	7.77	2.21	7.52	7.52	2.39	7.27	7.27	2.60	6.72	6.72	2.82	6.29	6.29	3.11
	22°C	27°C	8.72	4.27	2.07	8.42	4.17	2.24	8.11	4.07	2.43	7.79	3.95	2.63	7.17	3.68	2.86	6.63	3.47	3.15
		30°C	8.72	5.21	2.07	8.42	5.10	2.24	8.11	4.98	2.43	7.79	4.86	2.63	7.17	4.55	2.86	6.64	4.32	3.15
		33°C	8.73	6.08	2.07	8.42	5.97	2.24	8.12	5.85	2.43	7.80	5.73	2.63	7.18	5.38	2.86	6.65	5.11	3.15
		36°C	8.75	6.90	2.07	8.47	6.76	2.24	8.17	6.62	2.43	7.87	6.47	2.64	7.26	6.07	2.86	6.75	5.76	3.16
630	16°C	21°C	7.48	4.88	2.02	7.21	4.75	2.18	6.93	4.63	2.36	6.65	4.50	2.56	6.10	4.19	2.78	5.63	3.94	3.06
		24°C	7.50	5.92	2.02	7.23	5.78	2.18	6.96	5.64	2.36	6.68	5.50	2.56	6.13	5.13	2.78	5.67	4.85	3.07
		27°C	7.59	6.73	2.02	7.33	6.57	2.19	7.08	6.40	2.37	6.83	6.21	2.57	6.30	5.77	2.79	5.87	5.39	3.08
		30°C	7.91	7.91	2.04	7.68	7.68	2.21	7.44	7.44	2.39	7.20	7.20	2.60	6.67	6.67	2.82	6.24	6.24	3.12
	19°C	24°C	8.24	4.62	2.05	7.94	4.50	2.22	7.65	4.38	2.40	7.34	4.26	2.61	6.74	3.97	2.83	6.23	3.74	3.12
		27°C	8.25	5.32	2.05	7.96	5.20	2.22	7.66	5.08	2.40	7.35	4.96	2.61	6.75	4.64	2.83	6.24	4.39	3.12
		30°C	8.29	6.56	2.05	8.00	6.42	2.22	7.72	6.27	2.41	7.42	6.12	2.61	6.83	5.72	2.83	6.34	5.41	3.13
		33°C	8.43	8.43	2.06	8.17	8.17	2.23	7.91	7.91	2.42	7.65	7.65	2.63	7.08	7.08	2.86	6.62	6.62	3.15
	22°C	27°C	9.05	4.52	2.09	8.73	4.41	2.26	8.41	4.30	2.45	8.07	4.18	2.66	7.42	3.90	2.88	6.86	3.68	3.18
		30°C	9.06	5.54	2.09	8.74	5.43	2.26	8.42	5.31	2.45	8.08	5.19	2.66	7.43	4.86	2.88	6.87	4.61	3.18
		33°C	9.08	6.50	2.09	8.76	6.37	2.26	8.44	6.24	2.45	8.11	6.11	2.66	7.46	5.73	2.89	6.91	5.44	3.18
		36°C	9.13	7.35	2.09	8.84	7.21	2.27	8.53	7.06	2.46	8.22	6.89	2.67	7.58	6.45	2.90	7.07	6.08	3.20
670	16°C	21°C	7.75	5.09	2.03	7.47	4.96	2.20	7.18	4.83	2.38	6.88	4.69	2.58	6.31	4.37	2.80	5.82	4.11	3.09
		24°C	7.79	6.18	2.04	7.51	6.04	2.20	7.23	5.89	2.38	6.94	5.74	2.59	6.37	5.35	2.80	5.88	5.05	3.09
		27°C	7.92	7.09	2.04	7.66	6.90	2.21	7.40	6.71	2.39	7.14	6.50	2.60	6.59	6.02	2.82	6.14	5.62	3.11
		30°C	8.31	8.31	2.06	8.07	8.07	2.23	7.82	7.82	2.42	7.57	7.57	2.63	7.01	7.01	2.85	6.54	6.54	3.15
	19°C	24°C	8.53	4.88	2.07	8.22	4.76	2.24	7.91	4.64	2.42	7.59	4.51	2.63	6.96	4.21	2.85	6.43	3.97	3.14
		27°C	8.56	5.65	2.07	8.25	5.52	2.24	7.94	5.39	2.43	7.62	5.26	2.63	7.00	4.92	2.85	6.47	4.65	3.14
		30°C	8.63	6.95	2.07	8.32	6.80	2.24	8.02	6.64	2.43	7.72	6.48	2.64	7.11	6.05	2.86	6.60	5.70	3.16
		33°C	8.82	8.82	2.08	8.56	8.56	2.26	8.29	8.29	2.45	8.02	8.02	2.66	7.43	7.43	2.89	6.95	6.95	3.19
	22°C	27°C	9.36	4.78	2.11	9.03	4.67	2.28	8.69	4.55	2.47	8.34	4.43	2.68	7.66	4.14	2.91	7.08	3.91	3.20
		30°C	9.38	5.89	2.11	9.05	5.78	2.28	8.71	5.65	2.47	8.36	5.52	2.68	7.68	5.17	2.91	7.10	4.90	3.20
		33°C	9.41	6.90	2.11	9.09	6.78	2.29	8.75	6.64	2.48	8.41	6.49	2.69	7.74	6.08	2.91	7.17	5.77	3.21
		36°C	9.50	7.79	2.11	9.20	7.65	2.29	8.88	7.48	2.49	8.56	7.30	2.70	7.91	6.81	2.93	7.38	6.41	3.23

Model: FTYN80FXV1 - RQ71CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.607	4.607	5.214	5.214	5.416	5.416	7.643	7.643	8.858	8.858	9.465	9.465	10.072	10.072
17°C	4.486	4.486	5.121	5.121	5.289	5.289	7.634	7.634	8.703	8.703	9.305	9.305	9.908	9.908
19°C	4.365	4.365	5.029	5.029	5.162	5.162	7.625	7.625	8.548	8.548	9.146	9.146	9.743	9.743
21°C	4.244	4.244	4.908	4.908	5.035	5.035	7.499	7.499	8.393	8.393	8.986	8.986	9.579	9.579
23°C	4.124	4.124	4.759	4.759	4.907	4.907	7.257	7.257	8.239	8.239	8.827	8.827	9.414	9.414
25°C	4.003	4.003	4.609	4.609	4.780	4.780	7.015	7.015	8.084	8.084	8.667	8.667	9.250	9.250
27°C	3.882	3.882	4.460	4.460	4.653	4.653	6.773	6.773	7.929	7.929	8.507	8.507	9.086	9.086
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

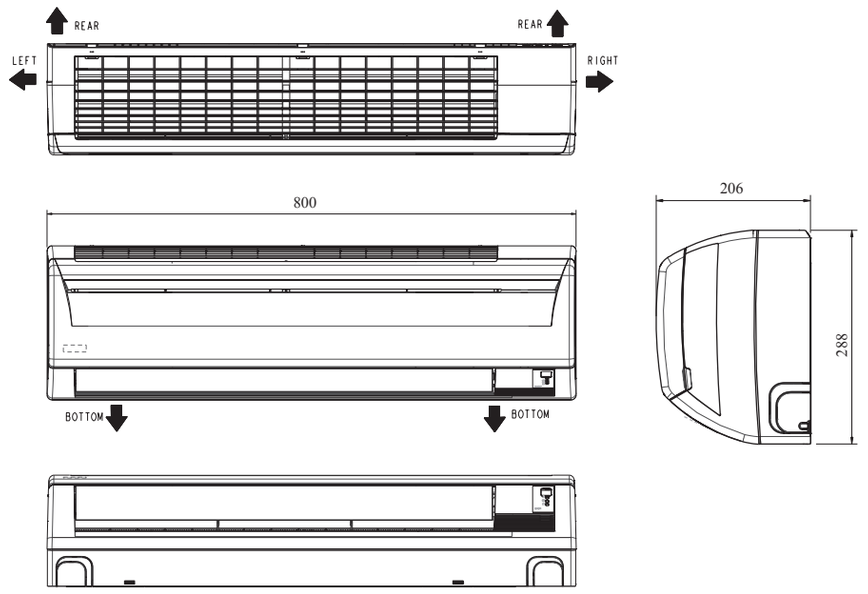
Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Outline & Dimension

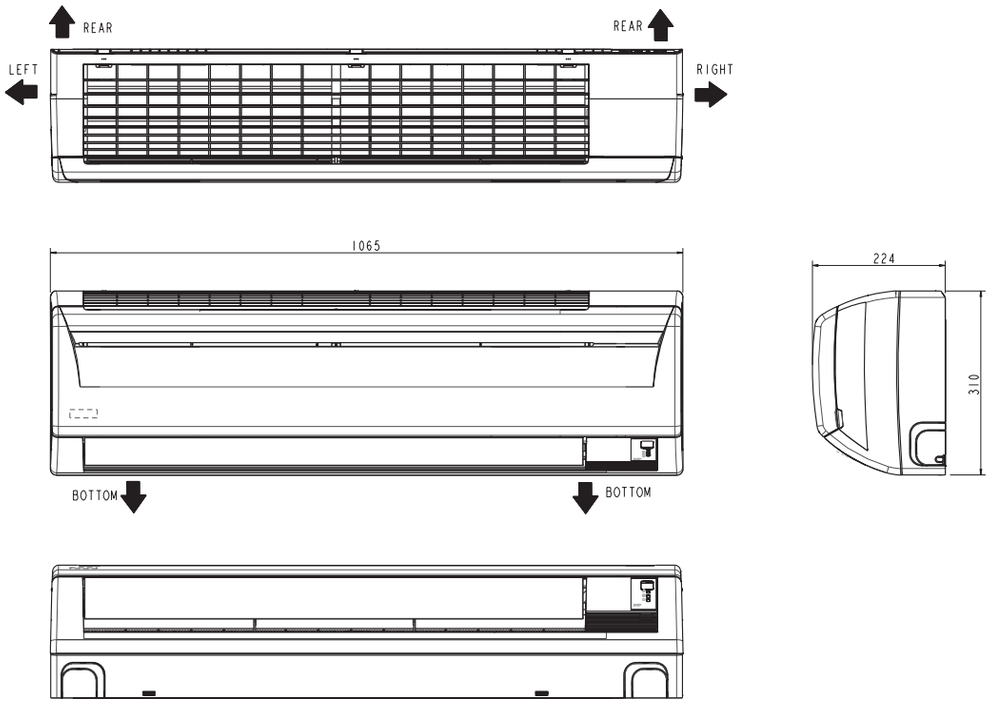
Indoor Unit

Model: FT(Y)N25/35JXV1



Note: Dimension in mm

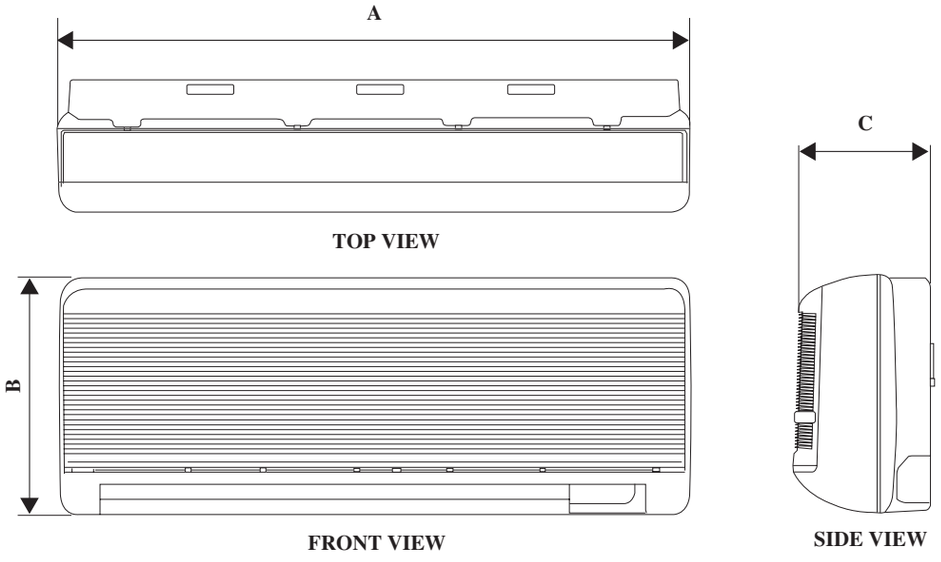
Model: FT(Y)N50/60JXV1



Note: Dimension in mm

DAIKIN_FT(Y)N.indb 34 1/8/2013 10:44:21 AM

Model: FT(Y)N80FXV1



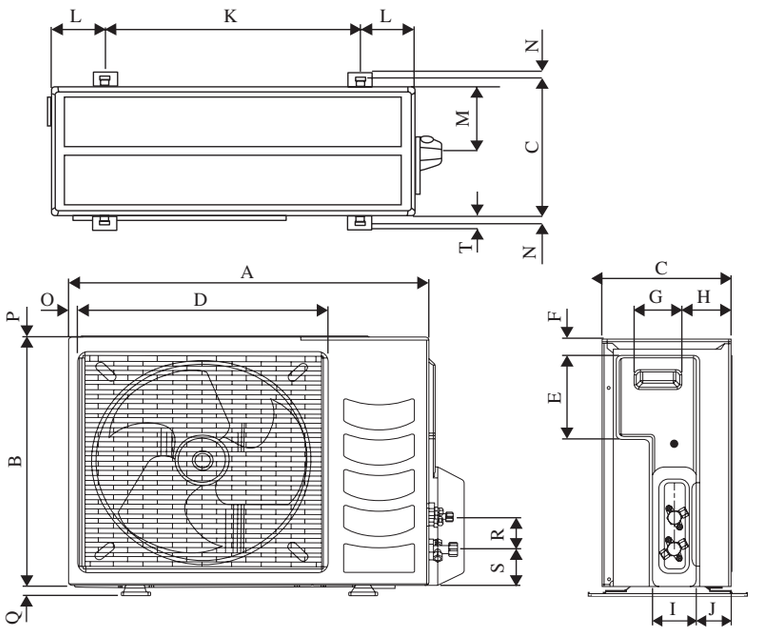
Model	A	B	C
FT(Y)N80FXV1	1200	360	200

Note: Dimension in mm

DAIKIN_FT(Y)N.indb 35 1/8/2013 10:44:21 AM

Outdoor Unit

Model: R(Y)N25/35CJXV1

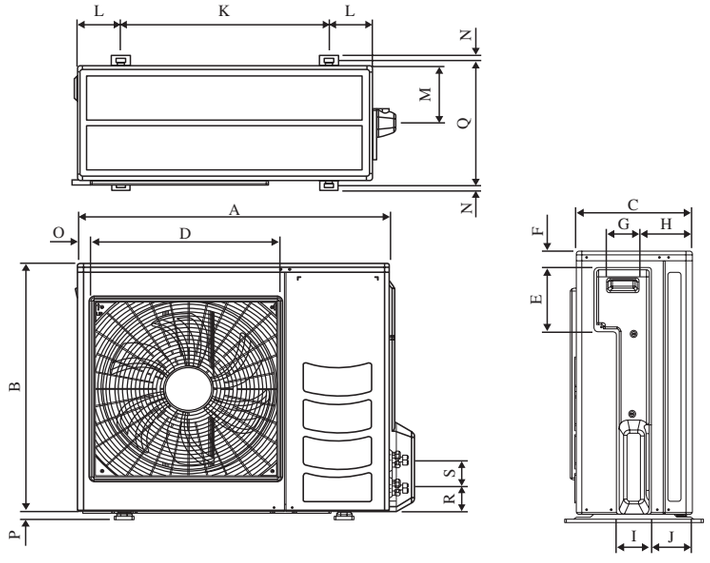


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
R(Y)N25/35CJXV1	700	521	250	485	175	36	95	93	86	68	441	130	111	15	18

Model	P	Q	R	S	T
R(Y)N25/35CJXV1	3	19	65	80	30

Note: Dimension in mm

Model: R(Y)N50/60CJXV1 / R(Y)N50/60/CJXY1 / RQ71CJXV1 / RQ71CJXY1



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
R(Y)N50/60CJXV1	855	628	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75
R(Y)N50/60/CJXY1 / RQ71CJXV1 / RQ71CJXY1	855	730	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75

Note: Dimension in mm

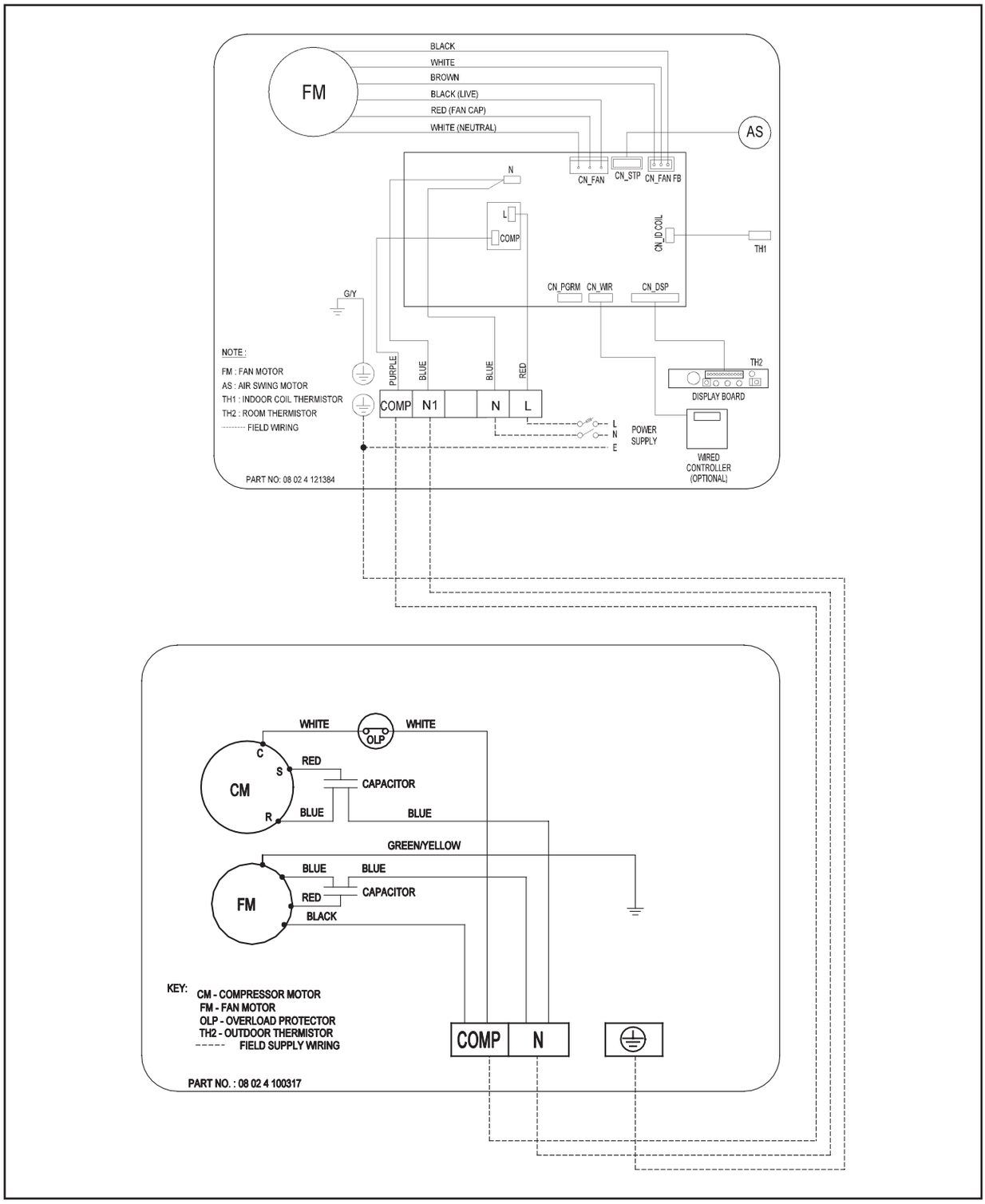
DAIKIN_FT(Y)N.indb 36 1/8/2013 10:44:21 AM

Wiring Diagram

Cooling Only

Indoor Unit
Model: FTN25/35JXV1

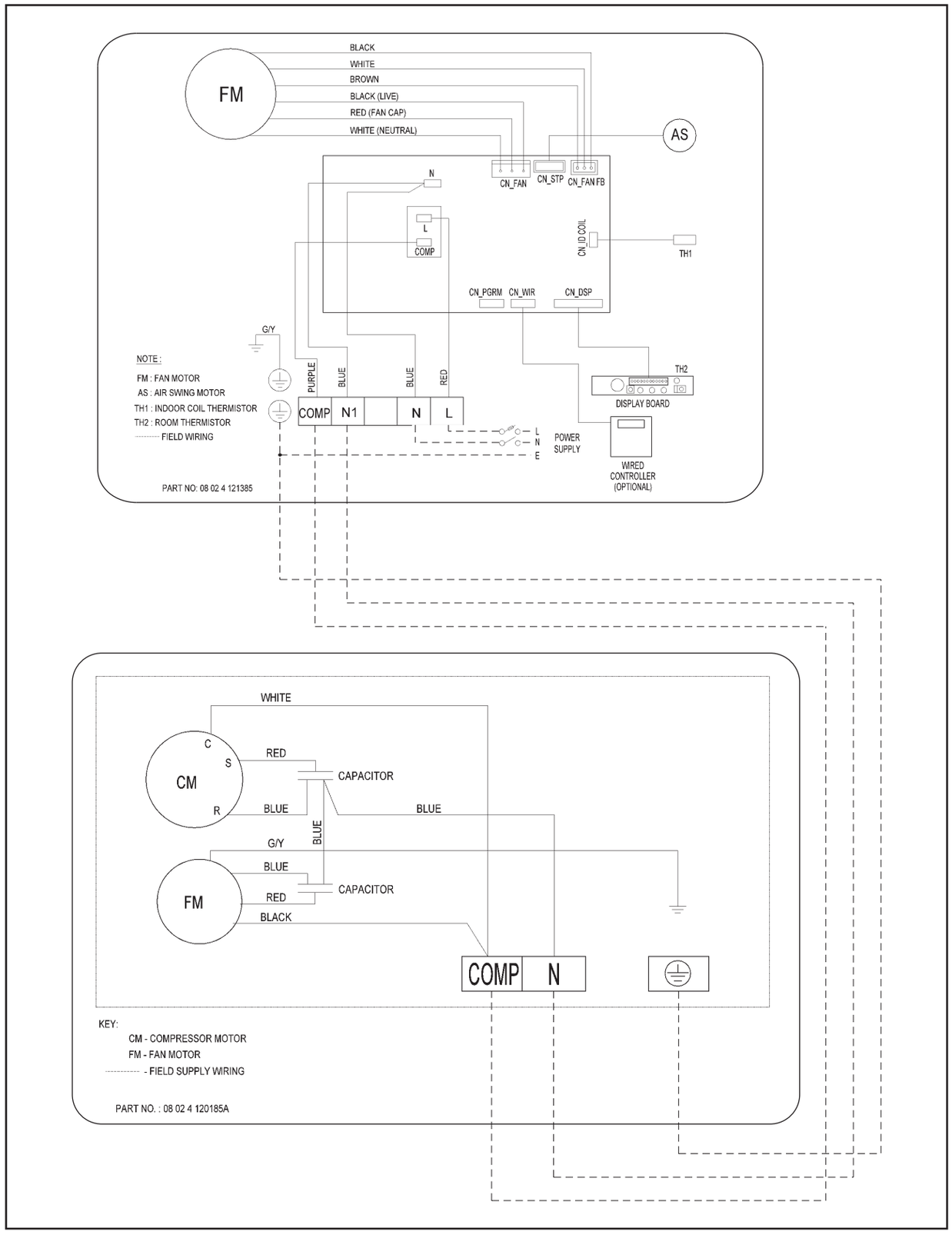
Outdoor Unit
Model: RN25/35CJXV1



DAIKIN_FT(Y)N.indb 37 1/8/2013 10:44:21 AM

Indoor Unit
Model: FTN50/60JXV1

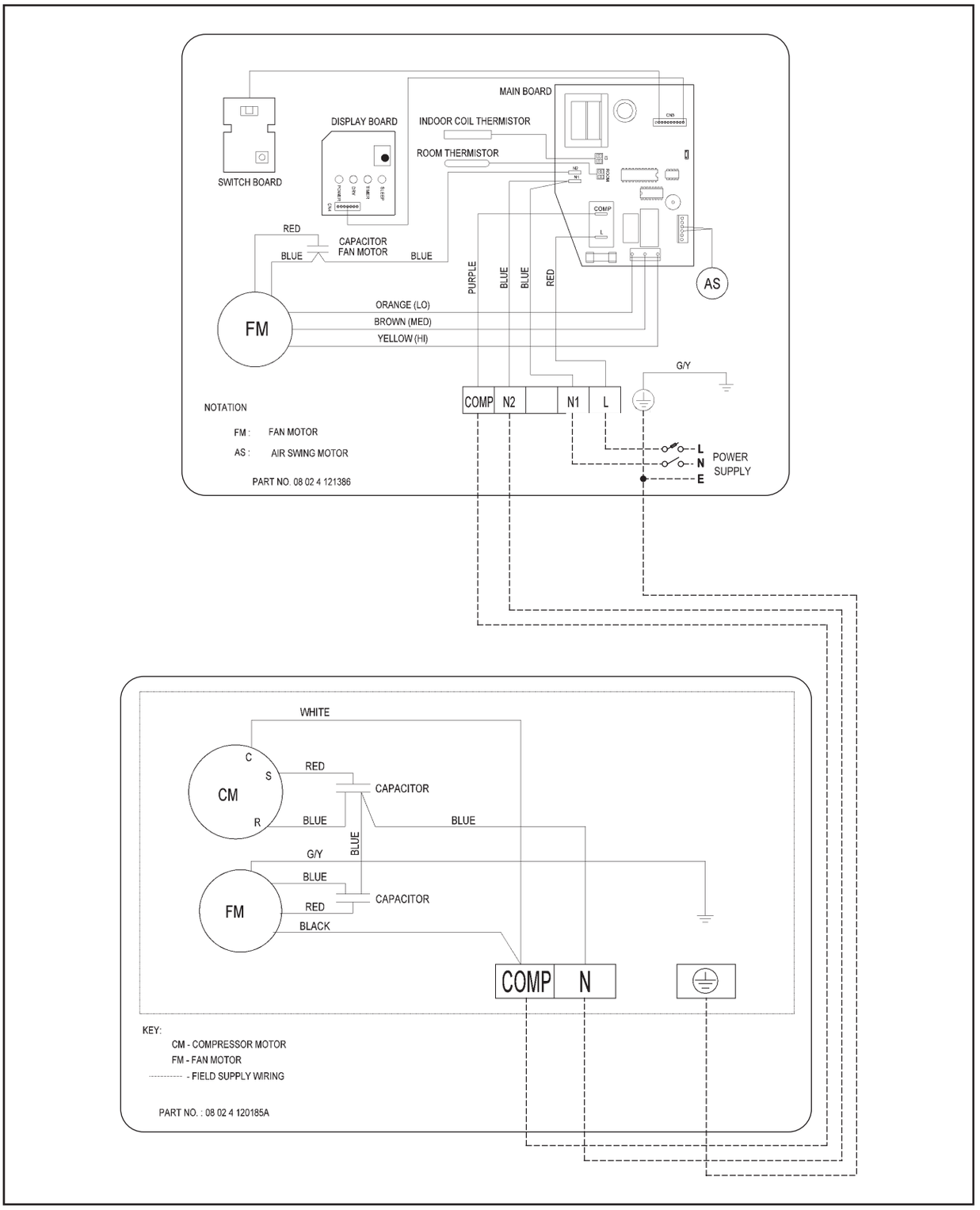
Outdoor Unit
Model: RN50/60CJXV1



DAIKIN_FT(Y)N.indb 38 1/8/2013 10:44:21 AM

Indoor Unit
Model: FTN80FXV1

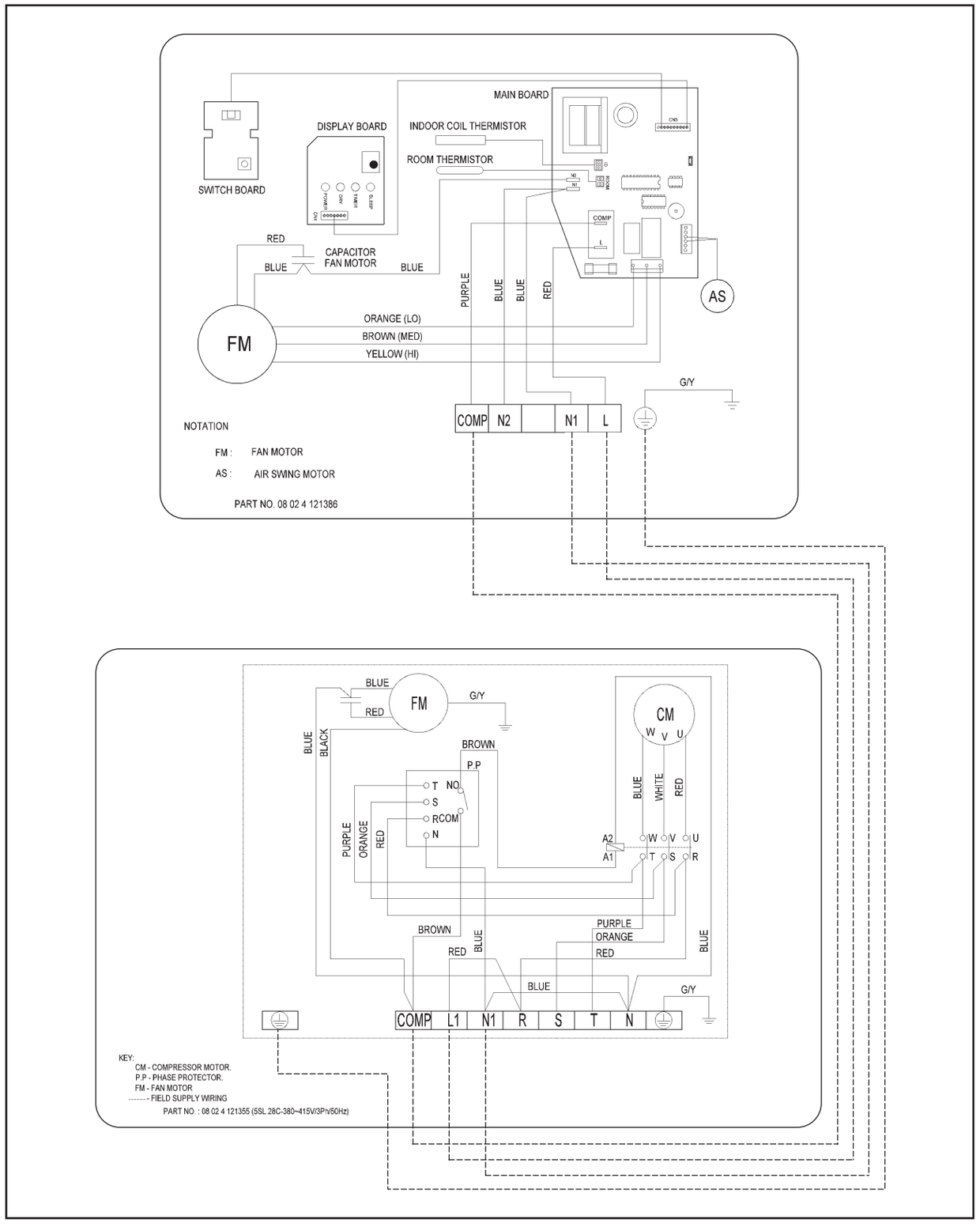
Outdoor Unit
Model: RR71CXV1



DAIKIN_FT(Y)N.indb 39 1/8/2013 10:44:21 AM

Indoor Unit
Model: FTN80FXV1

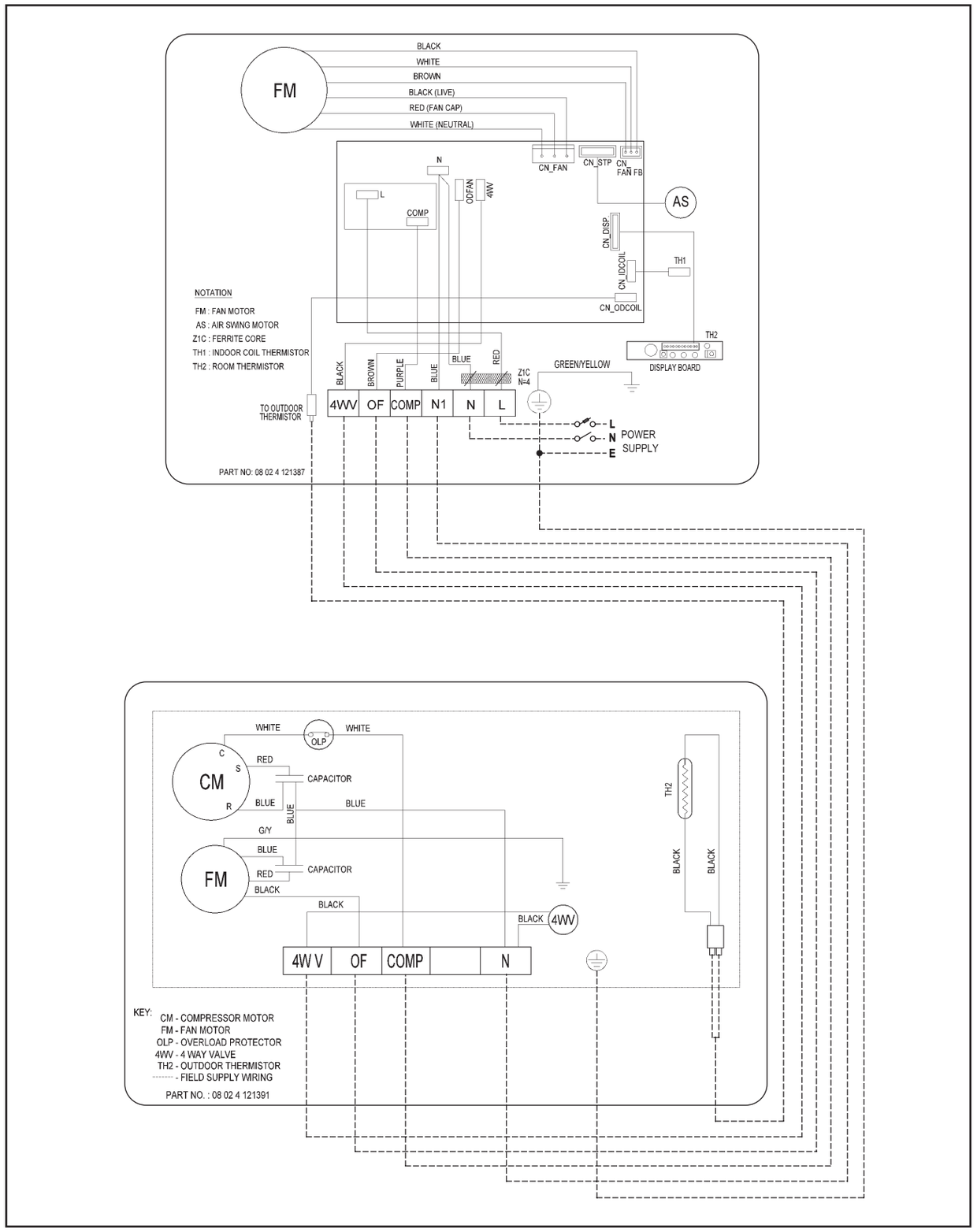
Outdoor Unit
Model: RR71CXY1



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Indoor Unit
Model: FTYN20JXV1

Outdoor Unit
Model: RYN20CGXV1

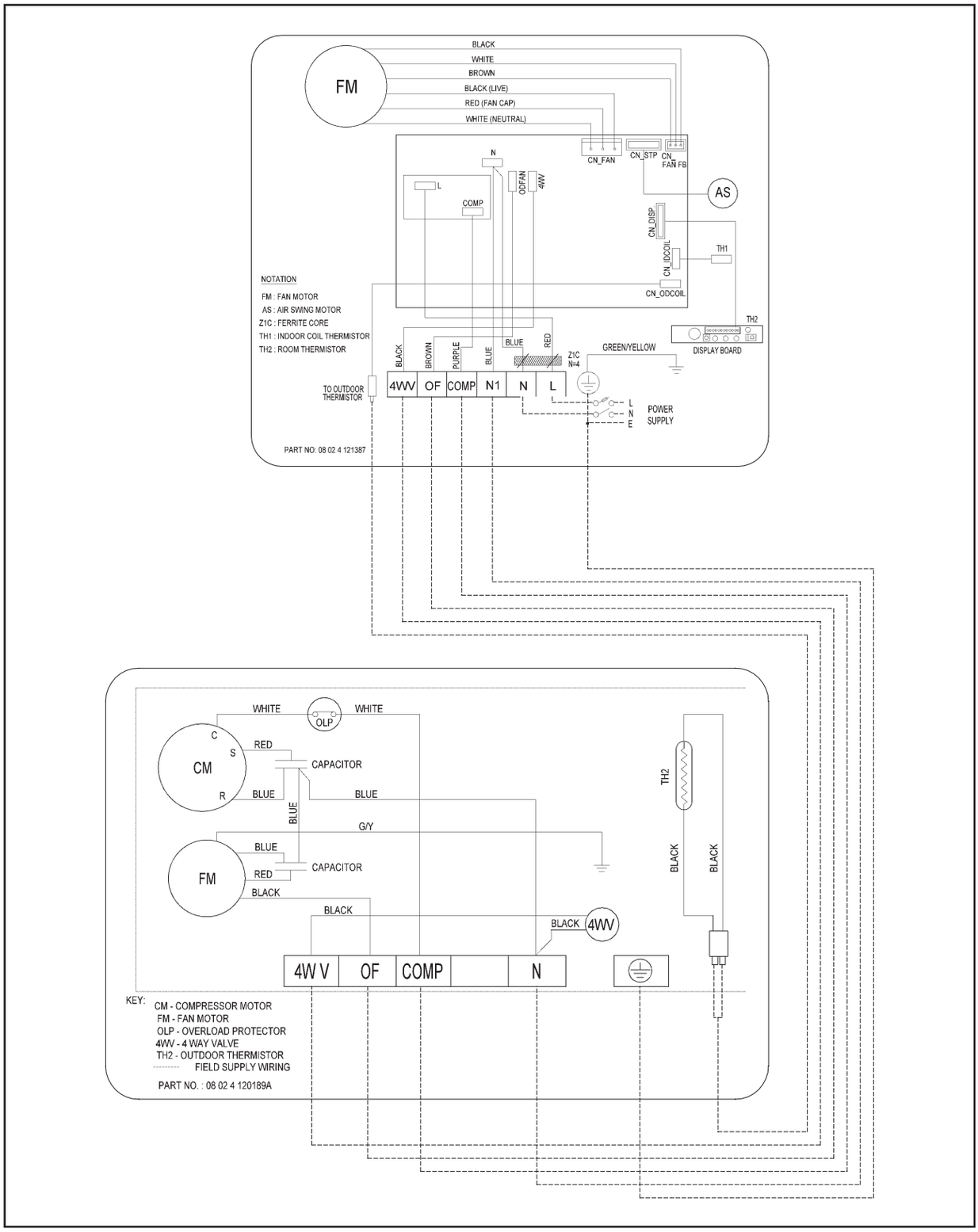


DAIKIN_FT(Y)N.indb 41 1/8/2013 10:44:22 AM

Heatpump

Indoor Unit
Model: FTYN25/35JXV1

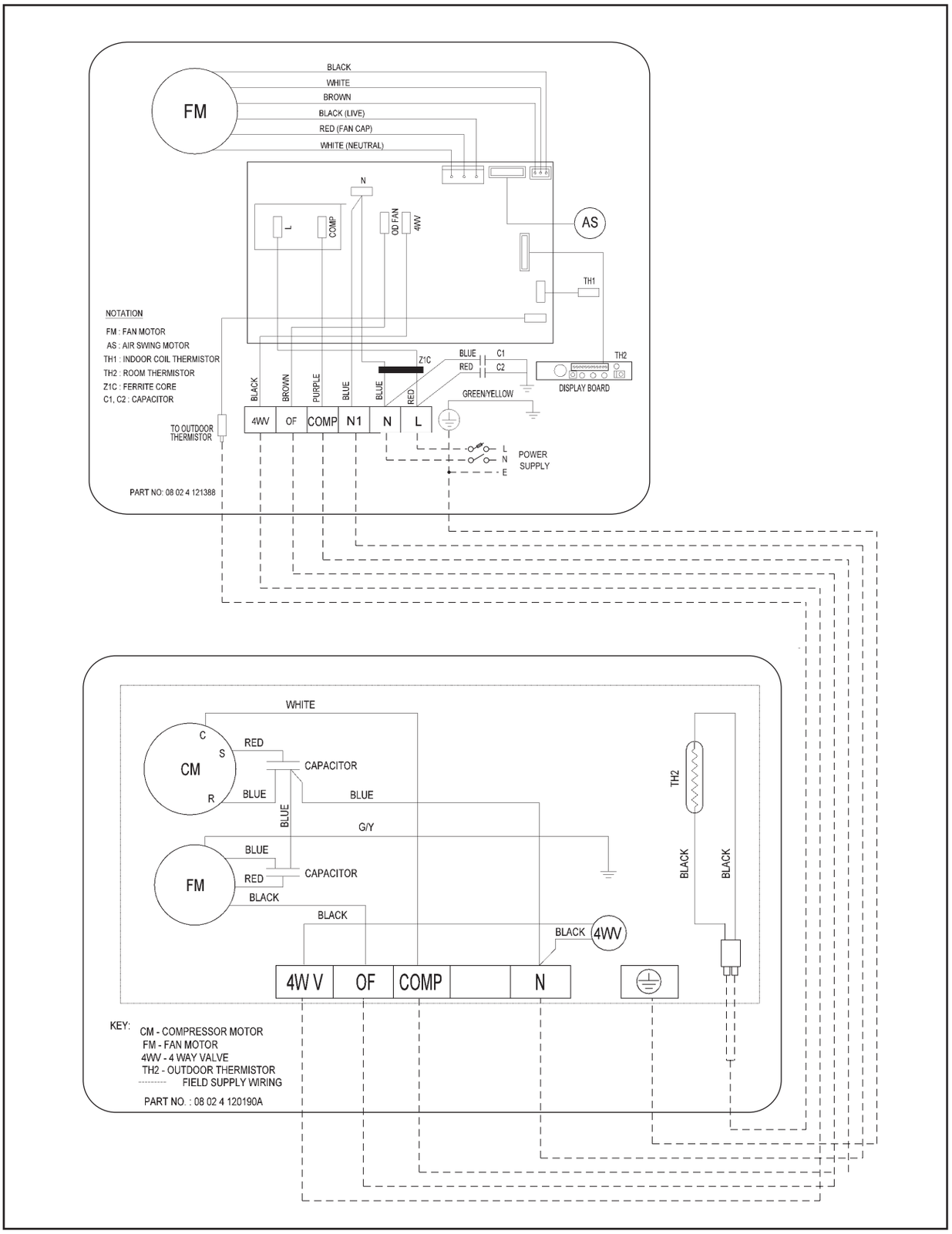
Outdoor Unit
Model: RYN25/35CJXV1



DAIKIN_FT(Y)N.indb 42 1/8/2013 10:44:22 AM

Indoor Unit
Model: FTYN50/60JXV1

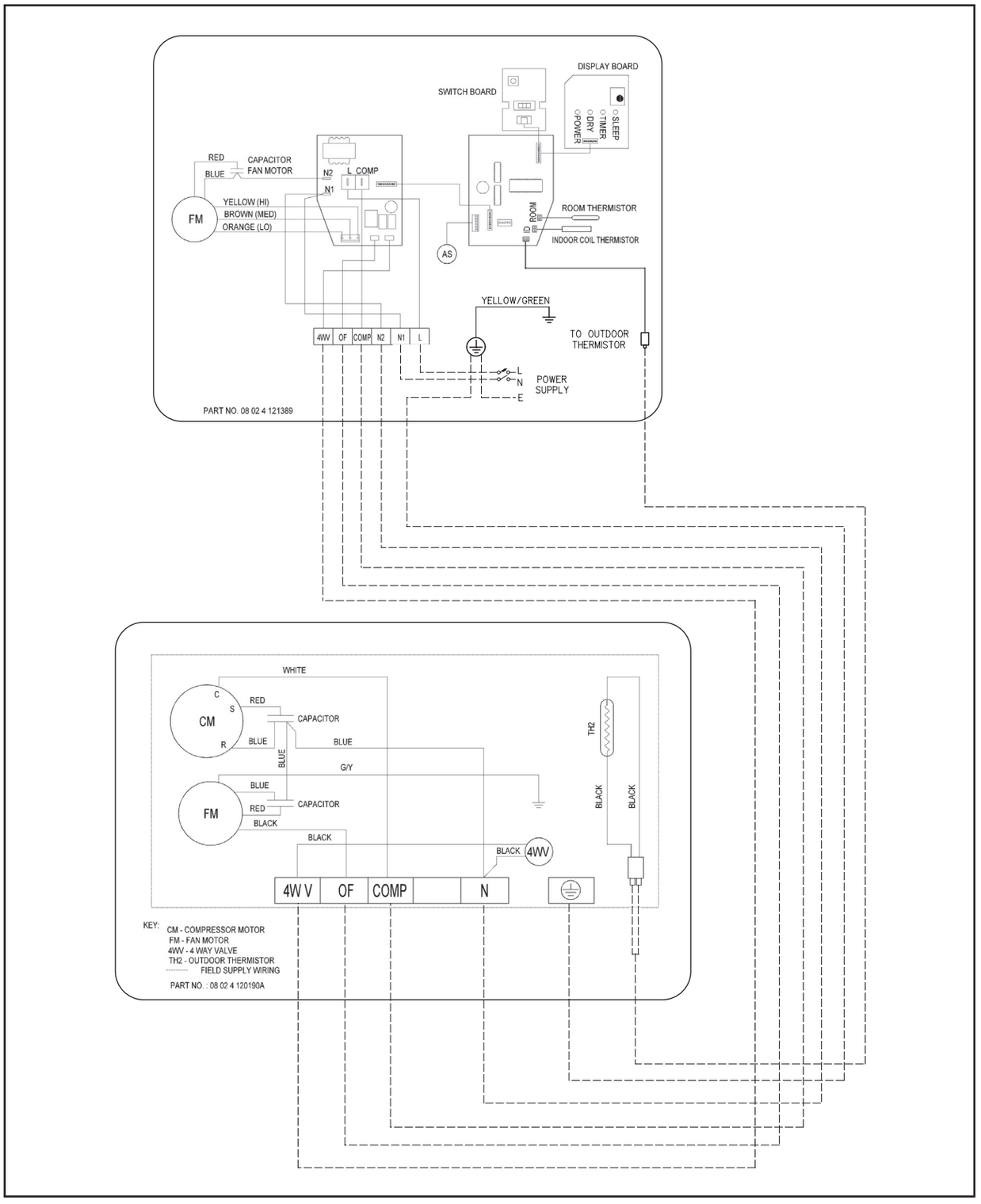
Outdoor Unit
Model: RYN50/60CJXV1



DAIKIN_FT(Y)N.indb 43 1/8/2013 10:44:22 AM

Indoor Unit
Model: FTYN80FXV1

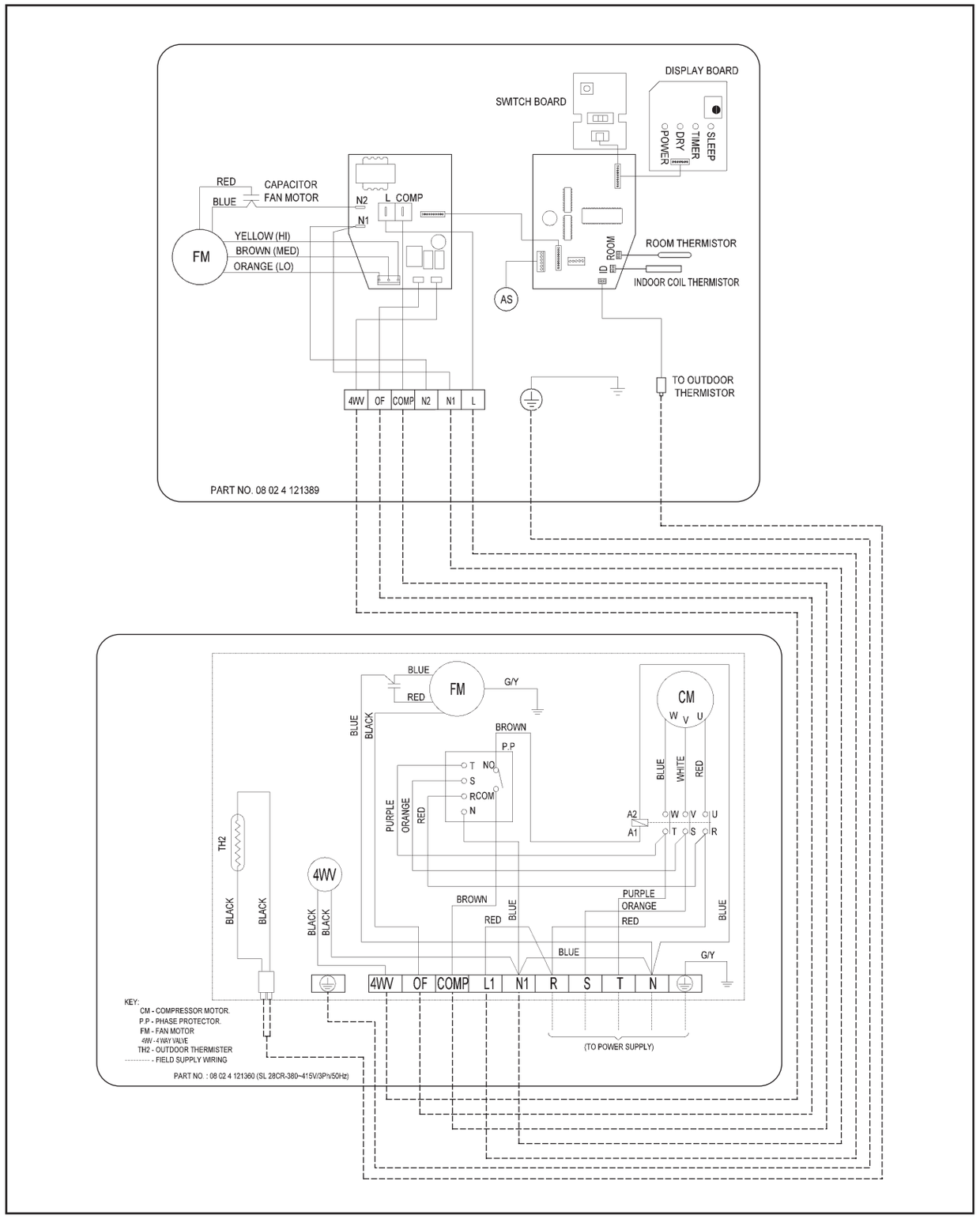
Outdoor Unit
Model: RQ71CXV1



DAIKIN_FT(Y)N.indb 44 1/8/2013 10:44:22 AM

Indoor Unit
Model: FTYN80FXV1

Outdoor Unit
Model: RQ71CXY1



DAIKIN_FT(Y)N.indb 45 1/8/2013 10:44:22 AM

Service & Maintenance

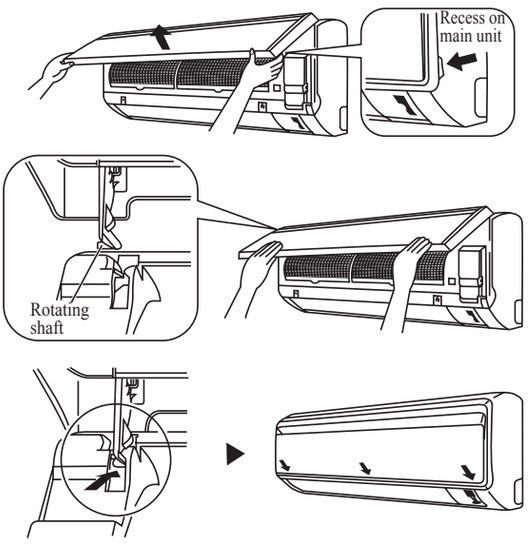
⚠ Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40˚C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter.	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40˚C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit.	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.

Indoor Models

1. Open the front panel
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.
2. Remove the front panel
   - While lifting the front panel further, slide it to the right and pull it to the front side. The left rotating shaft is detached. Slide the right rotating shaft to the left and pull it to the front side to remove it.
3. Attach the front panel
   - Align the right and left rotating shafts of the front panel with the grooves and push them all the way in.
   - Gently close the front panel. (Push both ends and the center on the front panel.)



⚠ Caution

- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

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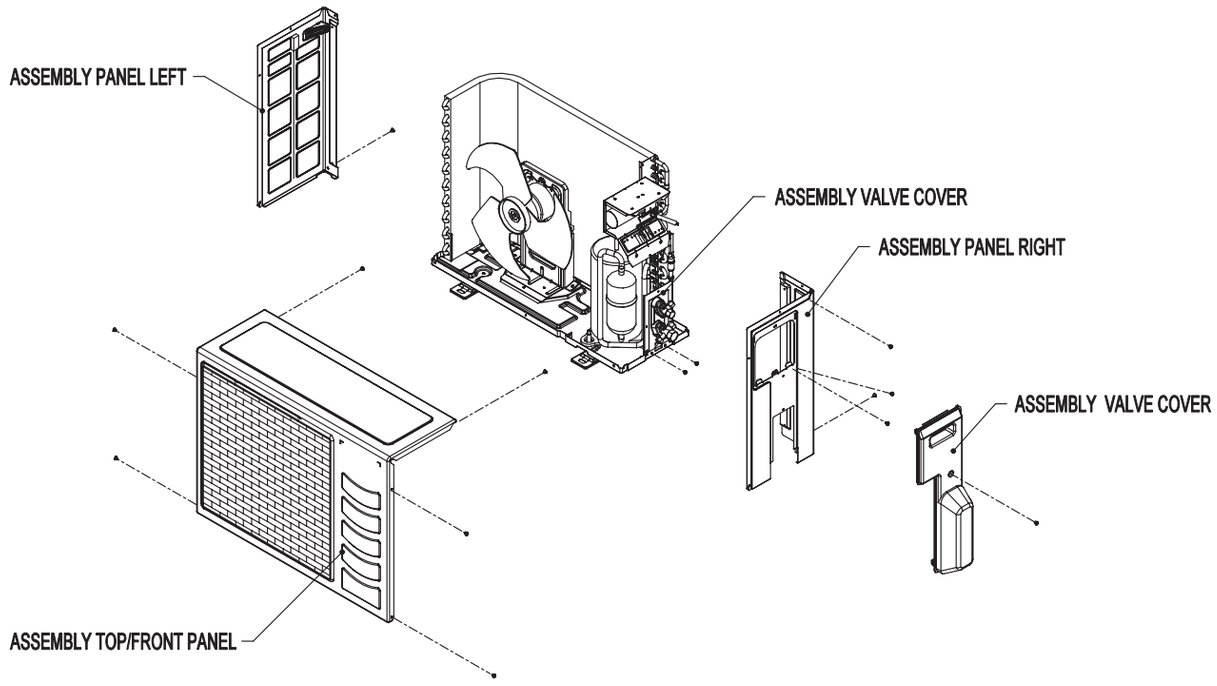
Pre Start Up Maintenance

(After Extended Shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensates drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

Outdoor Models

The design of the RN/RYN-C/CJ outdoor series allows servicing to be carried out easily. The removal of the top, front and side panels makes almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once every 3 months. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

⚠ Caution

- Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperature and pressure.
- It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

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Troubleshooting

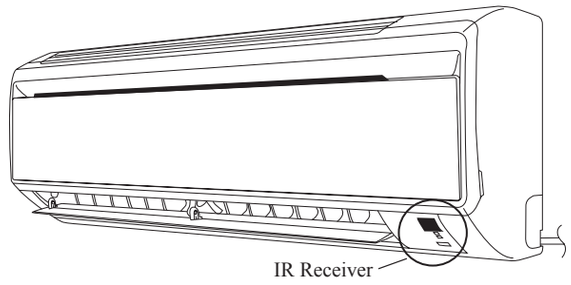
Indicator Lights

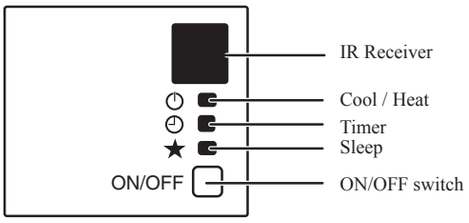
IR Signal Receiver
When an infra red remote control operating signal has been transmitted, the signal receiver on the indoor unit will respond as below to confirm acceptance of the signal transmission.

ON to OFF	1 Long Beep
OFF to ON Pump down/Cool force on	2 Short Beep
Others	1 Short Beep

Cooling Unit / Heatpump Unit

The table below shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions. The LED lights are located at the middle of the air conditioner unit.
The heatpump units are equipped with an “auto” mode sensor whereby it will provide reasonable room temperature by switching automatically to either “cool” or “heat” mode according to the temperature set by the user.





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LED Indoor Lights: Normal Operation and Fault Conditions for Cooling / Heatpump Unit

★	COOL/HEAT (GREEN/RED)	◷	Error Code	Normal Operation / Fault Indication	Action
○/●	○ Green		-	Cool mode	-
○/●	○ Red		-	Heat mode	-
○/●	○ Red		-	Auto mode in Heating operation	-
○/●	○ Green		-	Auto mode in Cooling operation	-
	○	○	-	Time on	-
○	○		-	Sleep mode on	-
	○		-	Fan mode on	-
	○		-	Dry mode on	-
	◑ 1 time		Blink E1	Room air sensor contact loose / short	Call your dealer
	◑ 3 times		Blink E3	Outdoor coil sensor open	Call your dealer
◑ continuosly	◑ 2 times		Blink E2	Indoor coil sensor open	Call your dealer
		◑ 1 time	Blink E4	Compressor overload / indoor coil sensor short / outdoor coil sensor short	Call your dealer
	◑ Red		-	Defrost operation	-
		◑ 3 times	Blink E5	Gas leak	Call your dealer
		◑ 6 times	Blink E8	Hardware error (tact switch pin short)	Call your dealer
◑ continuosly	◑ 4 times		Blink E9	No feedback from indoor fan	Call your dealer
	◑ 5 times		Blink EE	EEPROM error	Call your dealer

○ ON ○/● ON or OFF ◑ Blinking

Note:
The unit will not detect sensor missing when the compressor is ON.

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LED Indicator Lights: Normal Operation and Fault Conditions for Cooling Unit FTN80F

Power	Dry	Timer	Sleep	Operation / Fault Indication	Action
○		○		Timer on	-
○			○	Sleep mode on	-
○	○			Dry mode	-
◑	○/●			Frost prevention	Clean the filter and switch to high fan
◑ 1 time				Room air sensor contact loose/ short	Call your dealer
◑◑ 2 times				Indoor coil sensor contact loose/ short	Call your dealer
◑◑◑ 3 times				Sensor contact problem, compressor overload protection trip or gas leak	Call your dealer

○ ON ○/● ON or OFF ◑ Blinking

LED Indicator Lights: Normal Operation and Fault Conditions for Heat Pump Unit FTYN80F

Cool	Dry	Fan	Heat	Sleep	Normal Operation / Fault Condition	Action
○				○/●	Cooling mode	-
	○				Dry mode	-
		○			Fan mode	-
			○	○/●	Heat mode	-
◑			○	○/●	Auto mode in heating operation	-
○			◑	○/●	Auto mode in cooling operation	-
			◑		Defrost operation	-
◑					Compressor overload protection	Call your dealer
				◑	Indoor coil sensor contact loose/ short	Call your dealer
	◑				Outdoor coil sensor contact loose/short	Call your dealer
		◑			Room air sensor contact loose/ short	Call your dealer
◑	◑				If the system is in cool mode or heat mode (with the sleep function off), the sensor may have a contact problem, compressor overload protection trip or gas leak	

○ ON ○/● ON or OFF ◑ Blinking

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Phase Sequencer

The unit with Scroll Compressor only can rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

LED / Description	PW (Red)	P_R (Yellow)	P_S (Yellow)	P_T (Yellow)	Actions
Normal Operation	○	●	●	●	-
Reverse Phase	◑	◑	◑	◑	Switch off the unit. Check the 3 phase wiring.
T Phase Missing	◑	●	●	◑	Switch off the unit. Check the 3 phase wiring.
S Phase Missing	◑	●	◑	●	Switch off the unit. Check the 3 phase wiring.
R Phase Missing	●	●	●	●	Switch off the unit. Check the 3 phase wiring.
S & T Phase Missing*	◑	●	◑	◑	Switch off the unit. Check the 3 phase wiring.
Overload*	◑	●	●	●	High discharge temperature. Check refrigerant system.
Sensor Missing*	◑	○	○	○	Switch off the unit. Plug in sensor.

○ ON ● OFF ◑ BLINK

Note:
1. " * " indicates additional function for PP01 phase sequencer.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (COMMON) and 81 (NO) will cut off.
3. The unit will check discharge sensor availability only during power up.
4. All errors can only recover through manually reset.

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Error Code / Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	• Protection against frequent starting. • Wait for 3 or 4 minutes for the compressor to start operating by itself.
3	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating). Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

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Diagnostic Guidelines

By means of pressure readings:

Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air). 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side **Low side**	•				•	1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	•	•				1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side **Low side**				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air).
High side **Low side**				•	•	1. Air intake temperature of indoor unit too high.

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DAIKIN

R410A

TECHNICAL MANUAL

Split Unit Air Conditioner
Ceiling Cassette C & E Series

FCQN-E, FFQN-C, FCRN-E, FFRN-C

— Cooling only & Heatpump [50Hz] —



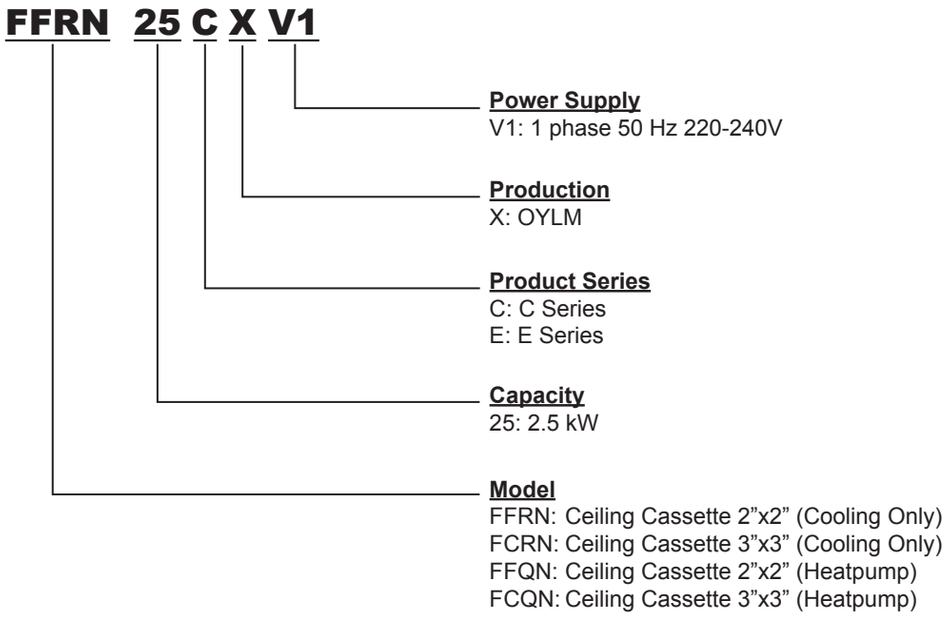
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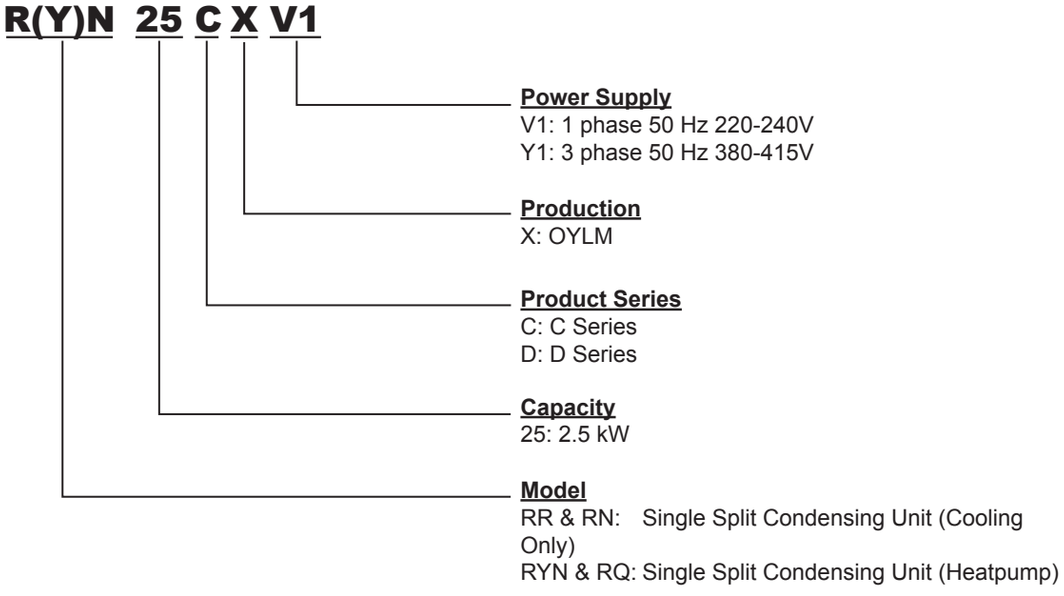
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Nomenclature

Indoor



Outdoor



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Product Line-Up

Indoor Unit
FCQN-E, FFQN-C, FCRN-E, FFRN-C

Nomenclature		Classification										
		Panel (Handset)				PCB				Fin	Refrigerant Control	
		BC20CXW (BRC52A62)	BYC20CXW (BRC52A61)	BC50EXW (BRC52A62)	BYC50EXW (BRC52A61)	L208A EC	L208A AP	L2CKE EC	L2CKE AP	Hydrophilic (Blue)	Cap Tube	w/o Cap Tube
COOLING	FFRN25CXV1	X				X				X		X
	FFRN35CXV1	X				X				X		X
	FFRN50CXV1	X				X				X		X
	FCRN50EXV1			X				X		X		X
	FCRN60EXV1			X				X		X		X
	FCRN71EXV1			X				X		X	X	
	FCRN100EXV1			X				X		X	X	
	FCRN125EXV1			X				X		X	X	
HEATPUMP	FFQN25CXV1		X				X			X		X
	FFQN35CXV1		X				X			X		X
	FFQN50CXV1		X				X			X		X
	FCQN50EXV1				X				X	X		X
	FCQN60EXV1				X				X	X		X
	FCQN71EXV1				X				X	X		X
	FCQN100EXV1				X				X	X		X
	FCQN125EXV1				X				X	X		X

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Outdoor Unit
R(Y)N / RR / RQ

Nomenclature		Classification												
		Refrigerant Control		Fin			Safety Devices				Compressor		Others	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow	
COOLING	RN25CXV1	X				X						X		
	RN25CGXV1	X			X							X		
	RN35CXV1	X				X						X		
	RN35CGXV1	X			X							X		
	RN50CXV1	X				X						X		
	RN50CGXV1	X			X							X		
	RN60CXV1	X				X						X		
	RN60CGXV1	X			X							X		
	RR71CXV1	X				X						X		
	RR71CGXV1	X			X							X		
	RR90DXV1	X				X		X	X		X			
	RR90DGXV1	X			X			X	X		X			
	RR100DXV1	X				X		X	X		X			
	RR100DGXV1	X			X			X	X		X			
	RR100DXY1	X				X	X	X	X	X	X			
	RR100DGXY1	X			X		X	X	X	X	X			
	RR125DXY1	X				X	X	X	X	X	X			
	RR125DGXY1	X			X		X	X	X	X	X			

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Nomenclature		Classification												
		Refrigerant Control		Fin			Safety Devices				Compressor		Others	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow
HEATPUMP	RYN25CXV1	X				X						X	X
	RYN25CGXV1	X			X							X	X
	RYN35CXV1	X				X						X	X
	RYN35CGXV1	X			X							X	X
	RYN50CXV1	X				X						X	X
	RYN50CGXV1	X			X							X	X
	RYN60CXV1	X				X						X	X
	RYN60CGXV1	X			X							X	X
	RQ71CXV1	X				X						X	X
	RQ71CGXV1	X			X							X	X
	RQ90DXV1	X				X		X	X		X		X
	RQ90DGXV1	X			X			X	X		X		X
	RQ100DXV1	X				X		X	X		X		X
	RQ100DGXV1	X			X			X	X		X		X
	RQ100DXY1	X				X	X	X	X	X	X		X
	RQ100DGXY1	X			X		X	X	X	X	X		X
	RQ125DXY1	X				X	X	X	X	X	X		X
	RQ125DGXY1	X			X		X	X	X	X	X		X

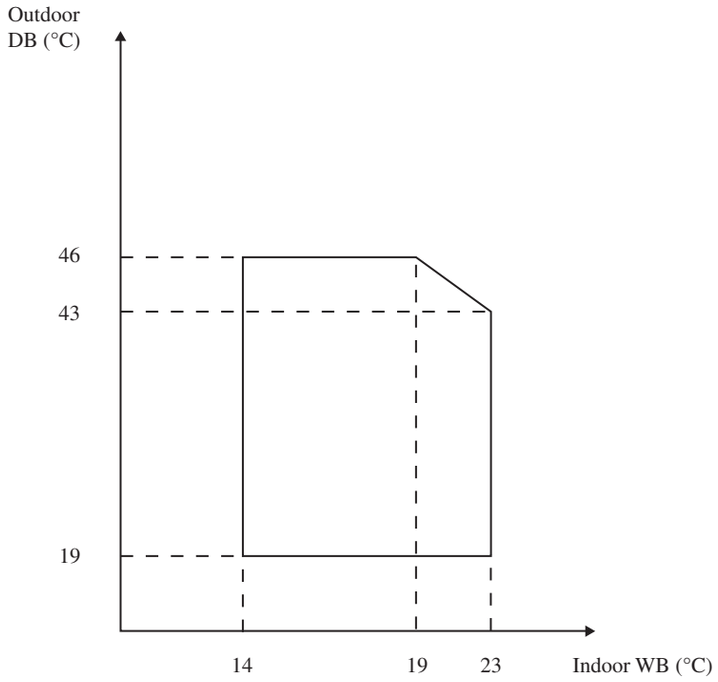
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Application Information

Operating Range

Ensure the operating temperature is in allowance range.

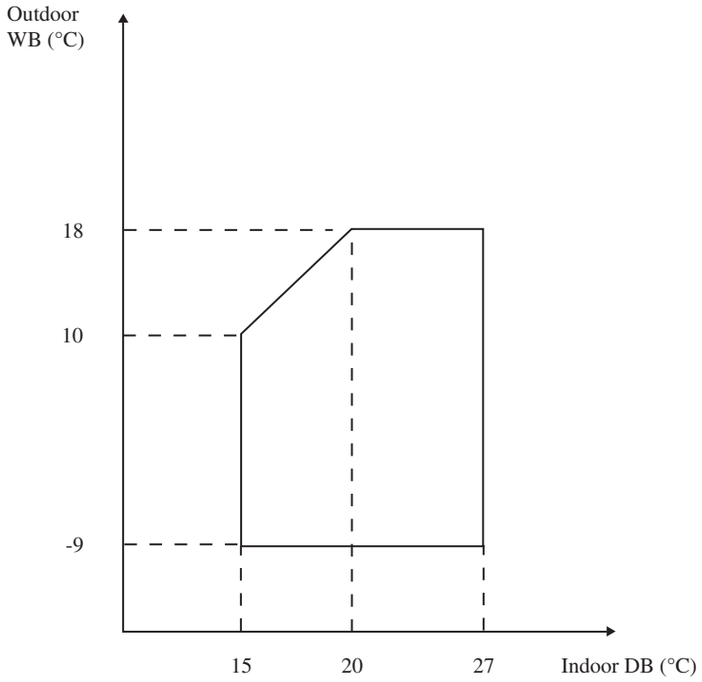
Cooling



⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heating



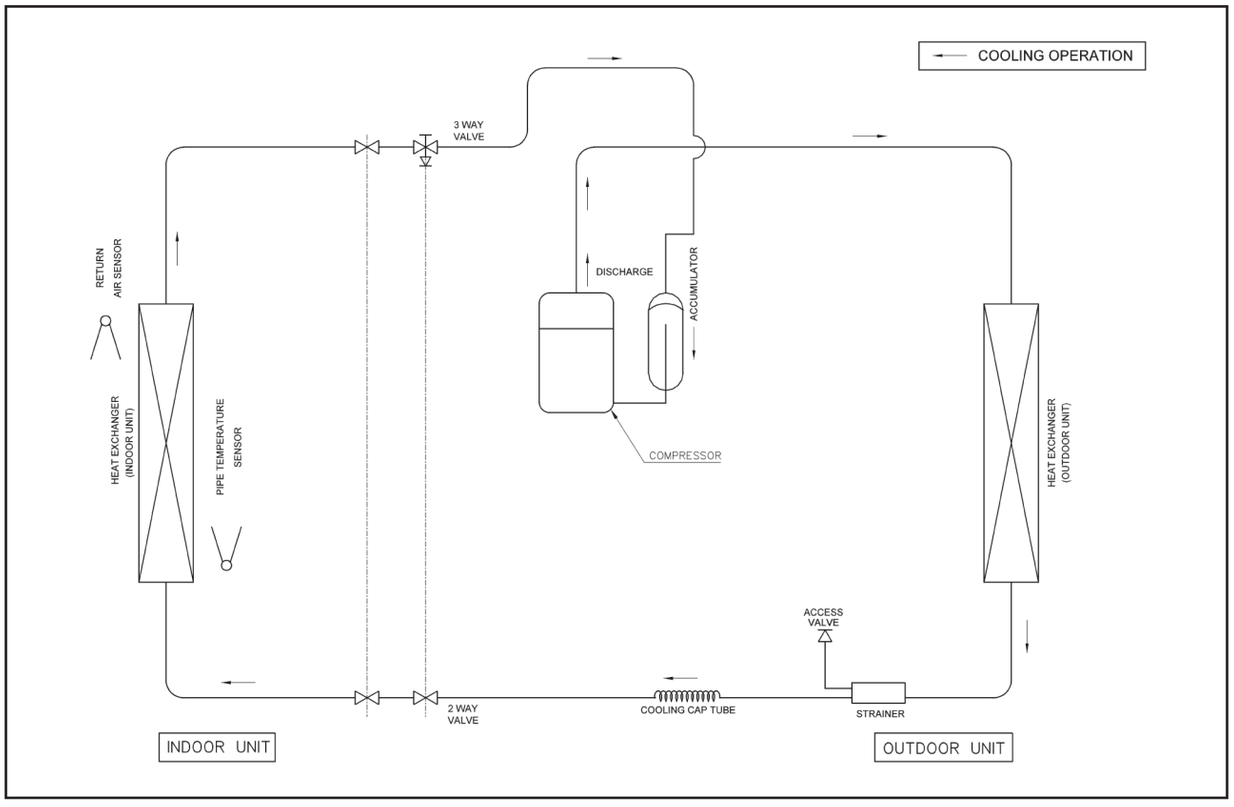
⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

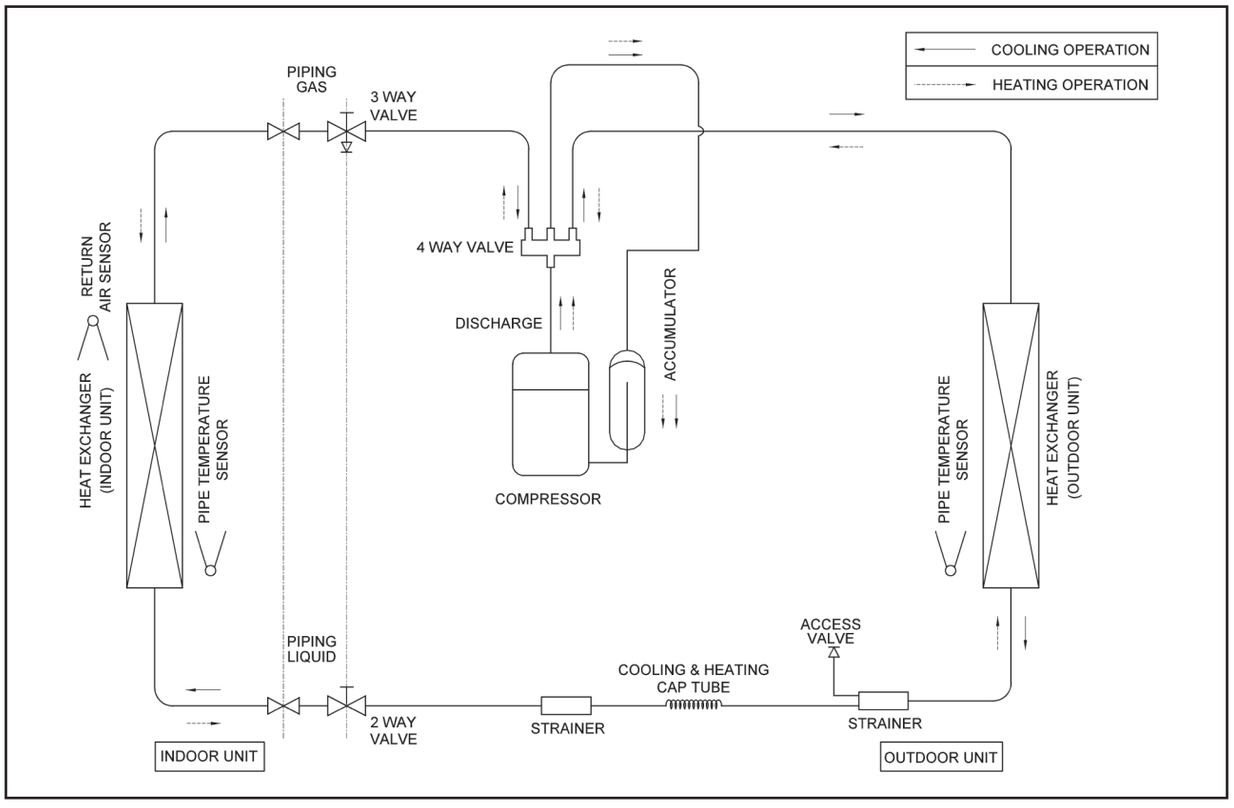
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Refrigerant Circuit Diagrams (C Series)

Model: FFRN25CXV1 – RN25CXV1 / FFRN35CXV1 – RN35CXV1 / FFRN50CXV1 – RN50CXV1

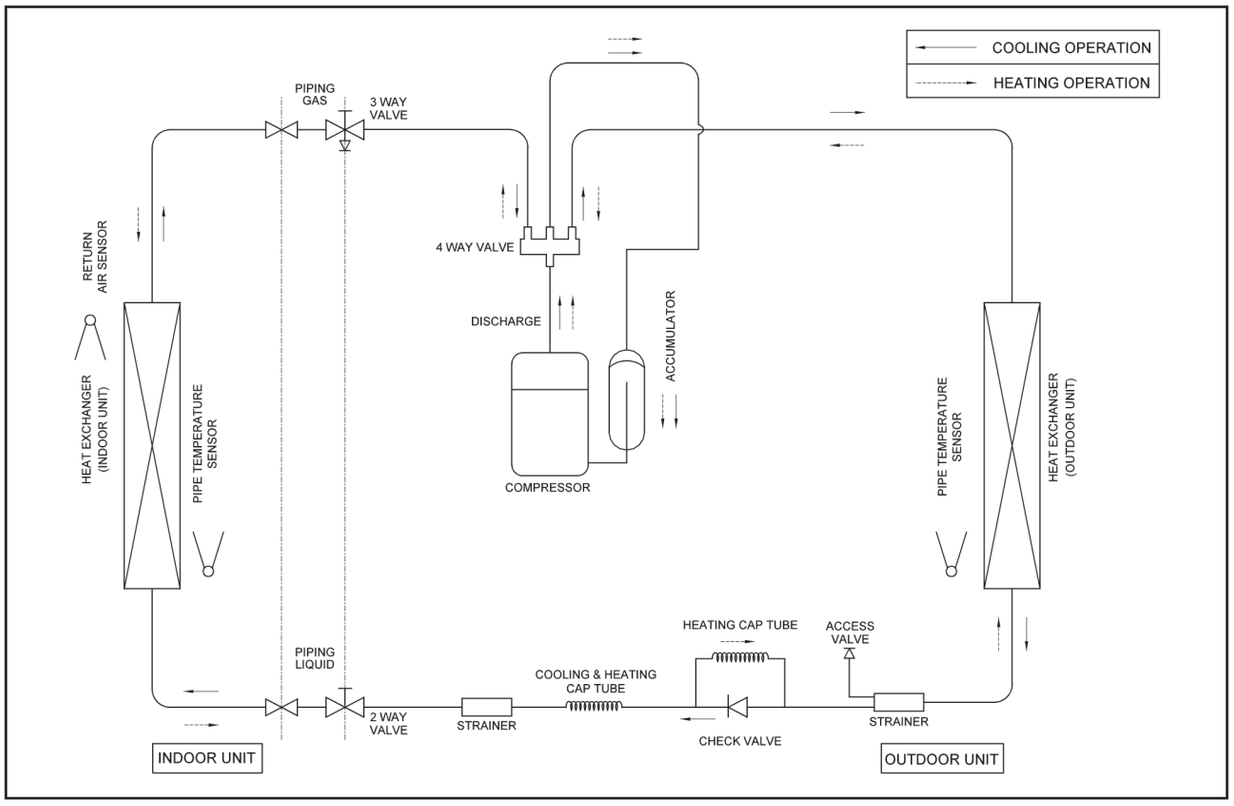


Model: FFQN25CXV1 – RYN25CXV1



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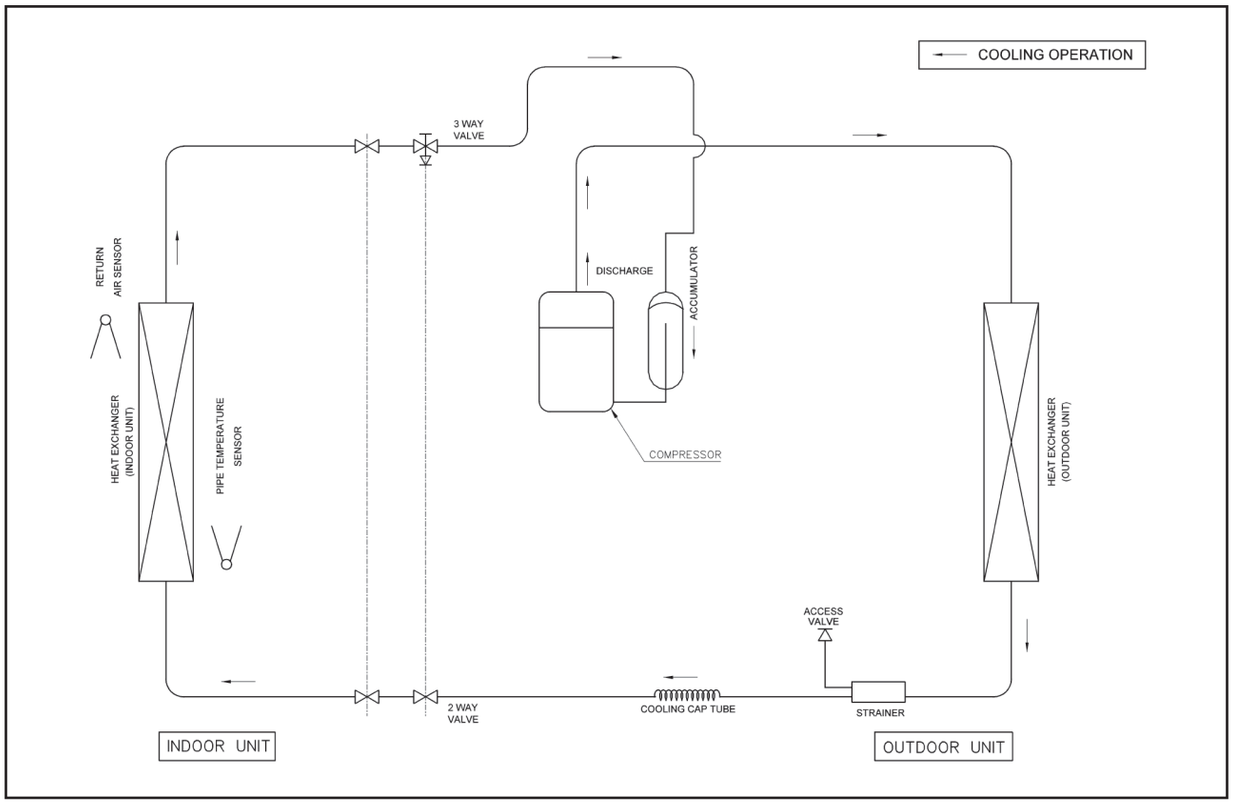
Model: FFQN35CXV1 – RYN35CXV1 / FFQN50CXV1 – RYN50CXV1



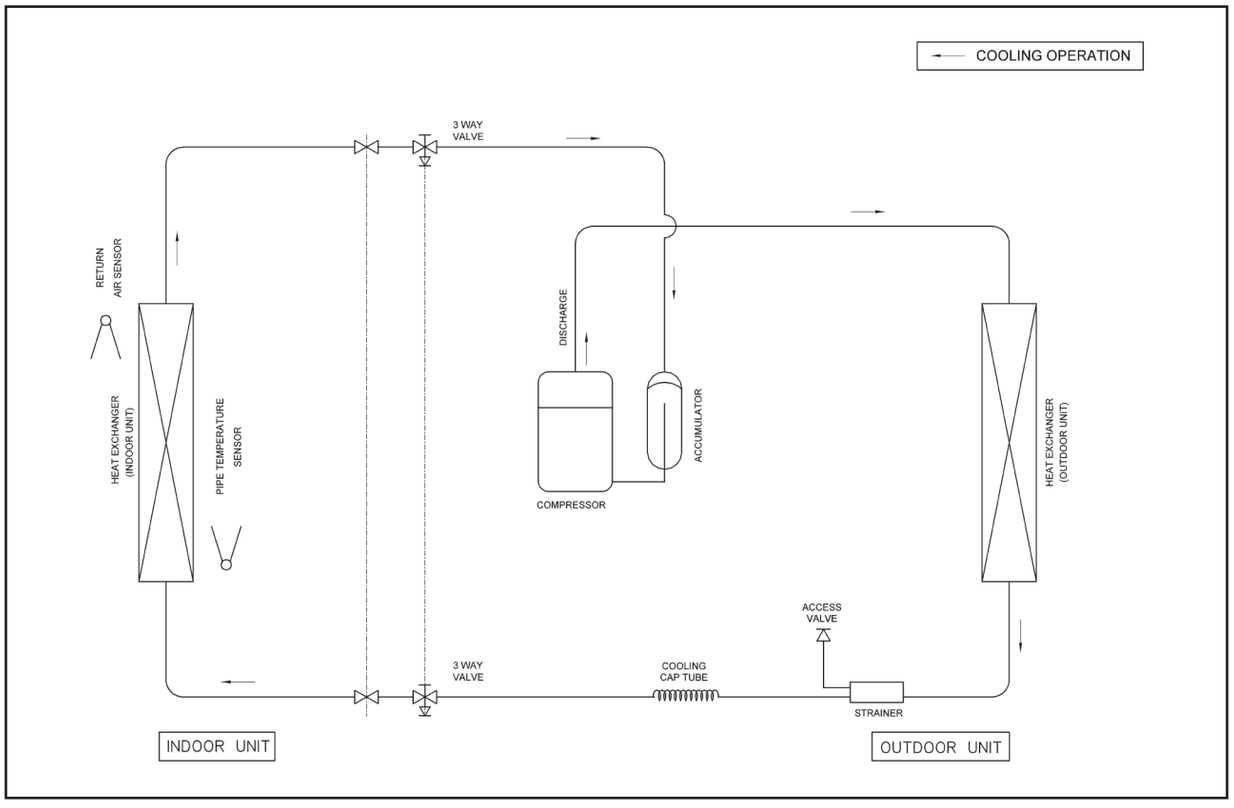
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Refrigerant Circuit Diagrams (E Series)

Model: FCRN50EXV1 – RN50CXV1 / FCRN60EXV1 – RN60CXV1

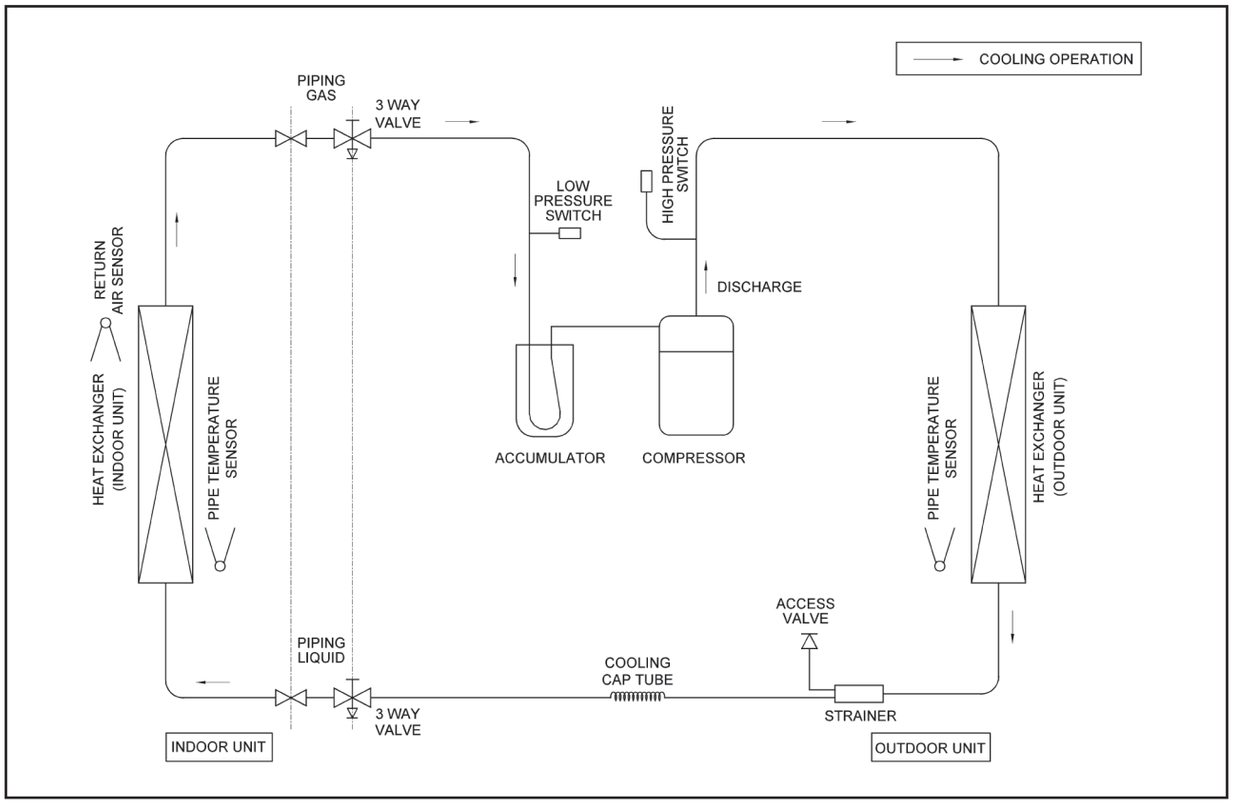


Model: FCRN71EXV1 – RR71CXV1

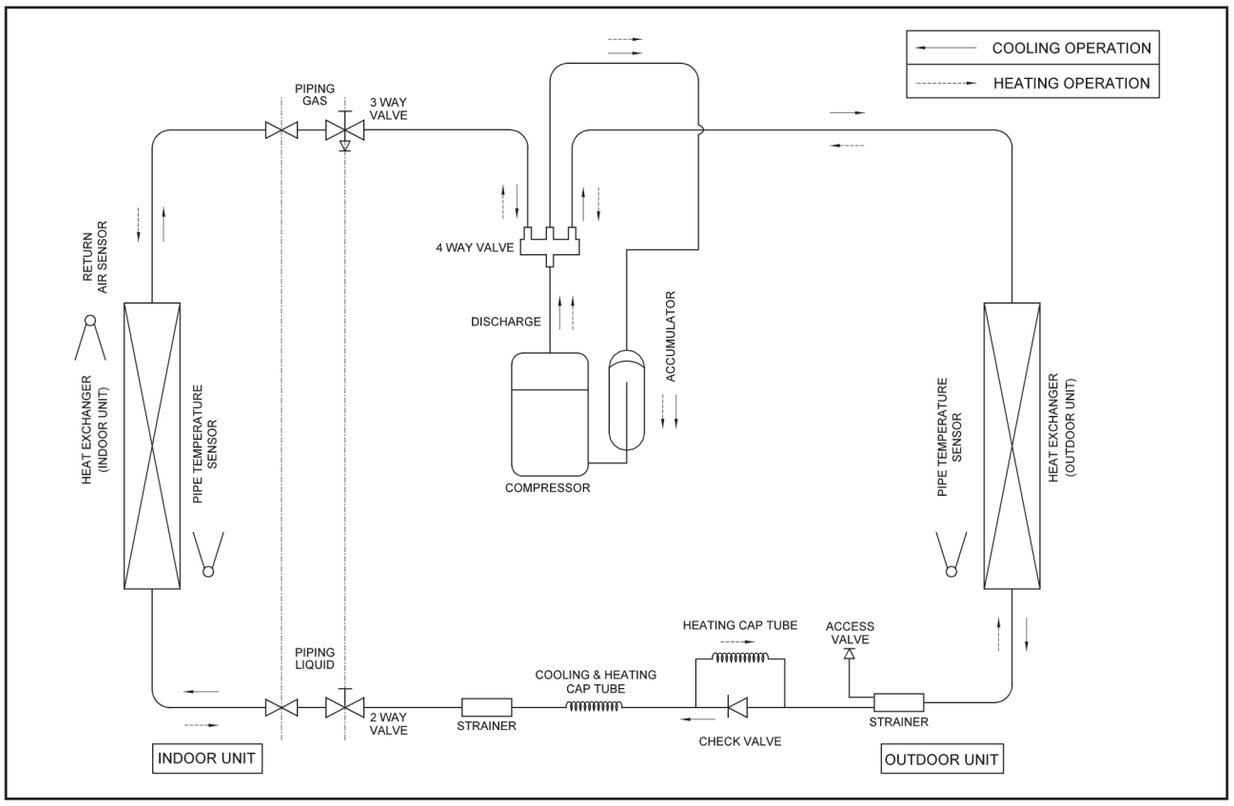


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Model: FCRN100EXV1 – RR90DXV1 / FCRN100EXV1 – RR100DXV1 / FCRN100EXV1 – RR100DXY1 / FCRN125EXV1 – RR125DXY1

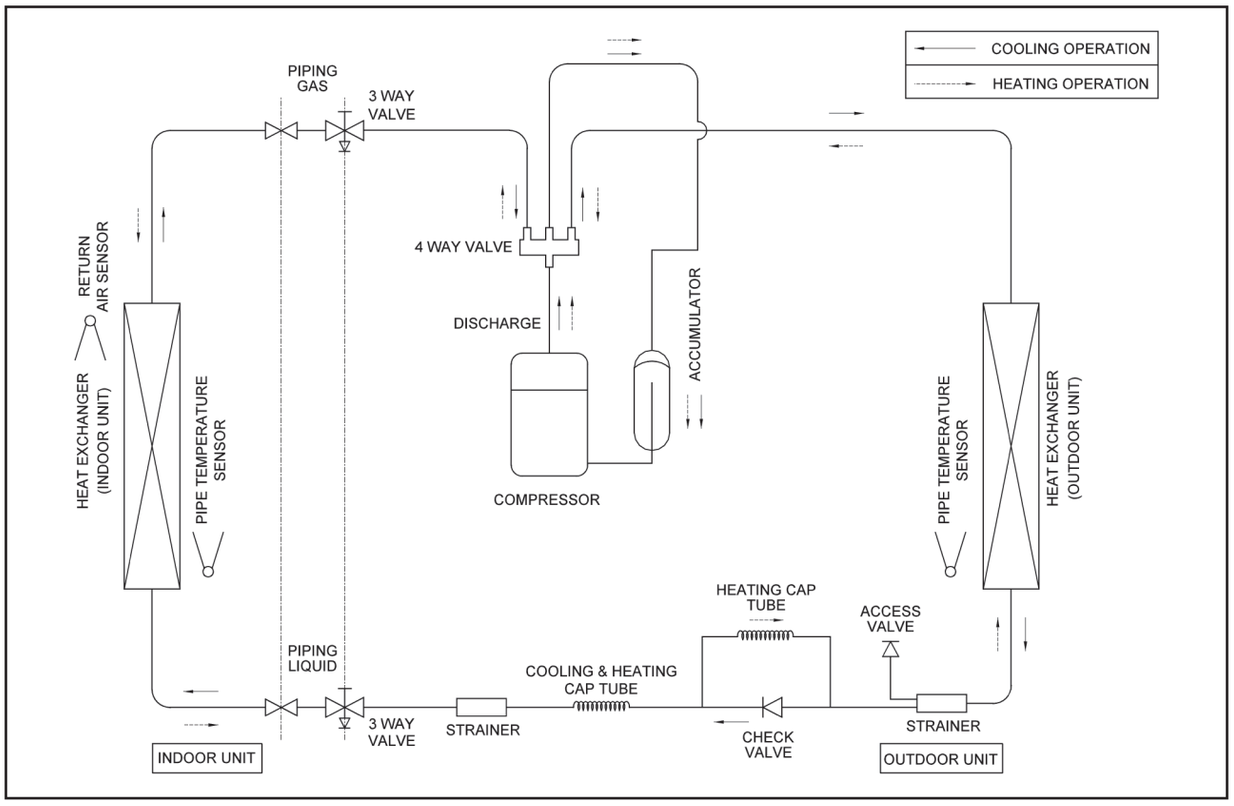


Model: FCQN50EXV1 – RYN50CXV1 / FCQN60EXV1 – RYN60CXV1

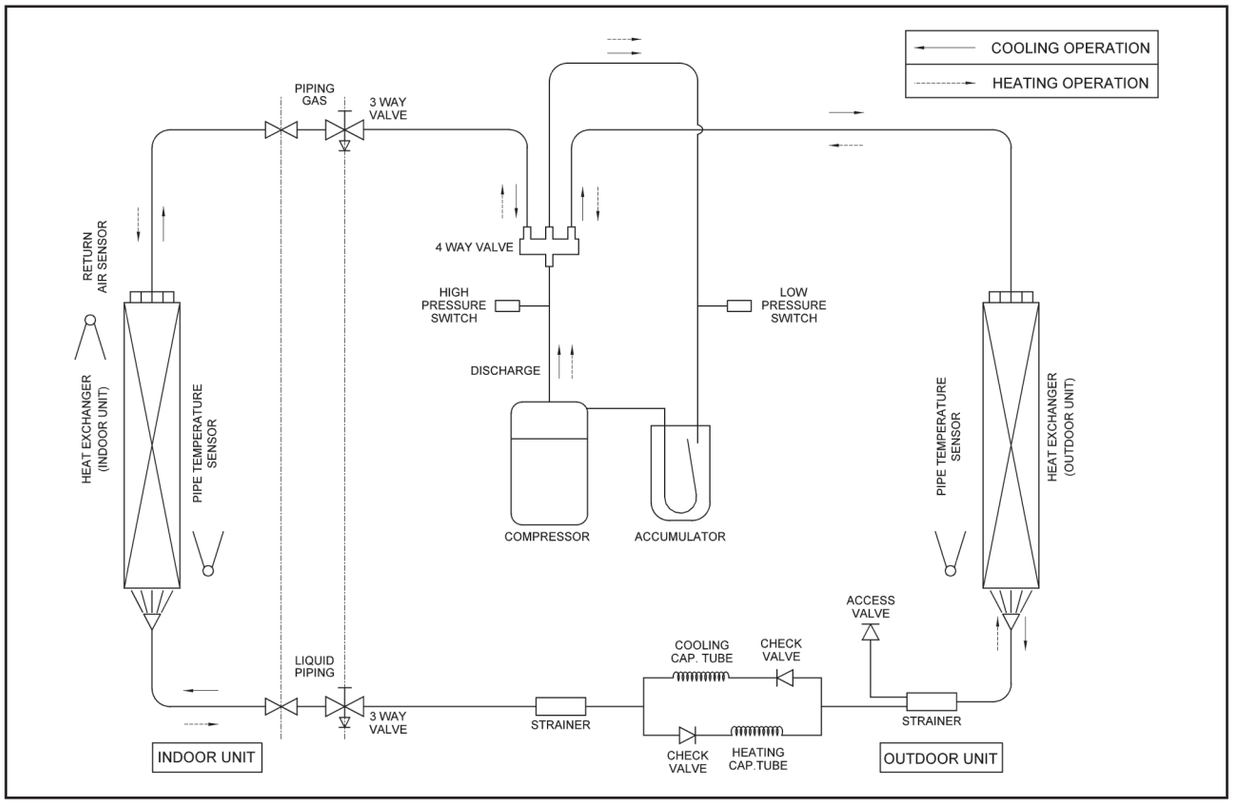


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Model: FCQN71EXV1 – RQ71CXV1



Model: FCQN100EXV1 – RQ90DXV1 / FCQN100EXV1 – RQ100DXV1 / FCQN100EXV1 – RR100DXY1 / FCQN125EXV1 – RR125DXY1



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Installation Guideline

Safety Precautions

⚠ WARNING

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazard due to insulation failure.
- All electrical wiring must not touch the refrigerant piping or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Disconnect from the main power supply before servicing the air conditioner unit.
- DO NOT pull out the power cord when the power is ON. This may cause serious electrical shocks which may result in fire hazards.
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static. {Depending on the type and source of the electrical waves, static may be heard even when more than 1m away}.

⚠ CAUTION

Please take note of the following important points when installing.

- **Do not install the unit where leakage of flammable gas may occur.**

  If gas leaks and accumulates around the unit, it may cause fire ignition.

- **Ensure that drainage piping is connected properly.**

  If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.

- **Do not overcharge the unit.**

  This unit is factory pre-charged. Overcharge will cause over-current or damage to the compressor.

- **Ensure that the unit's panel is closed after service or installation.**

  Unsecured panels will cause the unit to operate noisily.

- **Sharp edges and coil surfaces are potential locations which may cause injury hazards. Avoid from being in contact with these places.**
- **Before turning off the power supply, set the remote controller's ON/OFF switch to the "OFF" position to prevent the nuisance tripping of the unit.** If this is not done, the unit's fans will start turning automatically when power resumes, posing a hazard to service personnel or the user.
- **Do not operate any heating apparatus too close to the air conditioner unit.** This may cause the plastic panel to melt or deform as a result of the excessive heat.
- **Ensure the color of wires of the outdoor unit and the terminal markings are same to the indoors respectively.**
- **IMPORTANT : DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM.**
- **Do not use joined and twisted wires for incoming power supply.**

NOTICE

Disposal requirements

Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

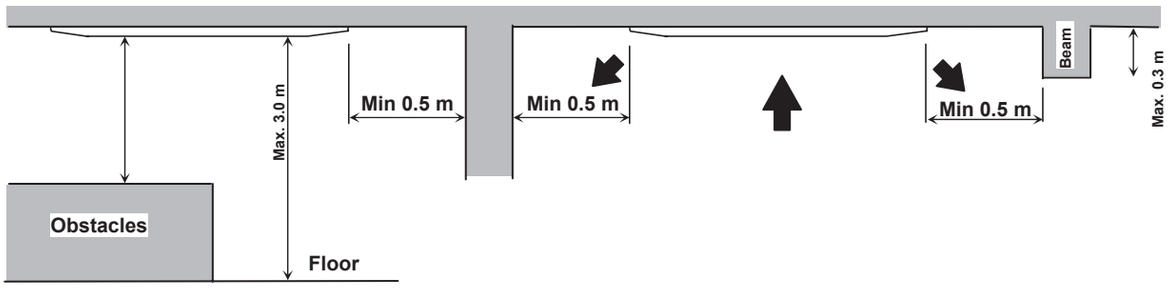
Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

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1) Indoor Installation Clearance

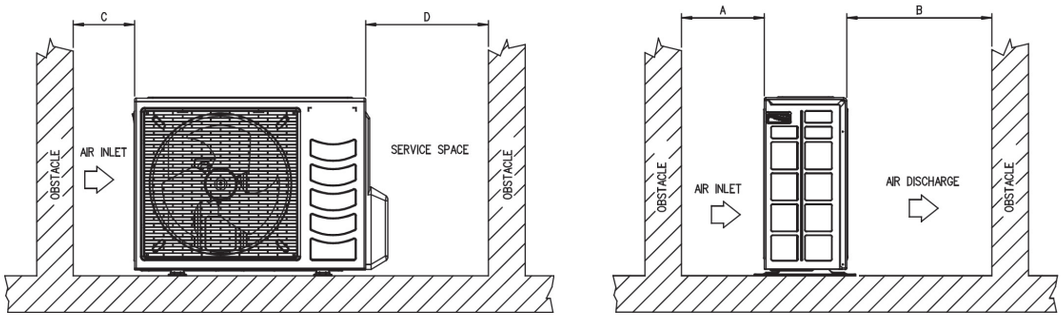
Clearance must be provided for the indoor unit from wall and obstacles as shown in figure below.



The installation place (handling ceiling surface) must be level and the height in the ceiling is 350mm or more.

2) Outdoor Installation Clearance

Outdoor unit must be installed such that there is no short circuit of the hot discharge air or obstruction to smooth air flow. Select the coolest possible place where intake air should not hotter than the outside temperature (Max. 45°C).



ALL MODELS	A	B	C	D
Minimum Distance	300 mm	1000 mm	300 mm	500 mm

⚠ Caution

If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such substances may lead to failure the unit.

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3) Cable Size

Cooling only

Model	Unit	FFRN25/35CXV1	FFRN50CXV1	FCRN50EXV1
		RN25/35CXV1	RN50CXV1	RN50CXV1
Power supply cable size Number of wire	mm²	1.5 3	2.5 3	2.5 3
Interconnection cable size Number of wire	mm²	1.5 3	2.5 3	2.5 3
Recommended fuse	A	15	20	13

Model	Unit	FCRN60EXV1	FCRN71EXV1	FCRN100EXV1
		RN60CXV1	RR71CXV1	RR90DXV1
Power supply cable size Number of wire	mm²	2.5 3	4.0 3	4.0 3
Interconnection cable size Number of wire	mm²	2.5 3	2.5 3	2.5 4
Recommended fuse	A	18	25	25

Model	Unit	FCRN100EXV1	FCRN100EXV1	FCRN125EXV1
		RR100DXV1	RR100DXY1	RR125DXY1
Power supply cable size Number of wire	mm²	4.0 3	2.5 5	4.0 5
Interconnection cable size Number of wire	mm²	2.5 4	1.5 4	1.5 4
Recommended fuse	A	30	13	18

Heatpump

Model	Unit	FFQN25/35CXV1	FFQN50CXV1	FCQN50EXV1
		RYN25/35CXV1	RYN50CXV1	RYN50CXV1
Power supply cable size Number of wire	mm²	1.5 3	2.5 3	2.5 3
Interconnection cable size Number of wire	mm²	1.5 5	2.5 5	2.5 5
Recommended fuse	A	15	20	13

Model	Unit	FCQN60EXV1	FCQN71EXV1	FCQN100EXV1
		RYN60CXV1	RQ71CXV1	RQ90DXV1
Power supply cable size Number of wire	mm²	2.5 3	4.0 3	4.0 3
Interconnection cable size Number of wire	mm²	2.5 5	2.5 5	2.5 3 & 4
Recommended fuse	A	18	25	25

Model	Unit	FCQN100EXV1	FCQN100EXV1	FCQN125EXV1
		RQ100DXV1	RQ100DXY1	RQ125DXY1
Power supply cable size Number of wire	mm²	4.0 3	2.5 5	2.5 5
Interconnection cable size Number of wire	mm²	2.5 3 & 4	1.5 3 & 4	1.5 3 & 4
Recommended fuse	A	30	13	18

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4) Refrigerant Piping

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:

Model	Indoor	FFRN25CXV1 FFQN25CXV1	FFRN35CXV1 FFQN35CXV1	FFRN50CXV1 FFQN50CXV1
	Outdoor	R(Y)N25CXV1	R(Y)N35CXV1	R(Y)N50CXV1
Max. Length, m		12	12	15
Max. Elevation, m		5	5	8
Max. No. of Bends		10	10	10

Model	Indoor	FCRN50EXV1 FCQN50EXV1	FCRN60EXV1 FCQN60EXV1	FCRN71EXV1 FCQN71EXV1
	Outdoor	R(Y)N50CXV1	R(Y)N60CXV1	RR71CXV1 RQ71CXV1
Max. Length, m		15	15	15
Max. Elevation, m		8	8	8
Max. No. of Bends		10	10	10

Model	Indoor	FCRN100EXV1 FCQN100EXV1		FCRN125EXV1 FCQN125EXV1
	Outdoor	RR90/100DXV1 RQ90/100DXV1	RR100DXY1 RQ100DXY1	RR125DXY1 RQ125DXY1
Max. Length, m		45		45
Max. Elevation, m		25		25
Max. No. of Bends		10		10

Piping sizes (flare connection type) are as follows:

Model	R(Y)N25CXV1	R(Y)N35CXV1	R(Y)N50CXV1
Liquid, mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
Suction, mm / in	9.52 / 3/8	12.70 / 1/2	12.70 / 1/2

Model	R(Y)N60CXV1	RR71CXV1 RQ71CXV1	RR90DXV1 RQ90DXV1
Liquid, mm / in	6.35 / 1/4	9.52 / 3/8	9.52 / 3/8
Suction, mm / in	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8

Model	RR100DXV1 RQ100DXV1	RR100DXY1 RQ100DXY1	RR125DXY1 RQ125DXY1
Liquid, mm / in	9.52 / 3/8		
Suction, mm / in	15.88 / 5/8		

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5) Additional Charge

- The refrigerant charge has already charged into the outdoor unit. For the piping length of 7.6m, additional refrigerant charge after vacuuming is not necessary.
- When the piping length is more than 7.6m, please use the table below (unit in gram).

Cooling Only

Indoor	FFRN25CXV1	FFRN35CXV1	FFRN50CXV1
Outdoor	RN25CXV1	RN35CXV1	RN50CXV1
Add. Charge, g/m	11	9	10

Indoor	FCRN50EXV1	FCRN60EXV1	FCRN71EXV1
Outdoor	RN50CXV1	RN60CXV1	RR71CXV1
Add. Charge, g/m	22	10	24

Indoor	FCRN100EXV1			FCRN125EXV1
Outdoor	RR90/100DXV1	RR100DXV1	RR100DXY1	RR125DXY1
Add. Charge, g/m	27	24	24	24

Heatpump

Indoor	FFQN25CXV1	FFQN35CXV1	FFQN50CXV1
Outdoor	RYN25CXV1	RYN35CXV1	RYN50CXV1
Add. Charge, g/m	15	18	12

Indoor	FCQN50EXV1	FCQN60EXV1	FCQN71EXV1
Outdoor	RYN50CXV1	RYN60CXV1	RQ71CXV1
Add. Charge, g/m	16	16	41

Indoor	FCQN100EXV1			FCQN125EXV1
Outdoor	RQ90/100DXV1	RQ100DXV1	RQ100DXY1	RQ125DXY1
Add. Charge, g/m	42	37	37	39

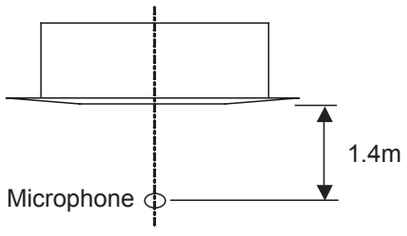
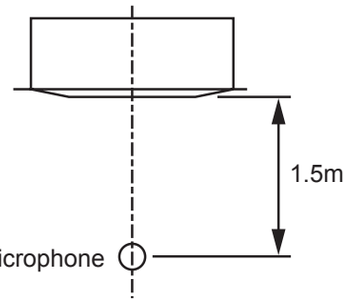
Example: FCRN60EXV1 & RN60CXV1 with 13m piping length, additional piping length is 5.5m. Thus,
Additional Charge = 5.5m x 10 g/m
= 55g

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Sound Data

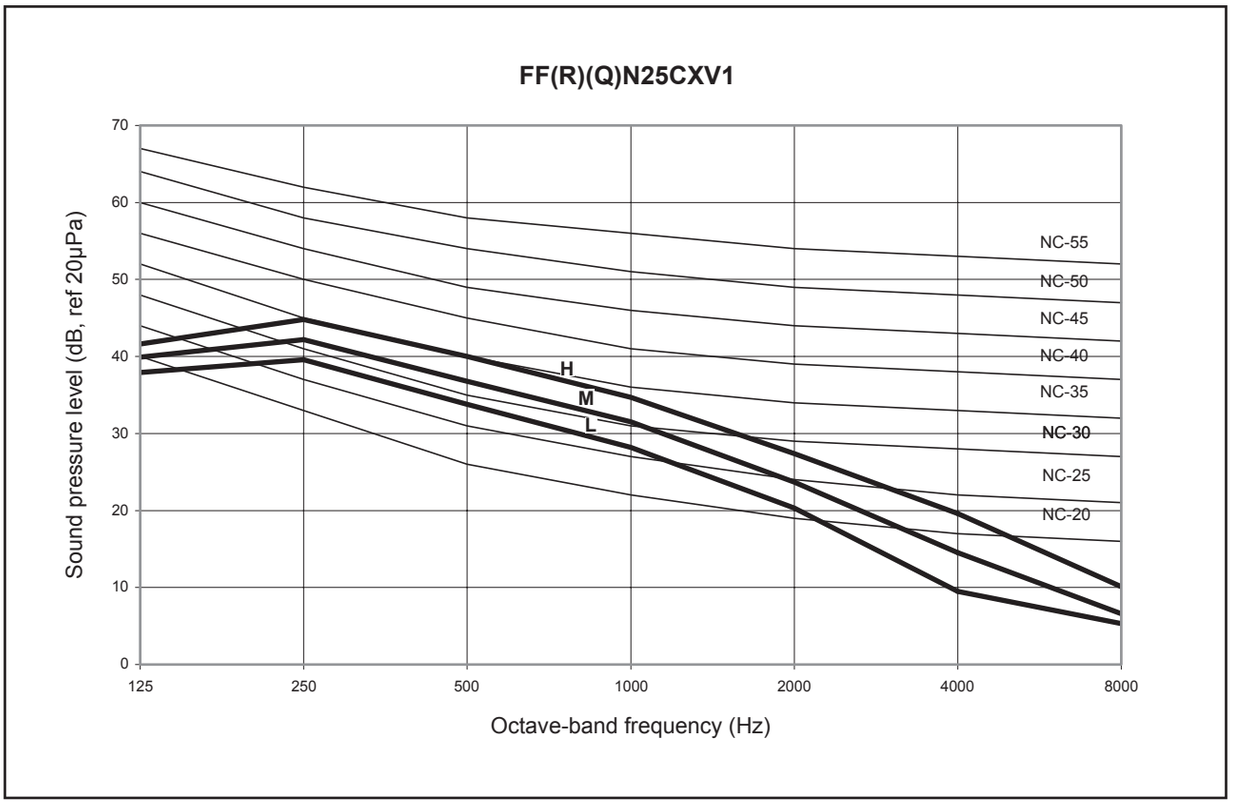
Sound Pressure Level

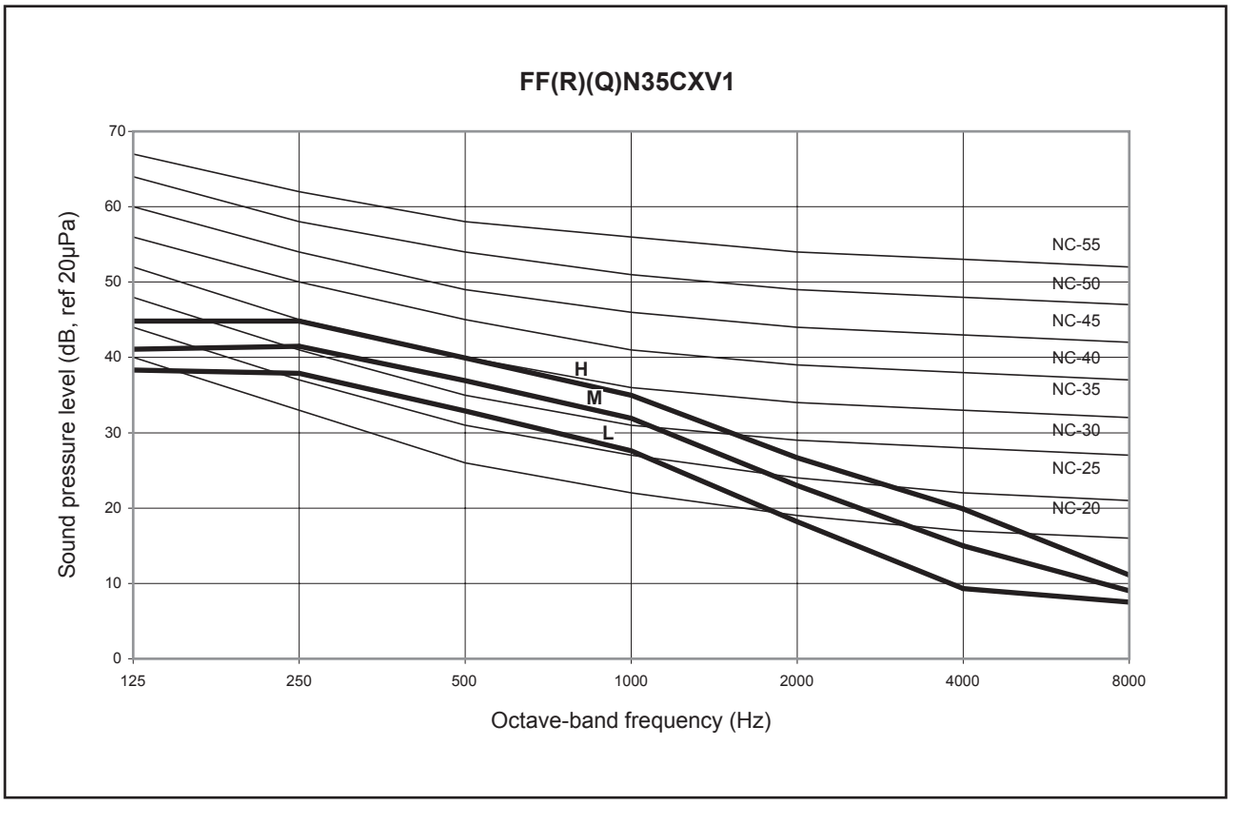
Model	Speed	1/1 Octave Sound Pressure (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FF(R)(Q)N25CXV1	High	42	45	40	35	27	20	10	41	35
	Med	40	42	37	32	24	15	7	38	32
	Low	38	40	34	28	20	10	5	35	29
FF(R)(Q)N35CXV1	High	45	45	40	35	27	20	11	41	35
	Med	41	42	37	32	23	15	9	38	32
	Low	38	38	33	28	18	9	8	34	28
FF(R)(Q)N50CXV1	High	48	47	43	38	30	24	14	44	38
	Med	46	45	40	35	26	19	9	41	35
	Low	44	40	36	31	21	12	5	37	31
FC(R)(Q)N50EXV1	High	37	38	35	26	17	8	6	34	30
	Med	35	35	34	22	12	6	6	32	29
	Low	34	31	31	18	9	6	6	30	25
	Quiet	32	28	29	16	7	4	5	28	23
FC(R)(Q)N60EXV1	High	39	40	37	29	22	12	6	37	32
	Med	37	37	34	25	17	8	4	34	29
	Low	37	37	34	23	15	7	7	33	29
	Quiet	36	36	33	22	12	7	8	32	28
FC(R)(Q)N71EXV1	High	46	44	43	36	30	23	12	42	38
	Med	39	40	38	30	23	15	7	38	37
	Low	38	38	35	26	19	9	5	35	34
	Quiet	36	36	33	24	15	6	5	33	30
FC(R)(Q)N100EXV1	High	51	48	47	41	33	31	18	47	43
	Med	52	44	44	37	28	24	11	44	39
	Low	50	41	40	33	23	15	8	40	35
	Quiet	46	36	37	26	15	6	6	36	32
FC(R)(Q)N125EXV1	High	52	50	48	44	35	34	22	49	44
	Med	53	45	44	39	29	28	14	45	39
	Low	53	43	42	37	27	24	10	43	37
	Quiet	51	41	39	32	23	16	6	39	34

Model	Measuring Location
FF(R)(Q)N25/35/50CXV1 **FC(R)(Q)N50/60/71EXV1**	Standard : JIS C 9612 
FC(R)(Q)N100EXV1 **FC(R)(Q)N125EXV1**	Standard: JIS B 8616 

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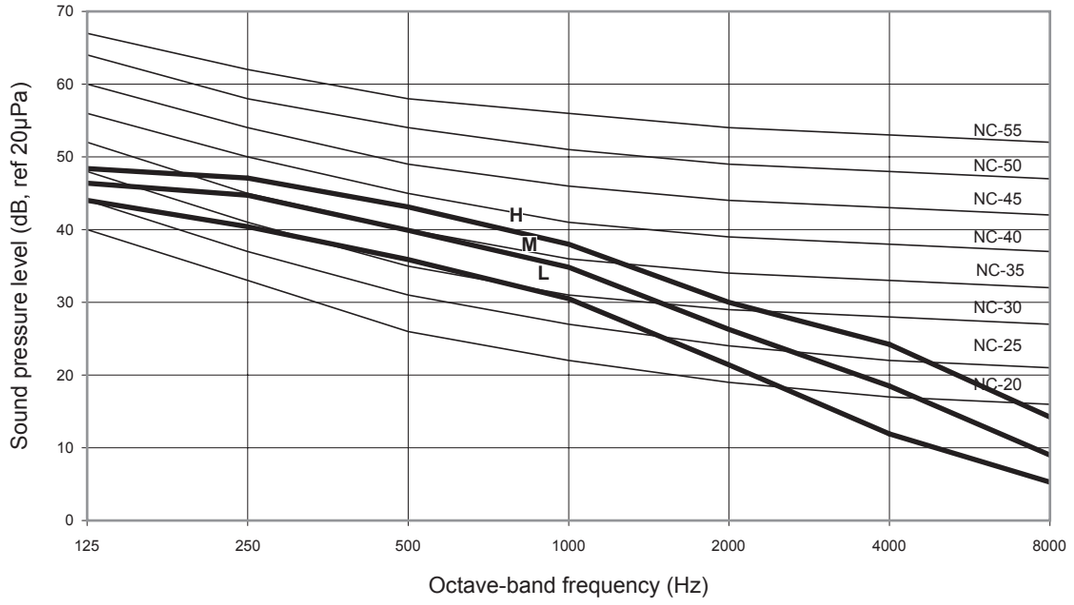
NC Curve



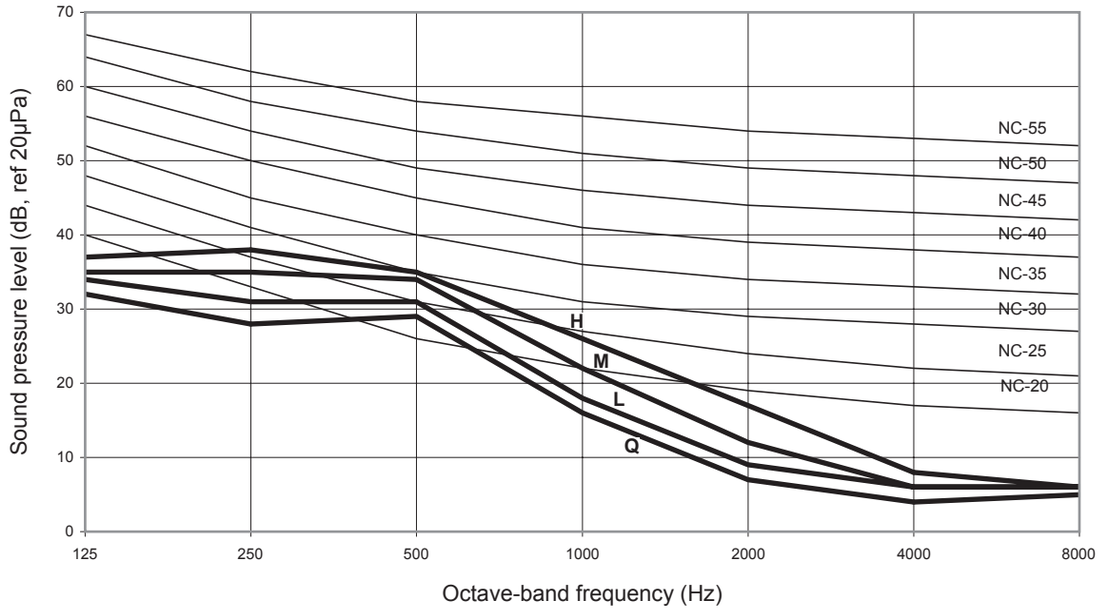


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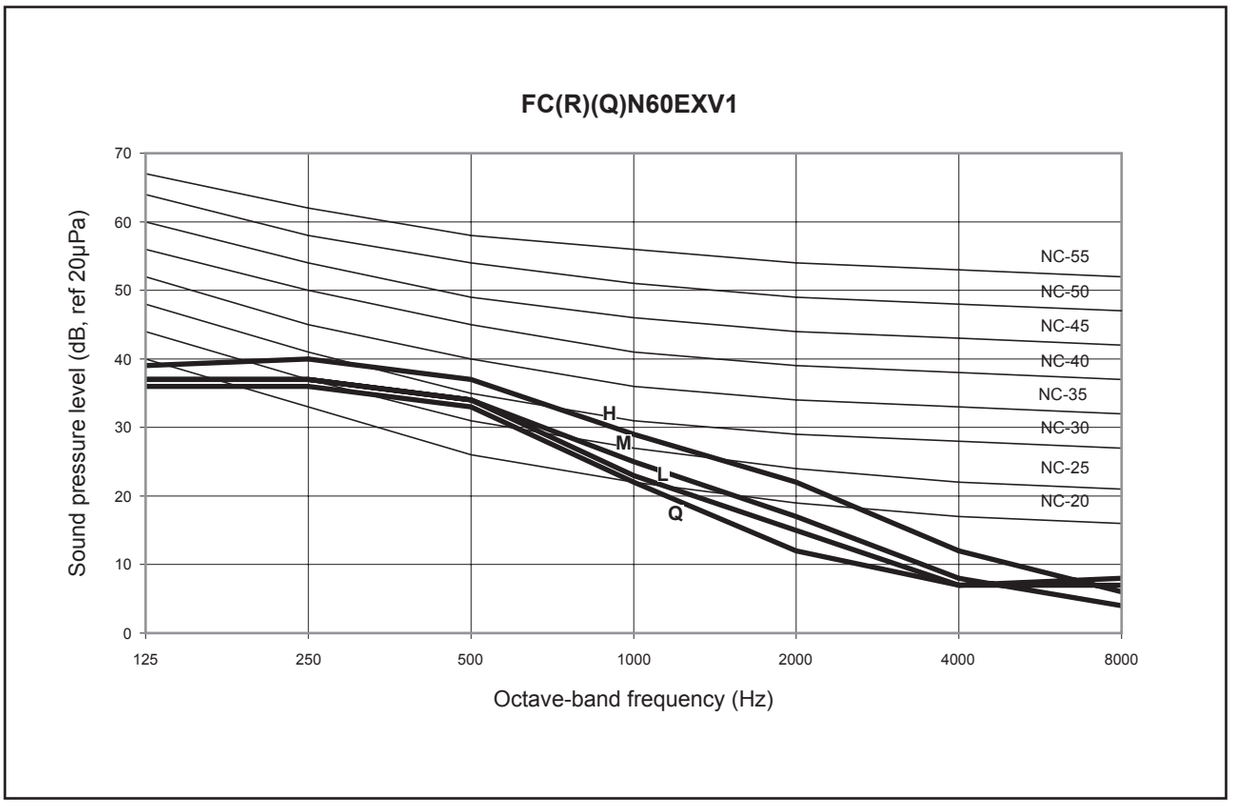
FF(R)(Q)N50CXV1

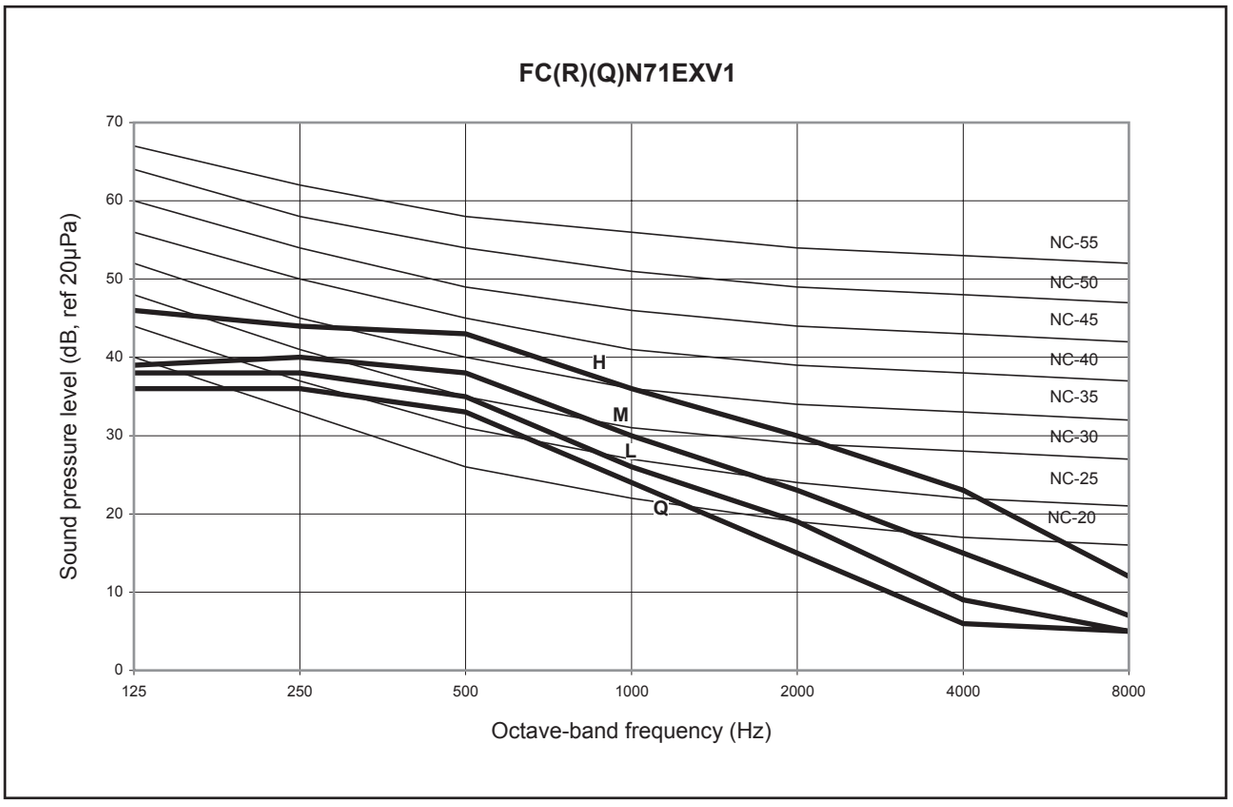


FC(R)(Q)N50EXV1



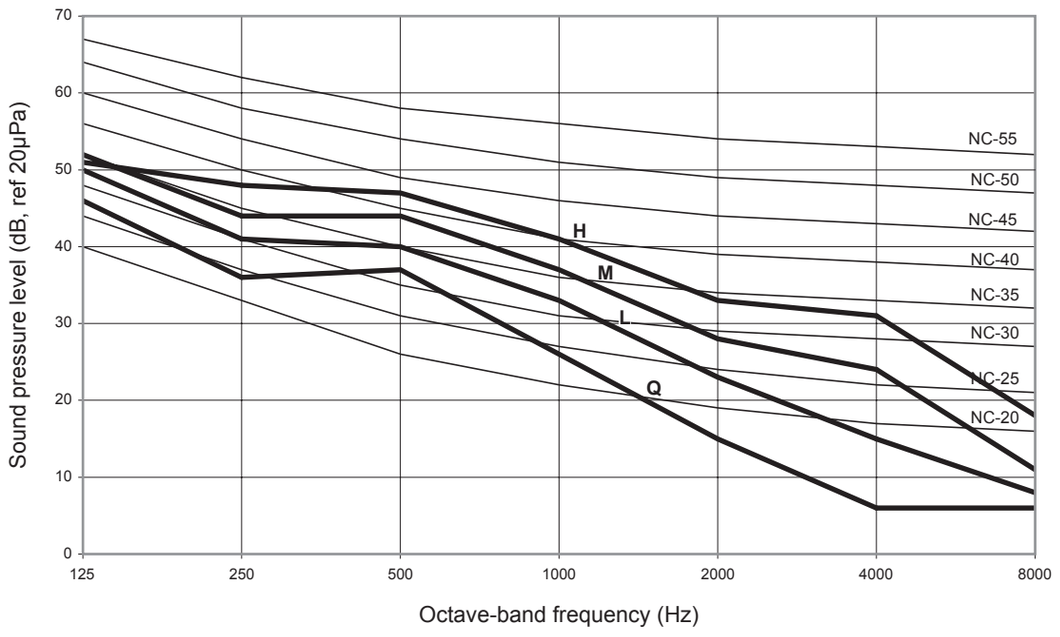
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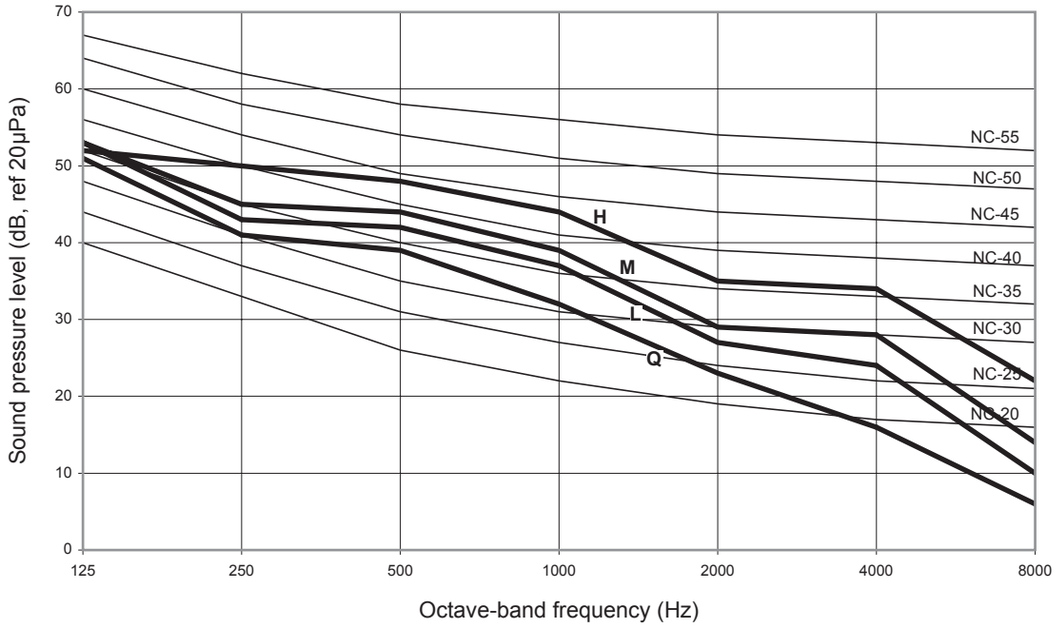


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FC(R)(Q)N100EXV1



FC(R)(Q)N125EXV1



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Engineering & Physical Data

Engineering Data - R410A model

MODEL	INDOOR UNIT			FFRN25CXV1	FFRN35CXV1	FFRN50CXV1	
	OUTDOOR UNIT			RN25CXV1	RN35CXV1	RN50CXV1	
NOMINAL COOLING CAPACITY			Btu/h	9500	12500	17500	
			W	2780	3660	5129	
NOMINAL TOTAL INPUT POWER (COOLING)			W	900	1300	1690	
NOMINAL RUNNING CURRENT (COOLING)			A	4	5.90	7.72	
EER			W/W	3.09	2.82	3.03	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAPILLARY TUBE			
REFRIGERANT CHARGE			kg	0.73	0.83	1.38	
MODEL	INDOOR UNIT			FFQN25CXV1	FFQN35CXV1	FFQN50CXV1	
	OUTDOOR UNIT			RYN25CXV1	RYN35CXV1	RYN50CXV1	
NOMINAL COOLING CAPACITY			Btu/h	9500	12500	17500	18000
			W	2780	3660	5129	5280
NOMINAL HEATING CAPACITY			Btu/h	9500	11500	17500	18000
			W	2780	3370	5129	5420
NOMINAL TOTAL INPUT POWER (COOLING)			W	900	1300	1690	1724
NOMINAL TOTAL INPUT POWER (HEATING)			W	830	1020	1710	1494
NOMINAL RUNNING CURRENT (COOLING)			A	4	5.9	7.72	3.3
NOMINAL RUNNING CURRENT (HEATING)			A	3.7	4.60	7.75	2.80
EER			W/W	3.09	2.82	3.03	3.06
COP			W/W	3.35	3.30	3.00	3.63
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAPILLARY TUBE			
REFRIGERANT CHARGE			kg	0.73	0.83	1.38	1.38
POWER SOURCE			V/Ph/Hz	220 - 240 /1/50			
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS MICROCOMPUTER REMOTE CONTROL			
	AIR FLOW	HIGH	l/s / CFM	194 / 410	194 / 410	212 / 450	212 / 450
		MEDIUM	l/s / CFM	170 / 360	170 / 360	194 / 410	194 / 410
		LOW	l/s / CFM	156 / 330	156 / 330	160 / 340	160 / 340
	SOUND PRESSURE LEVEL (H/M/L)		dBA	41 / 38 / 35	41 / 38 / 34	44 / 41 / 37	44 / 41 / 37
	UNIT DIMENSION [Panel]	HEIGHT X WIDTH X DEPTH	mm	250X 570 X 570 [295 x 640 x 640]			
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	317 X 630 X 630			
	UNIT WEIGHT (UNIT + PANEL)		kg	22 + 2	23 + 2	23 + 2	23 + 2
	CONDENSATE DRAIN SIZE		mm	19.05			
	FAN	TYPE		TURBO			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP20			
		INSULATION GRADE		CLASS B			
		RATED INPUT POWER	W	55	65	59	59
		RATED RUNNING CURRENT	A	0.24	0.29	0.25	0.25
		MOTOR MAX OUTPUT	W	19	23	28	28
		POLES		6			
	COIL	TUBE	MATERIAL	SEAMLESS INNER GROOVE COPPER			
			DIAMETER	mm	7		
		FIN	MATERIAL	ALUMINIUM (SLIT FIN)			
			FACE AREA	m^2	0.318		
			ROW		1	2	
	AIR QUALITY	FILTER	TYPE	WASHABLE SARANET FILTER			
			QUANTITY	pc	1		
	CASING		COLOUR	WITHOUT PAINT			
	AIR FLOW		l/s / CFM	396 / 840	453 / 960	614 / 1300	614 / 1300
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	46	49	52	52
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	540 X 700 X 250	540 X 700 X 250	651 X 855 X 328	651 X 855 X 328
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	620 X 810 X 330	620 X 810 X 330	710 X 990 X 415	710 X 990 X 415
	UNIT WEIGHT (RN / RYN)		kg	28	30	47	47
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID mm	6.35	6.35	6.35	6.35
			GAS mm	9.52	12.70	12.70	12.70
	FAN	TYPE		PROPELLER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP22	IP22	IP23	IP23
		INSULATION GRADE		CLASS B	CLASS B	CLASS F	CLASS F
		RATED INPUT POWER	W	57	70	80	80
		RATED RUNNING CURRENT	A	0.25	0.31	0.36	0.36
		MOTOR OUTPUT	W	24	35	42	42
		POLES		6	6	6	6
	COMPRESSOR	TYPE		ROTARY			
		OIL TYPE		RB68A or FREOL ALPHA68M		RB68A or FREOL ALPHA68M	
		OIL AMOUNT	cm^3	350	430	670	670
		RN	RATED INPUT POWER	W	788	1165	1551	1693
		RYN	RATED INPUT POWER (COOLING)	W	788	1165	1551	1693
			RATED INPUT POWER (HEATING)	W	718	881	1571	1643
			RATED RUNNING CURRENT	A	3.51	5.3	7.11	7.49
			RATED RUNNING CURRENT (COOLING)	A	3.51	5.3	7.11	7.49
			RATED RUNNING CURRENT (HEATING)	A	3.21	3.98	7.14	7.29
		LOCKED ROTOR AMP.		A	19	24	26	26
	COIL	TUBE	MATERIAL	SEAMLESS INNER GROOVE COPPER			
			DIAMETER (RN/RYN)	mm	7	7 / 9.52	7	7
		FIN	MATERIAL	ALUMINIUM (RAISE LANCE)			
			FACE AREA	m^2	0.36		0.51	
			ROW		1	1	2	2
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

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Engineering Data - R410A MODEL

MODEL	INDOOR UNIT			FCRN50EXV1	FCRN60EXV1	FCRN71EXV1	FCRN100EXV1
	OUTDOOR UNIT			RN50CXV1	RN60CXV1	RR71CXV1	RR90DXV1
NOMINAL COOLING CAPACITY			Btu/h	18300	22200	27000	29200
			W	5363	6506	7913	8558
NOMINAL TOTAL INPUT POWER (COOLING)			W	1740	1940	2790	2820
NOMINAL RUNNING CURRENT (COOLING)			A	7.72	8.67	13.10	13.70
EER			W/W	3.08	3.36	2.84	3.03
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAPILLARY TUBE			
REFRIGERANT CHARGE			kg	1.38	1.54	2.03	2.60
MODEL	INDOOR UNIT			FCQN50EXV1	FCQN60EXV1	FCQN71EXV1	FCQN100EXV1
	OUTDOOR UNIT			RYN50CXV1	RYN60CXV1	RQ71CXV1	RQ90DXV1
NOMINAL COOLING CAPACITY			Btu/h	18300	22200	27000	29200
			W	5363	6506	7913	8558
NOMINAL HEATING CAPACITY			Btu/h	17700	20500	28000	31800
			W	5188	6008	8206	9320
NOMINAL TOTAL INPUT POWER (COOLING)			W	1740	1940	2790	2820
NOMINAL TOTAL INPUT POWER (HEATING)			W	1490	1760	2325	2545
NOMINAL RUNNING CURRENT (COOLING)			A	7.72	8.67	13.08	13.7
NOMINAL RUNNING CURRENT (HEATING)			A	6.61	7.86	11.20	12.80
EER			W/W	3.08	3.36	2.84	3.03
COP			W/W	3.48	3.41	3.53	3.66
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAPILLARY TUBE			
REFRIGERANT CHARGE			kg	1.38	1.54	2.03	2.60
POWER SOURCE			V/Ph/Hz	220 - 240 /1/50			
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS MICROCOMPUTER REMOTE CONTROL			
	AIR FLOW	HIGH	l/s / CFM	280 / 600	320 / 680	410 / 860	490 / 1030
		MEDIUM	l/s / CFM	250 / 530	280 / 600	340 / 725	410 / 860
		LOW	l/s / CFM	200 / 430	250 / 530	290 / 620	350 / 740
		SUPER LOW	l/s / CFM	190 / 400	200 / 430	250 / 530	295 / 620
	SOUND PRESSURE LEVEL (H/M/L/SL)		dBA	34 / 32 / 30 / 28	37 / 34 / 33 / 32	42 / 38 / 35 / 33	47 / 44 / 40 / 36
	UNIT DIMENSION [Panel]	HEIGHT X WIDTH X DEPTH	mm	265 X 820 X 820 [340 X 990 X 990]			300 X 820 X 820 [375 X 990 X 990]
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	300 X 916 X 916			335 X 916 X 916
	UNIT WEIGHT (UNIT + PANEL)		kg	29 + 6			42 + 6
	CONDENSATE DRAIN SIZE		mm	19.05			
	FAN	TYPE		BLOWER WHEEL			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP20			
		INSULATION GRADE		CLASS B			
		RATED INPUT POWER	W	88	101	145	176
		RATED RUNNING CURRENT	A	0.39	0.44	0.64	0.79
		MOTOR MAX OUTPUT	W	20	30	50	60
		POLES		6			
	COIL	TUBE MATERIAL		SEAMLESS INNER GROOVE COPPER			
		TUBE DIAMETER	mm	7			
		FIN MATERIAL		ALUMINIUM (SLIT FIN)			
		FIN FACE AREA	m²	0.386		0.372	0.461
		FIN ROW		2		3	
	AIR QUALITY	FILTER TYPE		WASHABLE SARANET FILTER			
		FILTER QUANTITY	pc	1			
	CASING		COLOUR	WITHOUT PAINT			
	AIR FLOW		l/s / CFM	614 / 1300	689 / 1460	684 / 1450	1605 / 3400
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	52	52	58	58
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	651 X 855 X 328	753 X 855 X 328		852 X 1030 X 400
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	710 X 990 X 415	810 X 990 X 415		1010 X 1180 X 514
	UNIT WEIGHT (RN / RYN)		kg	47	50	57	86
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE LIQUID	mm	6.35		9.52	
		SIZE GAS	mm	12.70	15.88	15.88	15.88
	FAN	TYPE		PROPELLER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP23	IP23		N / A
		INSULATION GRADE		CLASS F	CLASS F	CLASS F	CLASS B
		RATED INPUT POWER	W	80	97	124	257
		RATED RUNNING CURRENT	A	0.36	0.43	0.54	1.10
		MOTOR OUTPUT	W	42	64	75	145
		POLES		6			8
	COMPRESSOR	TYPE		ROTARY		ROTARY	SCROLL
		OIL TYPE		RB68A or Freol Alpha68M		RB68A or Freol Alpha68M	MOBIL EAL ARCTIC 22C
		OIL AMOUNT	cm³	670	1130	1242	
		RN RATED INPUT POWER	W	1572	1742	2521	2387
		RYN RATED INPUT POWER (COOLING)	W	1572	1742	2521	2387
		RYN RATED INPUT POWER (HEATING)	W	1322	1562	2056	2112
		RATED RUNNING CURRENT	A	6.97	7.8	11.9	11.8
		RATED RUNNING CURRENT (COOLING)	A	6.97	7.8	11.9	11.8
		RATED RUNNING CURRENT (HEATING)	A	5.86	6.99	10.00	10.90
		LOCKED ROTOR AMP.	A	26	63	65	97
	COIL	TUBE MATERIAL		SEAMLESS INNER GROOVE COPPER			
		TUBE DIAMETER (RN/RYN)	mm	7			
		FIN MATERIAL		ALUMINIUM(RAISE LANCE)		ALUMINIUM (CORR. FIN)	
		FIN FACE AREA	m²	0.51	0.62	0.62	0.87
		FIN ROW		2			
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

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Engineering Data - R410A MODEL

MODEL	INDOOR UNIT			FCRN100EXV1		FCRN125EXV1	
	OUTDOOR UNIT			RR90DXY1	RR100DXV1	RR125DXY1	
NOMINAL COOLING CAPACITY			Btu/h	31000	39000	45000	
			W	9086	11430	13190	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2770	3920	4390	
NOMINAL RUNNING CURRENT (COOLING)			A	5.20	17.90	7.80	
EER			W/W	3.28	2.92	2.87	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAPILLARY TUBE			
REFRIGERANT CHARGE			kg	2.60	2.10	2.25	
MODEL	INDOOR UNIT			FCQN100EXV1		FCQN125EXV1	
	OUTDOOR UNIT			RQ90DXY1	RQ100DXV1	RQ125DXY1	
NOMINAL COOLING CAPACITY			Btu/h	31000	39000	45000	
			W	9086	11430	13190	
NOMINAL HEATING CAPACITY			Btu/h	33400	39000	48000	
			W	9789	11430	14070	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2770	3920	4390	
NOMINAL TOTAL INPUT POWER (HEATING)			W	2550	3740	4010	
NOMINAL RUNNING CURRENT (COOLING)			A	5.2	17.9	7.8	
NOMINAL RUNNING CURRENT (HEATING)			A	5.00	17.30	7.30	
EER			W/W	3.28	2.92	2.87	
COP			W/W	3.84	3.06	3.46	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAPILLARY TUBE			
REFRIGERANT CHARGE			kg	2.60	2.10	2.25	
POWER SOURCE			V/Ph/Hz	220 - 240 /1/50	220 - 240 /1/50	380 - 415 / 3 / 50	
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS MICROCOMPUTER REMOTE CONTROL			
	AIR FLOW	HIGH	l/s / CFM	490 / 1030		570 / 1200	
		MEDIUM	l/s / CFM	410 / 860		490 / 1030	
		LOW	l/s / CFM	350 / 740		440 / 930	
		SUPER LOW	l/s / CFM	295 / 620		370 / 780	
	SOUND PRESSURE LEVEL (H/M/L/SL)		dBA	47 / 44 / 40 / 36		49 / 45 / 43 / 39	
	UNIT DIMENSION [Panel]	HEIGHT X WIDTH X DEPTH	mm	300 X 820 X 820 [375 X 990 X 990]			
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	335 X 916 X 916			
	UNIT WEIGHT (UNIT + PANEL)		kg	42 + 6			
	CONDENSATE DRAIN SIZE		mm	19.05			
	FAN	TYPE		BLOWER WHEEL			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP20			
		INSULATION GRADE		CLASS B			
		RATED INPUT POWER	W	176	176	221	
		RATED RUNNING CURRENT	A	0.79	0.79	0.97	
		MOTOR MAX OUTPUT	W	60		100	
		POLES		6			
	COIL	TUBE	MATERIAL	SEAMLESS INNER GROOVE COPPER			
			DIAMETER	7			
		FIN	MATERIAL	ALUMINIUM (SLIT FIN)			
			FACE AREA	m^2	0.461		0.464
			ROW	3			
	AIR QUALITY	FILTER	TYPE	WASHABLE SARANET FILTER			
			QUANTITY	pc	1		
	CASING		COLOUR	WITHOUT PAINT			
	AIR FLOW		l/s / CFM	1605 / 3400		2171 / 4600	
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	58		60	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	852 X 1030 X 400			
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1010 x 1180 x 514			
	UNIT WEIGHT (RN / RYN)		kg	86	95	98	
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID mm	9.52			
			GAS mm	15.88			
	FAN	TYPE		PROPELLER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		N / A	N / A	IP20	
		INSULATION GRADE		CLASS B	CLASS B	CLASS F	
		RATED INPUT POWER	W	257	257	276	
		RATED RUNNING CURRENT	A	1.1	1.1	1.34	
		MOTOR OUTPUT	W	145			
		POLES		8			
	COMPRESSOR	TYPE		SCROLL			
		OIL TYPE		MOBIL EAL ARCTIC 22C			
		OIL AMOUNT	cm^3	1242	1951	1656	
		RN	RATED INPUT POWER	W	2337	3487	3893
		RYN	RATED INPUT POWER (COOLING)	W	2337	3487	3893
			RATED INPUT POWER (HEATING)	W	2117	3307	3513
			RATED RUNNING CURRENT	A	4.57	16	7.03
			RATED RUNNING CURRENT (COOLING)	A	4.57	16	7.03
			RATED RUNNING CURRENT (HEATING)	A	4.37	15.40	6.53
		LOCKED ROTOR AMP.		A	48	136	74
	COIL	TUBE	MATERIAL	SEAMLESS INNER GROOVE COPPER			
			DIAMETER (RN/RYN)	mm	7	7	7
		FIN	MATERIAL	ALUMINIUM (CORR.FIN)			
			FACE AREA	m^2	0.87		
			ROW	2			
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

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Safety Device

MODEL	INDOOR			FFRN25/35CXV1 FFQN25/35CXV1	FFRN50CXV1 FFQN50CXV1
	OUTDOOR			R(Y)N25CXV1	R(Y)N50CXV1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	LOW PRESSURE SWITCH	TYPE		N/A	
		OPEN	kPa / psi	N/A	
		CLOSE	kPa / psi	N/A	
	PHASE SEQUENCER			N/A	
	DISC. THERMOSTAT SETTING		°C / F	N/A	

MODEL	INDOOR			FCRN50/60/71EXV1 FCQN50/60/71EXV1
	OUTDOOR			R(Y)N50/60CXV1 R(R)(Q)71CXV1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	LOW PRESSURE SWITCH	TYPE		N/A
		OPEN	kPa / psi	N/A
		CLOSE	kPa / psi	N/A
	PHASE SEQUENCER			N/A
	DISC. THERMOSTAT SETTING		°C / F	N/A

MODEL	INDOOR			FCRN100EXV1		
	OUTDOOR			RR90DXV1	RR100DXV1	RR100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	4140 / 600.46		
		CLOSE	kPa / psi	3310 / 480.07		
	LOW PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	48 / 6.96		
		CLOSE	kPa / psi	152 / 22.05		
	PHASE SEQUENCER			N/A		YES
	DISC. THERMOSTAT SETTING		°C / F	N/A		130 / 266

MODEL	INDOOR			FCRN125EXV1
	OUTDOOR			RR125DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	4140 / 600.46
		CLOSE	kPa / psi	3310 / 480.07
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	48 / 6.96
		CLOSE	kPa / psi	152 / 22.05
	PHASE SEQUENCER			YES
	DISC. THERMOSTAT SETTING		°C / F	130 / 266

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

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MODEL	INDOOR			FCQN100EXV1		
	OUTDOOR			RQ90DXV1	RQ100DXV1	RQ100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	4140 / 600.46		
		CLOSE	kPa / psi	3310 / 480.07		
	LOW PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	48 / 6.96		
		CLOSE	kPa / psi	152 / 22.05		
	PHASE SEQUENCER			N/A		YES
	DISC. THERMOSTAT SETTING		°C / F	N/A		130 / 266

MODEL	INDOOR			FCQN125EXV1
	OUTDOOR			RQ125DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	4140 / 600.46
		CLOSE	kPa / psi	3310 / 480.07
	LOW PRESSURE SWITCH	TYPE		NC
		OPEN	kPa / psi	48 / 6.96
		CLOSE	kPa / psi	152 / 22.05
	PHASE SEQUENCER			YES
	DISC. THERMOSTAT SETTING		°C / F	130 / 266

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Performance Data

Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

Example:

Model: FFRN25CXV1 - RN25CXV1
Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB
Fan Speed: High

Solution:
Based on the Performance Table,

1. Refer to the Indoor DB column,
   - **25°C** is located between 24°C & 27°C for 16°C WB.
   - **25°C** is located between 24°C & 27°C for 19°C WB.
   - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
   - **17°C** is located between 16°C & 19°C for 25°C DB.
   - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C & 40°C.
   - Thus, Interpolation needs to be applied.

1st Step
Interpolation of Indoor WB
Find TC, SC & PI
(a) Indoor: **25°C DB**, 16°C WB
Outdoor: 35°C DB
(b) Indoor: **25°C DB**, 19°C WB
Outdoor: 35°C DB
(c) Indoor: **25°C DB**, 16°C WB
Outdoor: 40°C DB
(d) Indoor: **25°C DB**, 19°C WB
Outdoor: 40°C DB

⇨

2nd Step
Interpolation of Indoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, **17°C WB**
Outdoor: 35°C DB
(b) Indoor: 25°C DB, **17°C WB**
Outdoor: 40°C DB

⇨

3rd Step
Interpolation of Outdoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, 17°C WB
Outdoor: **37°C DB**

Details of Calculation:

1st Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	24		3.20	3.20	1.27	
	25	------	x_1	y_1	z_1	
	27		3.30	3.30	1.27	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_1 - 3.20kW}{3.30kW - 3.20kW}$$

$\Rightarrow x_1 = 3.23kW$

Similarly,

$y_1 = 3.23kW$

$z_1 = 1.27kW$

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(b) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
19	24		3.51	2.57	1.29	
	25	------	x_2	y_2	z_2	
	27		3.52	2.99	1.29	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_2 - 3.51kW}{3.52kW - 3.51kW}$$

$\Rightarrow x_2 = 3.51kW$

Similarly,

$y_2 = 2.71kW$

$z_2 = 1.29kW$

Repeat the same process for (c) & (d) in 1st Step

(c) $x_3 = 2.98$ kW; $y_3 = 2.98$ kW; $z_3 = 1.38$ kW

(d) $x_4 = 3.22$ W; $y_4 = 2.53$ kW; $z_4 = 1.40$ kW

2nd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	25		3.23	3.23	1.27	
17		------	x_5	y_5	z_5	
19			3.51	2.71	1.29	

By Interpolation Method

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_5 - 3.23kW}{3.51kW - 3.23kW}$$

$\Rightarrow x_5 = 3.32kW$

Similarly,

$y_5 = 3.06kW$

$z_5 = 1.28kW$

Repeat the same process for (b) in 2nd Step

(c) $x_6 = 3.06$ kW; $y_6 = 2.83$ kW; $z_6 = 1.39$ kW

3rd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature								
			35°C			37°C			40°C	
			TC	SC	PI	TC	SC	PI	TC	SC	PI
						⋮	⋮	⋮			
25	17	------	3.32	3.06	1.28	x	y	z	3.06	2.83	1.39

By Interpolation Method

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{x - 3.32kW}{3.06kW - 3.32kW}$$

$\Rightarrow x = 3.22kW$

Similarly,

$y = 2.97kW$

$z = 1.35kW$

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Performance Tables

R410A Cooling Only

Model: FFRN25CXV1 - RN25CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
330	16°C	21°C	2.62	2.08	0.68	2.53	2.03	0.74	2.43	1.97	0.80	2.34	1.92	0.87	2.15	1.78	0.94	1.98	1.68	1.04
		24°C	2.63	2.49	0.68	2.53	2.44	0.74	2.44	2.38	0.80	2.34	2.32	0.87	2.15	2.15	0.94	1.99	1.99	1.04
		27°C	2.65	2.65	0.69	2.56	2.56	0.74	2.47	2.47	0.80	2.37	2.37	0.87	2.19	2.19	0.95	2.04	2.04	1.04
		30°C	2.73	2.73	0.69	2.65	2.65	0.75	2.57	2.57	0.81	2.49	2.49	0.88	2.30	2.30	0.95	2.16	2.16	1.05
	19°C	24°C	2.89	1.94	0.69	2.79	1.89	0.75	2.69	1.84	0.81	2.58	1.79	0.88	2.37	1.67	0.96	2.19	1.57	1.06
		27°C	2.89	2.22	0.69	2.79	2.17	0.75	2.69	2.12	0.81	2.58	2.07	0.88	2.37	1.94	0.96	2.20	1.84	1.06
		30°C	2.90	2.74	0.69	2.80	2.69	0.75	2.70	2.63	0.82	2.60	2.56	0.88	2.39	2.39	0.96	2.22	2.22	1.06
		33°C	2.93	2.93	0.70	2.84	2.84	0.75	2.75	2.75	0.82	2.65	2.65	0.89	2.45	2.45	0.96	2.29	2.29	1.07
	22°C	27°C	3.18	1.90	0.71	3.07	1.86	0.77	2.96	1.81	0.83	2.84	1.76	0.90	2.61	1.64	0.98	2.42	1.55	1.08
		30°C	3.18	2.32	0.71	3.07	2.27	0.77	2.96	2.22	0.83	2.84	2.16	0.90	2.62	2.03	0.98	2.42	1.92	1.08
		33°C	3.18	2.71	0.71	3.07	2.66	0.77	2.96	2.60	0.83	2.85	2.55	0.90	2.62	2.39	0.98	2.43	2.27	1.08
		36°C	3.19	3.07	0.71	3.09	3.01	0.77	2.98	2.95	0.83	2.87	2.87	0.90	2.65	2.65	0.98	2.46	2.46	1.08
360	16°C	21°C	2.73	2.17	0.69	2.63	2.11	0.75	2.53	2.06	0.81	2.43	2.00	0.88	2.23	1.86	0.95	2.05	1.75	1.05
		24°C	2.74	2.63	0.69	2.64	2.57	0.75	2.54	2.51	0.81	2.44	2.44	0.88	2.24	2.24	0.95	2.07	2.07	1.05
		27°C	2.77	2.77	0.69	2.68	2.68	0.75	2.58	2.58	0.81	2.49	2.49	0.88	2.30	2.30	0.96	2.14	2.14	1.05
		30°C	2.88	2.88	0.70	2.80	2.80	0.75	2.72	2.72	0.82	2.63	2.63	0.89	2.43	2.43	0.97	2.27	2.27	1.07
	19°C	24°C	3.00	2.05	0.70	2.90	2.00	0.76	2.79	1.95	0.82	2.68	1.90	0.89	2.46	1.77	0.97	2.27	1.67	1.07
		27°C	3.01	2.37	0.70	2.90	2.31	0.76	2.79	2.26	0.82	2.68	2.21	0.89	2.46	2.06	0.97	2.28	1.95	1.07
		30°C	3.02	2.92	0.70	2.92	2.85	0.76	2.81	2.79	0.82	2.71	2.71	0.89	2.49	2.49	0.97	2.31	2.31	1.07
		33°C	3.07	3.07	0.70	2.98	2.98	0.76	2.89	2.89	0.83	2.79	2.79	0.90	2.58	2.58	0.98	2.42	2.42	1.08
	22°C	27°C	3.30	2.01	0.71	3.19	1.96	0.77	3.07	1.91	0.84	2.94	1.86	0.91	2.71	1.74	0.99	2.50	1.64	1.09
		30°C	3.31	2.47	0.71	3.19	2.42	0.77	3.07	2.36	0.84	2.95	2.31	0.91	2.71	2.16	0.99	2.51	2.05	1.09
		33°C	3.31	2.89	0.71	3.20	2.84	0.77	3.08	2.78	0.84	2.96	2.72	0.91	2.72	2.55	0.99	2.52	2.42	1.09
		36°C	3.33	3.27	0.72	3.22	3.21	0.78	3.11	3.11	0.84	3.00	3.00	0.91	2.77	2.77	0.99	2.58	2.58	1.09
410	16°C	21°C	2.83	2.27	0.70	2.72	2.21	0.75	2.62	2.15	0.81	2.51	2.09	0.88	2.30	1.95	0.96	2.12	1.83	1.06
		24°C	2.84	2.75	0.70	2.74	2.69	0.75	2.64	2.62	0.82	2.53	2.53	0.88	2.32	2.32	0.96	2.15	2.15	1.06
		27°C	2.89	2.89	0.70	2.79	2.79	0.76	2.70	2.70	0.82	2.60	2.60	0.89	2.41	2.41	0.97	2.24	2.24	1.07
		30°C	3.03	3.03	0.70	2.94	2.94	0.76	2.85	2.85	0.83	2.76	2.76	0.90	2.56	2.56	0.98	2.39	2.39	1.08
	19°C	24°C	3.11	2.17	0.71	3.00	2.12	0.77	2.89	2.06	0.83	2.77	2.01	0.90	2.54	1.87	0.98	2.35	1.77	1.07
		27°C	3.12	2.51	0.71	3.01	2.46	0.77	2.90	2.40	0.83	2.78	2.34	0.90	2.55	2.19	0.98	2.36	2.07	1.08
		30°C	3.15	3.09	0.71	3.04	3.03	0.77	2.93	2.93	0.83	2.82	2.82	0.90	2.59	2.59	0.98	2.41	2.41	1.08
		33°C	3.22	3.22	0.71	3.12	3.12	0.77	3.03	3.03	0.84	2.93	2.93	0.91	2.71	2.71	0.99	2.54	2.54	1.09
	22°C	27°C	3.42	2.13	0.72	3.29	2.08	0.78	3.17	2.03	0.85	3.04	1.97	0.92	2.80	1.84	0.99	2.58	1.74	1.10
		30°C	3.42	2.62	0.72	3.30	2.57	0.78	3.18	2.51	0.85	3.05	2.46	0.92	2.80	2.30	1.00	2.59	2.18	1.10
		33°C	3.43	3.07	0.72	3.32	3.02	0.78	3.19	2.95	0.85	3.07	2.89	0.92	2.82	2.71	1.00	2.62	2.57	1.10
		36°C	3.47	3.47	0.72	3.36	3.36	0.78	3.24	3.24	0.85	3.12	3.12	0.92	2.89	2.89	1.00	2.69	2.69	1.11

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FFRN35CXV1 - RN35CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
330	16°C	21°C	3.45	2.73	0.99	3.33	2.66	1.07	3.21	2.59	1.16	3.08	2.51	1.25	2.83	2.34	1.36	2.61	2.20	1.50
		24°C	3.46	3.27	0.99	3.33	3.20	1.07	3.21	3.12	1.16	3.08	3.04	1.26	2.83	2.83	1.36	2.62	2.62	1.50
		27°C	3.48	3.48	0.99	3.37	3.37	1.07	3.25	3.25	1.16	3.13	3.13	1.26	2.88	2.88	1.37	2.68	2.68	1.51
		30°C	3.59	3.59	0.99	3.49	3.49	1.08	3.38	3.38	1.17	3.27	3.27	1.27	3.03	3.03	1.38	2.84	2.84	1.52
	19°C	24°C	3.81	2.55	1.00	3.67	2.49	1.09	3.54	2.42	1.18	3.40	2.35	1.28	3.12	2.19	1.38	2.89	2.06	1.53
		27°C	3.81	2.92	1.00	3.68	2.85	1.09	3.54	2.79	1.18	3.40	2.72	1.28	3.13	2.54	1.39	2.89	2.41	1.53
		30°C	3.82	3.60	1.00	3.68	3.52	1.09	3.55	3.45	1.18	3.42	3.36	1.28	3.15	3.14	1.39	2.92	2.92	1.53
		33°C	3.86	3.86	1.01	3.74	3.74	1.09	3.61	3.61	1.18	3.49	3.49	1.28	3.23	3.23	1.39	3.02	3.02	1.54
	22°C	27°C	4.19	2.50	1.02	4.04	2.44	1.11	3.90	2.37	1.20	3.74	2.31	1.30	3.44	2.15	1.41	3.19	2.03	1.56
		30°C	4.19	3.04	1.02	4.04	2.98	1.11	3.90	2.91	1.20	3.74	2.84	1.30	3.44	2.66	1.41	3.19	2.52	1.56
		33°C	4.19	3.55	1.02	4.05	3.49	1.11	3.90	3.42	1.20	3.75	3.35	1.30	3.45	3.14	1.41	3.20	2.98	1.56
		36°C	4.21	4.03	1.02	4.07	3.95	1.11	3.93	3.87	1.20	3.78	3.78	1.30	3.49	3.49	1.42	3.24	3.24	1.56
360	16°C	21°C	3.59	2.85	1.00	3.46	2.77	1.08	3.33	2.70	1.17	3.19	2.62	1.27	2.93	2.44	1.37	2.70	2.30	1.51
		24°C	3.60	3.46	1.00	3.47	3.38	1.08	3.34	3.30	1.17	3.21	3.21	1.27	2.95	2.95	1.37	2.72	2.72	1.51
		27°C	3.64	3.64	1.00	3.52	3.52	1.08	3.40	3.40	1.17	3.28	3.28	1.27	3.03	3.03	1.38	2.82	2.82	1.52
		30°C	3.80	3.80	1.01	3.69	3.69	1.09	3.57	3.57	1.18	3.46	3.46	1.28	3.20	3.20	1.39	3.00	3.00	1.54
	19°C	24°C	3.96	2.69	1.01	3.81	2.63	1.10	3.67	2.56	1.19	3.52	2.49	1.29	3.24	2.32	1.40	2.99	2.19	1.54
		27°C	3.96	3.10	1.01	3.82	3.03	1.10	3.68	2.97	1.19	3.53	2.90	1.29	3.24	2.71	1.40	3.00	2.56	1.54
		30°C	3.98	3.83	1.01	3.84	3.75	1.10	3.71	3.66	1.19	3.56	3.56	1.29	3.28	3.28	1.40	3.04	3.04	1.54
		33°C	4.05	4.05	1.02	3.92	3.92	1.10	3.80	3.80	1.20	3.67	3.67	1.30	3.40	3.40	1.41	3.18	3.18	1.56
	22°C	27°C	4.35	2.64	1.03	4.19	2.58	1.12	4.04	2.51	1.21	3.88	2.44	1.31	3.56	2.28	1.42	3.30	2.15	1.57
		30°C	4.35	3.24	1.03	4.20	3.17	1.12	4.04	3.10	1.21	3.88	3.03	1.31	3.57	2.83	1.43	3.30	2.69	1.57
		33°C	4.36	3.79	1.03	4.21	3.72	1.12	4.05	3.64	1.21	3.89	3.57	1.32	3.58	3.35	1.43	3.32	3.18	1.57
		36°C	4.39	4.29	1.03	4.24	4.21	1.12	4.10	4.10	1.22	3.95	3.95	1.32	3.64	3.64	1.43	3.40	3.40	1.58
410	16°C	21°C	3.72	2.97	1.00	3.59	2.90	1.09	3.45	2.82	1.18	3.31	2.74	1.28	3.03	2.55	1.38	2.80	2.40	1.52
		24°C	3.74	3.61	1.01	3.61	3.53	1.09	3.47	3.44	1.18	3.33	3.33	1.28	3.06	3.06	1.39	2.83	2.83	1.53
		27°C	3.80	3.80	1.01	3.68	3.68	1.09	3.55	3.55	1.18	3.43	3.43	1.28	3.17	3.17	1.39	2.95	2.95	1.54
		30°C	3.99	3.99	1.02	3.88	3.88	1.10	3.76	3.76	1.20	3.63	3.63	1.30	3.36	3.36	1.41	3.14	3.14	1.56
	19°C	24°C	4.10	2.85	1.02	3.95	2.78	1.11	3.80	2.71	1.20	3.65	2.64	1.30	3.35	2.46	1.41	3.09	2.32	1.55
		27°C	4.11	3.30	1.02	3.96	3.22	1.11	3.81	3.15	1.20	3.66	3.07	1.30	3.36	2.87	1.41	3.11	2.72	1.55
		30°C	4.14	4.06	1.02	4.00	3.97	1.11	3.85	3.85	1.20	3.71	3.71	1.30	3.41	3.41	1.41	3.17	3.17	1.56
		33°C	4.23	4.23	1.03	4.11	4.11	1.12	3.98	3.98	1.21	3.85	3.85	1.31	3.57	3.57	1.43	3.34	3.34	1.58
	22°C	27°C	4.50	2.79	1.04	4.34	2.73	1.13	4.17	2.66	1.22	4.01	2.59	1.32	3.68	2.42	1.44	3.40	2.28	1.58
		30°C	4.51	3.44	1.04	4.35	3.37	1.13	4.18	3.30	1.22	4.01	3.22	1.33	3.69	3.02	1.44	3.41	2.86	1.58
		33°C	4.52	4.03	1.04	4.37	3.96	1.13	4.21	3.88	1.22	4.04	3.79	1.33	3.72	3.55	1.44	3.44	3.37	1.59
		36°C	4.56	4.55	1.04	4.42	4.42	1.13	4.27	4.27	1.23	4.11	4.11	1.33	3.80	3.80	1.45	3.55	3.55	1.60

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. ▒ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FFRN50CXV1 - RN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
340	16°C	21°C	4.84	3.33	1.28	4.67	3.24	1.39	4.49	3.15	1.50	4.31	3.06	1.63	3.96	2.85	1.77	3.66	2.68	1.95
		24°C	4.84	3.98	1.28	4.67	3.89	1.39	4.50	3.80	1.50	4.32	3.71	1.63	3.97	3.46	1.77	3.67	3.27	1.95
		27°C	4.88	4.52	1.29	4.72	4.41	1.39	4.55	4.31	1.51	4.38	4.20	1.64	4.04	3.91	1.77	3.76	3.67	1.96
		30°C	5.03	5.03	1.29	4.89	4.89	1.40	4.74	4.74	1.52	4.59	4.59	1.65	4.25	4.25	1.79	3.98	3.98	1.98
	19°C	24°C	5.34	3.11	1.30	5.15	3.03	1.41	4.96	2.95	1.53	4.76	2.86	1.66	4.38	2.67	1.80	4.05	2.51	1.98
		27°C	5.34	3.55	1.30	5.15	3.47	1.41	4.96	3.39	1.53	4.77	3.31	1.66	4.38	3.10	1.80	4.05	2.93	1.98
		30°C	5.35	4.39	1.30	5.16	4.29	1.41	4.98	4.20	1.53	4.79	4.10	1.66	4.41	3.83	1.80	4.09	3.62	1.99
		33°C	5.41	5.41	1.31	5.23	5.23	1.42	5.06	5.06	1.54	4.89	4.89	1.67	4.53	4.53	1.81	4.23	4.23	2.00
	22°C	27°C	5.87	3.04	1.33	5.67	2.97	1.44	5.46	2.89	1.56	5.25	2.81	1.69	4.82	2.62	1.84	4.47	2.47	2.02
		30°C	5.87	3.70	1.33	5.67	3.63	1.44	5.46	3.54	1.56	5.25	3.46	1.69	4.83	3.24	1.84	4.47	3.07	2.02
		33°C	5.87	4.33	1.33	5.67	4.24	1.44	5.46	4.16	1.56	5.25	4.07	1.69	4.83	3.82	1.84	4.48	3.63	2.02
		36°C	5.89	4.91	1.33	5.70	4.81	1.44	5.50	4.71	1.56	5.30	4.60	1.70	4.89	4.32	1.84	4.55	4.10	2.03
410	16°C	21°C	5.03	3.47	1.30	4.85	3.38	1.40	4.67	3.29	1.52	4.48	3.20	1.65	4.11	2.98	1.78	3.79	2.80	1.97
		24°C	5.05	4.21	1.30	4.87	4.11	1.40	4.68	4.01	1.52	4.50	3.91	1.65	4.13	3.65	1.79	3.82	3.45	1.97
		27°C	5.11	4.78	1.30	4.94	4.67	1.41	4.77	4.55	1.52	4.60	4.42	1.65	4.24	4.10	1.79	3.95	3.84	1.98
		30°C	5.32	5.32	1.31	5.17	5.17	1.42	5.01	5.01	1.54	4.85	4.85	1.67	4.49	4.49	1.81	4.20	4.20	2.00
	19°C	24°C	5.54	3.28	1.32	5.35	3.20	1.43	5.15	3.12	1.54	4.94	3.03	1.67	4.54	2.82	1.82	4.19	2.66	2.00
		27°C	5.55	3.78	1.32	5.36	3.70	1.43	5.16	3.61	1.54	4.95	3.53	1.68	4.55	3.30	1.82	4.20	3.12	2.00
		30°C	5.58	4.66	1.32	5.39	4.56	1.43	5.19	4.46	1.55	5.00	4.35	1.68	4.60	4.07	1.82	4.27	3.84	2.01
		33°C	5.67	5.67	1.32	5.50	5.50	1.43	5.33	5.33	1.56	5.15	5.15	1.69	4.77	4.77	1.83	4.46	4.46	2.03
	22°C	27°C	6.09	3.21	1.34	5.88	3.14	1.45	5.66	3.06	1.57	5.43	2.98	1.71	4.99	2.78	1.85	4.62	2.62	2.04
		30°C	6.10	3.94	1.34	5.88	3.86	1.45	5.67	3.78	1.58	5.44	3.69	1.71	5.00	3.45	1.85	4.63	3.28	2.04
		33°C	6.11	4.62	1.34	5.90	4.53	1.45	5.68	4.44	1.58	5.46	4.35	1.71	5.02	4.08	1.85	4.65	3.87	2.04
		36°C	6.15	5.22	1.34	5.95	5.13	1.46	5.74	5.02	1.58	5.53	4.90	1.71	5.11	4.59	1.86	4.76	4.33	2.05
450	16°C	21°C	5.22	3.62	1.31	5.03	3.53	1.41	4.83	3.44	1.53	4.63	3.34	1.66	4.25	3.11	1.80	3.92	2.93	1.98
		24°C	5.25	4.40	1.31	5.06	4.29	1.41	4.87	4.19	1.53	4.67	4.08	1.66	4.29	3.81	1.80	3.96	3.59	1.99
		27°C	5.33	5.04	1.31	5.16	4.91	1.42	4.98	4.77	1.54	4.80	4.63	1.67	4.44	4.29	1.81	4.14	4.00	2.00
		30°C	5.60	5.60	1.32	5.43	5.43	1.43	5.27	5.27	1.55	5.09	5.09	1.69	4.72	4.72	1.83	4.40	4.40	2.02
	19°C	24°C	5.74	3.47	1.33	5.54	3.39	1.44	5.33	3.30	1.56	5.11	3.21	1.69	4.69	2.99	1.83	4.33	2.82	2.02
		27°C	5.76	4.02	1.33	5.55	3.93	1.44	5.35	3.83	1.56	5.13	3.74	1.69	4.71	3.50	1.83	4.35	3.31	2.02
		30°C	5.81	4.94	1.33	5.60	4.84	1.44	5.40	4.73	1.56	5.20	4.61	1.69	4.78	4.30	1.84	4.44	4.06	2.03
		33°C	5.93	5.93	1.34	5.76	5.76	1.45	5.58	5.58	1.57	5.40	5.40	1.71	5.00	5.00	1.86	4.68	4.68	2.05
	22°C	27°C	6.30	3.40	1.35	6.08	3.32	1.47	5.85	3.24	1.59	5.62	3.15	1.72	5.16	2.94	1.87	4.77	2.78	2.06
		30°C	6.32	4.19	1.35	6.09	4.11	1.47	5.86	4.02	1.59	5.63	3.93	1.72	5.17	3.68	1.87	4.78	3.49	2.06
		33°C	6.34	4.91	1.35	6.12	4.82	1.47	5.89	4.72	1.59	5.66	4.62	1.73	5.21	4.33	1.87	4.83	4.11	2.06
		36°C	6.39	5.54	1.36	6.19	5.44	1.47	5.98	5.32	1.60	5.77	5.19	1.73	5.33	4.84	1.88	4.97	4.56	2.08

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FFRN50CXV1 - RN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
340	16°C	21°C	4.98	3.42	1.31	4.80	3.34	1.42	4.62	3.25	1.53	4.44	3.15	1.66	4.08	2.93	1.80	3.76	2.76	1.99
		24°C	4.99	4.10	1.31	4.81	4.01	1.42	4.63	3.91	1.53	4.44	3.82	1.66	4.08	3.56	1.81	3.78	3.36	1.99
		27°C	5.02	4.65	1.31	4.86	4.54	1.42	4.69	4.44	1.54	4.51	4.32	1.67	4.16	4.02	1.81	3.87	3.78	2.00
		30°C	5.18	5.18	1.32	5.03	5.03	1.43	4.88	4.88	1.55	4.72	4.72	1.68	4.38	4.38	1.83	4.09	4.09	2.02
	19°C	24°C	5.49	3.20	1.33	5.30	3.12	1.44	5.10	3.03	1.56	4.90	2.95	1.69	4.51	2.75	1.84	4.16	2.59	2.02
		27°C	5.49	3.66	1.33	5.30	3.58	1.44	5.11	3.49	1.56	4.91	3.41	1.69	4.51	3.19	1.84	4.17	3.02	2.02
		30°C	5.50	4.51	1.33	5.31	4.42	1.44	5.13	4.32	1.56	4.93	4.22	1.69	4.54	3.94	1.84	4.21	3.73	2.03
		33°C	5.57	5.57	1.33	5.39	5.39	1.45	5.21	5.21	1.57	5.03	5.03	1.70	4.66	4.66	1.85	4.36	4.36	2.04
	22°C	27°C	6.04	3.13	1.35	5.83	3.05	1.47	5.62	2.98	1.59	5.40	2.90	1.73	4.97	2.70	1.87	4.60	2.54	2.06
		30°C	6.04	3.81	1.35	5.83	3.73	1.47	5.62	3.65	1.59	5.40	3.56	1.73	4.97	3.33	1.87	4.60	3.16	2.06
		33°C	6.05	4.45	1.35	5.84	4.37	1.47	5.62	4.28	1.59	5.41	4.19	1.73	4.97	3.94	1.87	4.61	3.74	2.06
		36°C	6.07	5.05	1.36	5.87	4.95	1.47	5.66	4.85	1.59	5.46	4.74	1.73	5.03	4.44	1.88	4.68	4.22	2.07
410	16°C	21°C	5.18	3.57	1.32	4.99	3.48	1.43	4.80	3.39	1.55	4.61	3.29	1.68	4.23	3.07	1.82	3.90	2.88	2.01
		24°C	5.20	4.34	1.32	5.01	4.23	1.43	4.82	4.13	1.55	4.63	4.03	1.68	4.25	3.76	1.82	3.93	3.55	2.01
		27°C	5.26	4.92	1.33	5.08	4.81	1.43	4.91	4.69	1.55	4.73	4.55	1.69	4.37	4.22	1.83	4.07	3.95	2.02
		30°C	5.48	5.48	1.33	5.32	5.32	1.45	5.16	5.16	1.57	4.99	4.99	1.70	4.62	4.62	1.85	4.32	4.32	2.04
	19°C	24°C	5.71	3.38	1.34	5.50	3.29	1.45	5.30	3.21	1.58	5.08	3.12	1.71	4.67	2.91	1.85	4.31	2.74	2.04
		27°C	5.72	3.89	1.34	5.51	3.81	1.45	5.31	3.72	1.58	5.09	3.63	1.71	4.68	3.40	1.85	4.33	3.21	2.04
		30°C	5.74	4.80	1.35	5.54	4.70	1.46	5.35	4.59	1.58	5.14	4.48	1.71	4.73	4.19	1.86	4.39	3.96	2.05
		33°C	5.84	5.84	1.35	5.66	5.66	1.46	5.48	5.48	1.59	5.30	5.30	1.72	4.91	4.91	1.87	4.59	4.59	2.07
	22°C	27°C	6.27	3.31	1.37	6.05	3.23	1.48	5.82	3.15	1.61	5.59	3.06	1.74	5.14	2.86	1.89	4.75	2.70	2.08
		30°C	6.28	4.06	1.37	6.06	3.98	1.48	5.83	3.89	1.61	5.60	3.80	1.74	5.15	3.56	1.89	4.76	3.37	2.08
		33°C	6.29	4.76	1.37	6.07	4.67	1.48	5.85	4.57	1.61	5.62	4.47	1.74	5.17	4.20	1.89	4.79	3.98	2.08
		36°C	6.33	5.38	1.37	6.12	5.28	1.49	5.91	5.17	1.61	5.70	5.05	1.75	5.25	4.72	1.90	4.90	4.45	2.09
450	16°C	21°C	5.37	3.73	1.33	5.17	3.63	1.44	4.98	3.54	1.56	4.77	3.44	1.69	4.37	3.20	1.83	4.03	3.01	2.02
		24°C	5.40	4.53	1.33	5.20	4.42	1.44	5.01	4.31	1.56	4.81	4.20	1.69	4.41	3.92	1.84	4.08	3.70	2.03
		27°C	5.49	5.19	1.34	5.31	5.06	1.45	5.13	4.91	1.57	4.94	4.76	1.70	4.57	4.41	1.85	4.26	4.12	2.04
		30°C	5.76	5.76	1.35	5.59	5.59	1.46	5.42	5.42	1.59	5.24	5.24	1.72	4.85	4.85	1.87	4.53	4.53	2.06
	19°C	24°C	5.91	3.57	1.35	5.70	3.49	1.47	5.48	3.40	1.59	5.26	3.30	1.72	4.83	3.08	1.87	4.46	2.91	2.06
		27°C	5.93	4.14	1.36	5.72	4.04	1.47	5.50	3.95	1.59	5.28	3.85	1.72	4.85	3.60	1.87	4.48	3.41	2.06
		30°C	5.98	5.09	1.36	5.77	4.98	1.47	5.56	4.86	1.59	5.35	4.74	1.73	4.92	4.43	1.88	4.57	4.18	2.07
		33°C	6.11	6.11	1.36	5.93	5.93	1.48	5.75	5.75	1.60	5.56	5.56	1.74	5.15	5.15	1.89	4.81	4.81	2.09
	22°C	27°C	6.49	3.50	1.38	6.26	3.42	1.49	6.02	3.33	1.62	5.78	3.25	1.76	5.31	3.03	1.90	4.91	2.86	2.10
		30°C	6.50	4.31	1.38	6.27	4.23	1.50	6.03	4.14	1.62	5.79	4.04	1.76	5.32	3.79	1.91	4.92	3.59	2.10
		33°C	6.52	5.05	1.38	6.30	4.96	1.50	6.07	4.86	1.62	5.83	4.75	1.76	5.36	4.45	1.91	4.97	4.23	2.10
		36°C	6.58	5.70	1.39	6.38	5.60	1.50	6.16	5.48	1.63	5.93	5.34	1.77	5.48	4.98	1.92	5.11	4.69	2.12

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN50EXV1 - RN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
430	16°C	21°C	5.05	3.81	1.32	4.87	3.71	1.43	4.69	3.61	1.55	4.50	3.51	1.68	4.14	3.27	1.82	3.82	3.07	2.01
		24°C	5.06	4.57	1.32	4.88	4.46	1.43	4.70	4.36	1.55	4.51	4.25	1.68	4.14	3.97	1.82	3.83	3.74	2.01
		27°C	5.10	5.10	1.32	4.93	4.93	1.43	4.76	4.76	1.55	4.58	4.58	1.68	4.22	4.22	1.83	3.93	3.93	2.02
		30°C	5.26	5.26	1.33	5.11	5.11	1.44	4.95	4.95	1.56	4.79	4.79	1.70	4.44	4.44	1.84	4.16	4.16	2.04
	19°C	24°C	5.57	3.56	1.34	5.38	3.47	1.45	5.18	3.38	1.58	4.98	3.28	1.71	4.57	3.06	1.85	4.23	2.88	2.04
		27°C	5.58	4.07	1.34	5.38	3.98	1.45	5.18	3.89	1.58	4.98	3.80	1.71	4.58	3.55	1.85	4.23	3.36	2.04
		30°C	5.59	5.03	1.34	5.39	4.92	1.45	5.20	4.81	1.58	5.01	4.69	1.71	4.61	4.39	1.86	4.28	4.15	2.05
		33°C	5.65	5.65	1.35	5.47	5.47	1.46	5.29	5.29	1.58	5.11	5.11	1.72	4.73	4.73	1.86	4.42	4.42	2.06
	22°C	27°C	6.13	3.48	1.37	5.92	3.40	1.48	5.70	3.32	1.61	5.48	3.22	1.74	5.04	3.00	1.89	4.67	2.83	2.08
		30°C	6.13	4.25	1.37	5.92	4.16	1.48	5.70	4.06	1.61	5.48	3.97	1.74	5.04	3.71	1.89	4.67	3.52	2.08
		33°C	6.14	4.96	1.37	5.92	4.87	1.48	5.71	4.77	1.61	5.49	4.67	1.74	5.05	4.38	1.89	4.68	4.16	2.08
		36°C	6.16	5.62	1.37	5.95	5.51	1.48	5.75	5.40	1.61	5.54	5.28	1.75	5.11	4.95	1.89	4.75	4.69	2.09
530	16°C	21°C	5.26	3.98	1.33	5.07	3.88	1.44	4.88	3.77	1.56	4.68	3.67	1.69	4.29	3.41	1.84	3.96	3.21	2.03
		24°C	5.27	4.83	1.33	5.08	4.72	1.44	4.89	4.60	1.56	4.70	4.49	1.70	4.31	4.19	1.84	3.99	3.95	2.03
		27°C	5.34	5.34	1.34	5.16	5.16	1.45	4.98	4.98	1.57	4.80	4.80	1.70	4.43	4.43	1.85	4.13	4.13	2.04
		30°C	5.56	5.56	1.35	5.40	5.40	1.46	5.23	5.23	1.58	5.06	5.06	1.72	4.69	4.69	1.87	4.39	4.39	2.06
	19°C	24°C	5.79	3.76	1.36	5.59	3.67	1.47	5.38	3.57	1.59	5.16	3.47	1.72	4.74	3.24	1.87	4.38	3.05	2.06
		27°C	5.80	4.33	1.36	5.60	4.24	1.47	5.39	4.14	1.59	5.17	4.04	1.72	4.75	3.78	1.87	4.39	3.58	2.06
		30°C	5.83	5.35	1.36	5.63	5.23	1.47	5.43	5.11	1.59	5.22	4.99	1.73	4.81	4.67	1.87	4.46	4.41	2.07
		33°C	5.93	5.93	1.36	5.75	5.75	1.48	5.56	5.56	1.60	5.38	5.38	1.74	4.98	4.98	1.89	4.66	4.66	2.09
	22°C	27°C	6.37	3.68	1.38	6.14	3.60	1.50	5.91	3.51	1.62	5.68	3.41	1.76	5.22	3.18	1.91	4.83	3.00	2.10
		30°C	6.37	4.52	1.38	6.15	4.43	1.50	5.92	4.33	1.62	5.68	4.23	1.76	5.22	3.96	1.91	4.83	3.76	2.10
		33°C	6.38	5.30	1.38	6.16	5.20	1.50	5.94	5.09	1.62	5.70	4.98	1.76	5.25	4.67	1.91	4.86	4.44	2.10
		36°C	6.42	5.99	1.38	6.22	5.88	1.50	6.00	5.75	1.63	5.78	5.62	1.77	5.33	5.26	1.92	4.97	4.96	2.11
600	16°C	21°C	5.45	4.15	1.34	5.25	4.05	1.45	5.05	3.94	1.57	4.84	3.83	1.71	4.44	3.57	1.85	4.09	3.36	2.04
		24°C	5.48	5.04	1.35	5.28	4.92	1.46	5.08	4.80	1.58	4.88	4.68	1.71	4.48	4.36	1.85	4.14	4.12	2.04
		27°C	5.57	5.57	1.35	5.39	5.39	1.46	5.21	5.21	1.58	5.02	5.02	1.72	4.64	4.64	1.87	4.32	4.32	2.06
		30°C	5.85	5.85	1.36	5.68	5.68	1.48	5.50	5.50	1.60	5.32	5.32	1.74	4.93	4.93	1.89	4.60	4.60	2.08
	19°C	24°C	6.00	3.98	1.37	5.78	3.88	1.48	5.57	3.78	1.60	5.34	3.68	1.74	4.90	3.43	1.89	4.52	3.24	2.08
		27°C	6.02	4.61	1.37	5.80	4.50	1.48	5.59	4.40	1.60	5.36	4.29	1.74	4.92	4.01	1.89	4.55	3.79	2.08
		30°C	6.07	5.67	1.37	5.85	5.55	1.48	5.64	5.42	1.61	5.43	5.28	1.74	5.00	4.93	1.89	4.64	4.64	2.09
		33°C	6.20	6.20	1.38	6.02	6.02	1.49	5.83	5.83	1.62	5.64	5.64	1.76	5.23	5.23	1.91	4.89	4.89	2.11
	22°C	27°C	6.59	3.89	1.39	6.35	3.81	1.51	6.11	3.71	1.64	5.87	3.62	1.77	5.39	3.37	1.92	4.98	3.19	2.12
		30°C	6.60	4.80	1.39	6.36	4.71	1.51	6.13	4.61	1.64	5.88	4.50	1.77	5.40	4.22	1.92	5.00	4.00	2.12
		33°C	6.62	5.63	1.39	6.39	5.53	1.51	6.16	5.41	1.64	5.92	5.29	1.78	5.44	4.96	1.93	5.04	4.71	2.12
		36°C	6.68	6.35	1.40	6.47	6.24	1.52	6.25	6.10	1.64	6.02	5.95	1.78	5.57	5.55	1.94	5.19	5.19	2.14

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN60EXV1 - RN60CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
530	16°C	21°C	6.14	4.34	1.47	5.92	4.23	1.59	5.70	4.11	1.73	5.47	4.00	1.87	5.03	3.72	2.03	4.64	3.50	2.24
		24°C	6.15	5.20	1.47	5.93	5.08	1.59	5.71	4.96	1.73	5.48	4.84	1.87	5.04	4.52	2.03	4.66	4.26	2.24
		27°C	6.20	5.89	1.48	5.99	5.76	1.60	5.78	5.62	1.73	5.56	5.48	1.88	5.13	5.10	2.04	4.77	4.77	2.25
		30°C	6.39	6.39	1.48	6.20	6.20	1.61	6.01	6.01	1.74	5.82	5.82	1.89	5.40	5.40	2.06	5.05	5.05	2.27
	19°C	24°C	6.77	4.05	1.50	6.53	3.95	1.62	6.29	3.85	1.76	6.04	3.74	1.90	5.56	3.48	2.07	5.14	3.28	2.28
		27°C	6.78	4.64	1.50	6.54	4.53	1.62	6.30	4.43	1.76	6.05	4.32	1.91	5.56	4.04	2.07	5.14	3.83	2.28
		30°C	6.79	5.72	1.50	6.55	5.60	1.62	6.32	5.48	1.76	6.08	5.34	1.91	5.60	5.00	2.07	5.19	4.73	2.28
		33°C	6.87	6.87	1.50	6.64	6.64	1.63	6.43	6.43	1.76	6.21	6.21	1.91	5.74	5.74	2.08	5.37	5.37	2.30
	22°C	27°C	7.45	3.97	1.52	7.19	3.87	1.65	6.93	3.77	1.79	6.66	3.67	1.94	6.12	3.42	2.11	5.67	3.22	2.32
		30°C	7.45	4.83	1.52	7.19	4.73	1.65	6.93	4.62	1.79	6.66	4.51	1.94	6.12	4.23	2.11	5.67	4.01	2.32
		33°C	7.46	5.65	1.52	7.20	5.54	1.65	6.94	5.43	1.79	6.66	5.32	1.94	6.13	4.99	2.11	5.68	4.74	2.32
		36°C	7.48	6.40	1.53	7.23	6.27	1.65	6.98	6.14	1.79	6.73	6.01	1.95	6.20	5.63	2.11	5.77	5.34	2.33
600	16°C	21°C	6.39	4.53	1.49	6.16	4.41	1.61	5.92	4.29	1.74	5.68	4.17	1.89	5.21	3.88	2.05	4.81	3.66	2.26
		24°C	6.41	5.50	1.49	6.18	5.37	1.61	5.94	5.24	1.74	5.70	5.11	1.89	5.24	4.76	2.05	4.84	4.50	2.26
		27°C	6.48	6.24	1.49	6.27	6.10	1.61	6.05	5.94	1.75	5.83	5.76	1.90	5.38	5.35	2.06	5.02	5.01	2.27
		30°C	6.75	6.75	1.50	6.56	6.56	1.63	6.36	6.36	1.76	6.15	6.15	1.92	5.70	5.70	2.08	5.33	5.33	2.30
	19°C	24°C	7.04	4.28	1.51	6.79	4.18	1.64	6.53	4.07	1.77	6.27	3.95	1.92	5.76	3.69	2.08	5.32	3.47	2.30
		27°C	7.05	4.93	1.51	6.80	4.82	1.64	6.54	4.71	1.77	6.28	4.60	1.92	5.77	4.30	2.09	5.33	4.07	2.30
		30°C	7.08	6.09	1.51	6.84	5.95	1.64	6.59	5.82	1.78	6.34	5.68	1.93	5.84	5.31	2.09	5.41	5.02	2.30
		33°C	7.20	7.20	1.52	6.98	6.98	1.65	6.76	6.76	1.79	6.53	6.53	1.94	6.05	6.05	2.11	5.66	5.66	2.32
	22°C	27°C	7.73	4.19	1.54	7.46	4.09	1.67	7.18	3.99	1.81	6.90	3.88	1.96	6.34	3.62	2.13	5.86	3.42	2.34
		30°C	7.74	5.15	1.54	7.47	5.04	1.67	7.19	4.93	1.81	6.90	4.81	1.96	6.35	4.51	2.13	5.87	4.28	2.34
		33°C	7.75	6.03	1.54	7.48	5.91	1.67	7.21	5.79	1.81	6.93	5.67	1.96	6.37	5.32	2.13	5.91	5.05	2.35
		36°C	7.80	6.82	1.54	7.55	6.69	1.67	7.29	6.55	1.81	7.02	6.40	1.97	6.48	5.98	2.14	6.04	5.65	2.36
680	16°C	21°C	6.62	4.72	1.50	6.38	4.60	1.62	6.14	4.48	1.76	5.88	4.36	1.90	5.39	4.06	2.06	4.97	3.82	2.28
		24°C	6.66	5.74	1.50	6.42	5.60	1.62	6.17	5.47	1.76	5.92	5.32	1.91	5.44	4.97	2.07	5.03	4.68	2.28
		27°C	6.76	6.58	1.51	6.54	6.41	1.63	6.32	6.23	1.77	6.10	6.04	1.92	5.63	5.59	2.08	5.25	5.22	2.30
		30°C	7.10	7.10	1.52	6.90	6.90	1.65	6.68	6.68	1.78	6.46	6.46	1.94	5.98	5.98	2.10	5.59	5.59	2.32
	19°C	24°C	7.29	4.53	1.52	7.03	4.42	1.65	6.76	4.31	1.79	6.48	4.19	1.94	5.95	3.91	2.10	5.49	3.68	2.32
		27°C	7.31	5.24	1.53	7.05	5.12	1.65	6.78	5.00	1.79	6.51	4.88	1.94	5.98	4.56	2.10	5.52	4.32	2.32
		30°C	7.37	6.45	1.53	7.11	6.31	1.65	6.86	6.17	1.79	6.59	6.01	1.94	6.07	5.61	2.11	5.64	5.29	2.33
		33°C	7.53	7.53	1.54	7.31	7.31	1.66	7.09	7.09	1.81	6.85	6.85	1.96	6.35	6.35	2.13	5.94	5.94	2.35
	22°C	27°C	8.00	4.43	1.55	7.71	4.34	1.68	7.42	4.23	1.82	7.13	4.12	1.98	6.55	3.84	2.14	6.05	3.63	2.36
		30°C	8.02	5.46	1.55	7.73	5.36	1.68	7.44	5.24	1.82	7.14	5.12	1.98	6.56	4.80	2.15	6.07	4.55	2.36
		33°C	8.04	6.40	1.56	7.77	6.29	1.69	7.48	6.16	1.83	7.19	6.02	1.98	6.61	5.65	2.15	6.12	5.36	2.37
		36°C	8.11	7.23	1.56	7.86	7.10	1.69	7.59	6.94	1.83	7.32	6.77	1.99	6.76	6.32	2.16	6.31	5.95	2.38

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN71EXV1 - RR71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
620	16°C	21°C	7.46	5.49	2.12	7.19	5.34	2.29	6.93	5.20	2.48	6.65	5.05	2.69	6.10	4.70	2.92	5.64	4.42	3.22
		24°C	7.47	6.57	2.12	7.20	6.42	2.29	6.94	6.27	2.48	6.66	6.11	2.69	6.12	5.71	2.92	5.66	5.39	3.22
		27°C	7.53	7.45	2.12	7.28	7.28	2.30	7.02	7.02	2.49	6.76	6.76	2.70	6.23	6.23	2.93	5.80	5.80	3.23
		30°C	7.76	7.76	2.13	7.54	7.54	2.31	7.31	7.31	2.51	7.07	7.07	2.72	6.55	6.55	2.96	6.13	6.13	3.26
	19°C	24°C	8.23	5.12	2.15	7.94	4.99	2.33	7.65	4.86	2.53	7.34	4.72	2.74	6.75	4.40	2.97	6.24	4.14	3.28
		27°C	8.23	5.86	2.15	7.94	5.73	2.33	7.65	5.60	2.53	7.35	5.46	2.74	6.76	5.11	2.97	6.25	4.84	3.28
		30°C	8.24	7.23	2.15	7.96	7.08	2.33	7.68	6.92	2.53	7.39	6.76	2.74	6.80	6.32	2.98	6.31	5.98	3.28
		33°C	8.34	8.34	2.16	8.07	8.07	2.34	7.81	7.81	2.54	7.54	7.54	2.75	6.98	6.98	2.99	6.52	6.52	3.30
	22°C	27°C	9.05	5.01	2.19	8.74	4.89	2.38	8.42	4.77	2.57	8.09	4.64	2.79	7.44	4.32	3.03	6.89	4.08	3.34
		30°C	9.05	6.11	2.19	8.74	5.98	2.38	8.42	5.84	2.58	8.09	5.71	2.79	7.44	5.34	3.03	6.89	5.06	3.34
		33°C	9.06	7.14	2.19	8.74	7.00	2.38	8.43	6.86	2.58	8.10	6.72	2.79	7.45	6.31	3.03	6.91	5.99	3.34
		36°C	9.09	8.09	2.19	8.79	7.93	2.38	8.48	7.77	2.58	8.17	7.59	2.80	7.54	7.12	3.04	7.01	6.75	3.35
725	16°C	21°C	7.76	5.72	2.14	7.48	5.58	2.31	7.20	5.43	2.51	6.90	5.27	2.72	6.33	4.91	2.95	5.84	4.62	3.25
		24°C	7.78	6.95	2.14	7.50	6.78	2.31	7.22	6.62	2.51	6.93	6.46	2.72	6.37	6.02	2.95	5.89	5.68	3.25
		27°C	7.88	7.88	2.15	7.61	7.61	2.32	7.35	7.35	2.51	7.09	7.09	2.73	6.54	6.54	2.96	6.09	6.09	3.27
		30°C	8.21	8.21	2.16	7.97	7.97	2.34	7.72	7.72	2.54	7.47	7.47	2.75	6.92	6.92	2.99	6.47	6.47	3.30
	19°C	24°C	8.55	5.41	2.17	8.24	5.28	2.35	7.93	5.14	2.55	7.62	5.00	2.76	6.99	4.66	3.00	6.46	4.39	3.30
		27°C	8.56	6.24	2.17	8.26	6.10	2.35	7.95	5.96	2.55	7.63	5.82	2.77	7.01	5.44	3.00	6.48	5.15	3.31
		30°C	8.60	7.69	2.18	8.31	7.53	2.36	8.01	7.36	2.55	7.70	7.18	2.77	7.09	6.71	3.01	6.58	6.34	3.31
		33°C	8.75	8.75	2.18	8.48	8.48	2.37	8.21	8.21	2.57	7.94	7.94	2.79	7.35	7.35	3.03	6.87	6.87	3.34
	22°C	27°C	9.39	5.30	2.21	9.06	5.18	2.40	8.73	5.05	2.60	8.38	4.91	2.82	7.70	4.58	3.06	7.12	4.32	3.37
		30°C	9.40	6.50	2.21	9.07	6.37	2.40	8.73	6.23	2.60	8.39	6.08	2.82	7.71	5.70	3.06	7.13	5.41	3.37
		33°C	9.42	7.62	2.22	9.09	7.48	2.40	8.76	7.32	2.60	8.42	7.17	2.82	7.74	6.72	3.06	7.18	6.38	3.37
		36°C	9.48	8.62	2.22	9.17	8.45	2.41	8.85	8.28	2.61	8.53	8.09	2.83	7.87	7.57	3.07	7.34	7.14	3.39
860	16°C	21°C	8.05	5.97	2.16	7.75	5.82	2.33	7.45	5.67	2.53	7.15	5.51	2.74	6.55	5.13	2.97	6.04	4.83	3.27
		24°C	8.09	7.26	2.16	7.80	7.09	2.33	7.50	6.91	2.53	7.20	6.73	2.74	6.61	6.28	2.97	6.11	5.92	3.28
		27°C	8.22	8.22	2.17	7.95	7.95	2.34	7.68	7.68	2.54	7.41	7.41	2.76	6.84	6.84	2.99	6.38	6.38	3.30
		30°C	8.63	8.63	2.18	8.38	8.38	2.37	8.12	8.12	2.57	7.85	7.85	2.79	7.27	7.27	3.03	6.79	6.79	3.34
	19°C	24°C	8.86	5.73	2.19	8.54	5.59	2.37	8.21	5.44	2.57	7.88	5.30	2.79	7.23	4.94	3.02	6.67	4.66	3.33
		27°C	8.88	6.63	2.19	8.56	6.48	2.37	8.24	6.32	2.57	7.91	6.17	2.79	7.26	5.77	3.03	6.71	5.46	3.33
		30°C	8.96	8.16	2.20	8.64	7.98	2.38	8.33	7.80	2.58	8.01	7.60	2.80	7.38	7.10	3.03	6.85	6.69	3.35
		33°C	9.15	9.15	2.21	8.88	8.88	2.39	8.61	8.61	2.60	8.33	8.33	2.82	7.71	7.71	3.06	7.21	7.21	3.38
	22°C	27°C	9.72	5.60	2.23	9.37	5.48	2.42	9.02	5.34	2.62	8.66	5.20	2.84	7.95	4.86	3.08	7.35	4.58	3.39
		30°C	9.74	6.91	2.23	9.39	6.78	2.42	9.04	6.63	2.62	8.68	6.48	2.84	7.97	6.07	3.08	7.37	5.75	3.40
		33°C	9.77	8.10	2.24	9.44	7.96	2.42	9.09	7.79	2.63	8.73	7.62	2.85	8.03	7.14	3.09	7.44	6.77	3.40
		36°C	9.86	9.14	2.24	9.55	8.98	2.43	9.22	8.78	2.64	8.89	8.56	2.86	8.21	7.99	3.11	7.66	7.52	3.43

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. ▭ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN100EXV1- RR90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
740	16°C	21°C	8.07	6.17	2.14	7.78	6.00	2.32	7.50	5.84	2.51	7.19	5.68	2.72	6.61	5.28	2.95	6.10	4.97	3.25
		24°C	8.08	7.38	2.14	7.79	7.21	2.32	7.51	7.05	2.51	7.21	6.87	2.72	6.62	6.42	2.95	6.12	6.05	3.26
		27°C	8.14	8.14	2.15	7.87	7.87	2.32	7.60	7.60	2.52	7.31	7.31	2.73	6.75	6.75	2.96	6.28	6.28	3.27
		30°C	8.40	8.40	2.16	8.15	8.15	2.34	7.91	7.91	2.53	7.65	7.65	2.75	7.09	7.09	2.99	6.64	6.64	3.30
	19°C	24°C	8.90	5.76	2.18	8.59	5.61	2.36	8.27	5.46	2.55	7.95	5.31	2.77	7.30	4.94	3.00	6.75	4.65	3.31
		27°C	8.91	6.59	2.18	8.59	6.44	2.36	8.28	6.29	2.55	7.95	6.14	2.77	7.31	5.74	3.00	6.76	5.44	3.31
		30°C	8.92	8.13	2.18	8.61	7.95	2.36	8.31	7.78	2.56	7.99	7.59	2.77	7.36	7.10	3.01	6.83	6.72	3.32
		33°C	9.03	9.03	2.18	8.73	8.73	2.36	8.45	8.45	2.56	8.16	8.16	2.78	7.55	7.55	3.02	7.06	7.06	3.34
	22°C	27°C	9.79	5.63	2.22	9.45	5.50	2.40	9.11	5.36	2.60	8.75	5.21	2.82	8.05	4.86	3.06	7.45	4.58	3.37
		30°C	9.80	6.87	2.22	9.46	6.72	2.40	9.11	6.57	2.60	8.76	6.41	2.82	8.05	6.00	3.06	7.45	5.69	3.37
		33°C	9.80	8.02	2.22	9.46	7.87	2.40	9.12	7.71	2.60	8.76	7.55	2.82	8.06	7.09	3.06	7.47	6.73	3.38
		36°C	9.83	9.09	2.22	9.51	8.91	2.40	9.18	8.73	2.61	8.84	8.53	2.83	8.16	8.00	3.07	7.58	7.58	3.39
860	16°C	21°C	8.40	6.43	2.16	8.09	6.26	2.34	7.79	6.10	2.53	7.47	5.93	2.75	6.85	5.52	2.98	6.32	5.19	3.28
		24°C	8.42	7.81	2.16	8.12	7.62	2.34	7.82	7.44	2.53	7.50	7.25	2.75	6.89	6.77	2.98	6.37	6.37	3.29
		27°C	8.52	8.52	2.17	8.24	8.24	2.35	7.95	7.95	2.54	7.67	7.67	2.76	7.08	7.08	2.99	6.59	6.59	3.30
		30°C	8.88	8.88	2.18	8.62	8.62	2.36	8.36	8.36	2.56	8.09	8.09	2.78	7.49	7.49	3.03	7.00	7.00	3.34
	19°C	24°C	9.25	6.08	2.20	8.92	5.93	2.38	8.59	5.78	2.58	8.24	5.62	2.79	7.57	5.23	3.03	6.99	4.93	3.34
		27°C	9.27	7.01	2.20	8.94	6.85	2.38	8.60	6.70	2.58	8.26	6.54	2.80	7.59	6.11	3.03	7.01	5.79	3.34
		30°C	9.31	8.64	2.20	8.99	8.46	2.38	8.67	8.27	2.58	8.33	8.07	2.80	7.67	7.54	3.04	7.12	7.12	3.35
		33°C	9.47	9.47	2.21	9.18	9.18	2.39	8.89	8.89	2.60	8.59	8.59	2.82	7.96	7.96	3.06	7.44	7.44	3.38
	22°C	27°C	10.16	5.96	2.24	9.81	5.82	2.42	9.44	5.67	2.63	9.07	5.52	2.85	8.33	5.15	3.09	7.71	4.85	3.40
		30°C	10.18	7.31	2.24	9.82	7.16	2.42	9.45	7.00	2.63	9.08	6.84	2.85	8.34	6.40	3.09	7.72	6.07	3.41
		33°C	10.20	8.57	2.24	9.84	8.40	2.43	9.48	8.23	2.63	9.11	8.05	2.85	8.38	7.56	3.10	7.77	7.17	3.41
		36°C	10.26	9.68	2.24	9.93	9.50	2.43	9.58	9.30	2.64	9.23	9.08	2.86	8.52	8.50	3.11	7.94	7.94	3.43
1030	16°C	21°C	8.71	6.71	2.18	8.39	6.54	2.36	8.07	6.37	2.55	7.73	6.19	2.77	7.09	5.77	3.00	6.54	5.43	3.31
		24°C	8.75	8.15	2.18	8.44	7.96	2.36	8.12	7.77	2.56	7.79	7.56	2.77	7.16	7.06	3.01	6.61	6.61	3.31
		27°C	8.90	8.90	2.19	8.60	8.60	2.37	8.31	8.31	2.57	8.02	8.02	2.79	7.41	7.41	3.02	6.90	6.90	3.34
		30°C	9.34	9.34	2.21	9.07	9.07	2.39	8.79	8.79	2.59	8.50	8.50	2.82	7.87	7.87	3.06	7.35	7.35	3.38
	19°C	24°C	9.59	6.44	2.22	9.24	6.28	2.40	8.89	6.12	2.60	8.53	5.95	2.82	7.82	5.55	3.06	7.22	5.23	3.37
		27°C	9.61	7.45	2.22	9.27	7.28	2.40	8.92	7.11	2.60	8.56	6.93	2.82	7.86	6.48	3.06	7.26	6.13	3.37
		30°C	9.69	9.17	2.22	9.35	8.97	2.41	9.01	8.76	2.61	8.67	8.54	2.83	7.98	7.98	3.07	7.41	7.41	3.38
		33°C	9.90	9.90	2.23	9.61	9.61	2.42	9.32	9.32	2.62	9.01	9.01	2.85	8.35	8.35	3.10	7.81	7.81	3.42
	22°C	27°C	10.52	6.30	2.26	10.14	6.16	2.45	9.76	6.00	2.65	9.37	5.85	2.87	8.61	5.46	3.12	7.95	5.15	3.43
		30°C	10.54	7.76	2.26	10.16	7.62	2.45	9.78	7.45	2.65	9.39	7.28	2.88	8.63	6.82	3.12	7.98	6.46	3.43
		33°C	10.58	9.10	2.26	10.21	8.94	2.45	9.84	8.75	2.66	9.45	8.56	2.88	8.69	8.02	3.12	8.05	7.61	3.44
		36°C	10.67	10.27	2.27	10.34	10.09	2.46	9.98	9.86	2.66	9.62	9.62	2.89	8.89	8.89	3.14	8.29	8.29	3.46

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN100EXV1- RR90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
740	16°C	21°C	8.57	6.14	2.10	8.27	5.98	2.28	7.96	5.82	2.47	7.64	5.66	2.67	7.02	5.26	2.90	6.48	4.95	3.20
		24°C	8.58	7.36	2.11	8.28	7.19	2.28	7.97	7.02	2.47	7.65	6.85	2.67	7.03	6.39	2.90	6.50	6.03	3.20
		27°C	8.65	8.34	2.11	8.36	8.15	2.28	8.07	7.96	2.47	7.76	7.76	2.68	7.16	7.16	2.91	6.66	6.66	3.21
		30°C	8.92	8.92	2.12	8.66	8.66	2.29	8.40	8.40	2.49	8.13	8.13	2.70	7.53	7.53	2.93	7.05	7.05	3.24
	19°C	24°C	9.45	5.74	2.14	9.12	5.59	2.31	8.79	5.44	2.51	8.44	5.29	2.72	7.76	4.93	2.95	7.17	4.64	3.25
		27°C	9.46	6.56	2.14	9.13	6.41	2.31	8.79	6.27	2.51	8.45	6.12	2.72	7.76	5.72	2.95	7.18	5.42	3.25
		30°C	9.47	8.10	2.14	9.15	7.93	2.32	8.82	7.75	2.51	8.49	7.56	2.72	7.82	7.07	2.95	7.25	6.69	3.26
		33°C	9.59	9.59	2.14	9.27	9.27	2.32	8.97	8.97	2.52	8.67	8.67	2.73	8.02	8.02	2.97	7.50	7.50	3.28
	22°C	27°C	10.40	5.61	2.18	10.04	5.48	2.36	9.67	5.34	2.56	9.30	5.19	2.77	8.55	4.84	3.01	7.91	4.56	3.31
		30°C	10.40	6.84	2.18	10.04	6.70	2.36	9.68	6.54	2.56	9.30	6.39	2.77	8.55	5.98	3.01	7.92	5.67	3.31
		33°C	10.41	7.99	2.18	10.05	7.84	2.36	9.68	7.68	2.56	9.30	7.52	2.77	8.56	7.06	3.01	7.94	6.71	3.32
		36°C	10.44	9.06	2.18	10.10	8.88	2.36	9.75	8.69	2.56	9.39	8.50	2.78	8.66	7.97	3.02	8.05	7.56	3.33
860	16°C	21°C	8.92	6.41	2.12	8.60	6.24	2.30	8.27	6.08	2.49	7.93	5.91	2.70	7.28	5.50	2.92	6.71	5.18	3.22
		24°C	8.94	7.78	2.12	8.62	7.60	2.30	8.30	7.41	2.49	7.96	7.23	2.70	7.32	6.74	2.93	6.76	6.36	3.23
		27°C	9.05	8.83	2.13	8.75	8.63	2.30	8.45	8.41	2.50	8.14	8.14	2.71	7.52	7.52	2.94	7.00	7.00	3.25
		30°C	9.43	9.43	2.14	9.16	9.16	2.32	8.88	8.88	2.52	8.59	8.59	2.74	7.96	7.96	2.97	7.44	7.44	3.28
	19°C	24°C	9.82	6.06	2.16	9.47	5.91	2.34	9.12	5.76	2.53	8.75	5.60	2.74	8.04	5.22	2.98	7.42	4.92	3.28
		27°C	9.84	6.98	2.16	9.49	6.83	2.34	9.14	6.67	2.53	8.77	6.52	2.75	8.06	6.09	2.98	7.45	5.77	3.28
		30°C	9.89	8.61	2.16	9.54	8.43	2.34	9.20	8.24	2.54	8.85	8.04	2.75	8.15	7.51	2.98	7.56	7.10	3.29
		33°C	10.05	10.05	2.17	9.75	9.75	2.35	9.44	9.44	2.55	9.12	9.12	2.77	8.45	8.45	3.01	7.90	7.90	3.32
	22°C	27°C	10.79	5.94	2.20	10.41	5.80	2.38	10.03	5.65	2.58	9.63	5.50	2.80	8.85	5.13	3.04	8.18	4.84	3.34
		30°C	10.81	7.28	2.20	10.43	7.13	2.38	10.04	6.97	2.58	9.64	6.81	2.80	8.86	6.38	3.04	8.20	6.05	3.34
		33°C	10.83	8.53	2.20	10.45	8.37	2.38	10.07	8.20	2.58	9.67	8.03	2.80	8.90	7.53	3.04	8.25	7.15	3.35
		36°C	10.89	9.65	2.20	10.54	9.47	2.39	10.17	9.27	2.59	9.80	9.05	2.81	9.04	8.47	3.05	8.43	7.99	3.37
1030	16°C	21°C	9.25	6.69	2.14	8.91	6.52	2.32	8.57	6.35	2.51	8.21	6.17	2.72	7.53	5.74	2.95	6.94	5.41	3.25
		24°C	9.30	8.13	2.14	8.96	7.93	2.32	8.62	7.74	2.51	8.27	7.54	2.72	7.60	7.03	2.95	7.02	6.63	3.25
		27°C	9.45	9.31	2.15	9.14	9.07	2.33	8.83	8.82	2.52	8.51	8.51	2.74	7.87	7.87	2.97	7.33	7.33	3.28
		30°C	9.92	9.92	2.17	9.63	9.63	2.35	9.33	9.33	2.55	9.03	9.03	2.77	8.36	8.36	3.01	7.80	7.80	3.32
	19°C	24°C	10.18	6.41	2.18	9.81	6.26	2.36	9.44	6.10	2.55	9.05	5.93	2.77	8.31	5.53	3.00	7.67	5.21	3.31
		27°C	10.21	7.42	2.18	9.84	7.25	2.36	9.47	7.08	2.55	9.09	6.91	2.77	8.35	6.46	3.00	7.71	6.11	3.31
		30°C	10.29	9.13	2.18	9.93	8.93	2.36	9.57	8.73	2.56	9.21	8.51	2.78	8.48	7.95	3.01	7.87	7.49	3.32
		33°C	10.52	10.52	2.19	10.21	10.21	2.38	9.89	9.89	2.58	9.57	9.57	2.80	8.86	8.86	3.04	8.29	8.29	3.36
	22°C	27°C	11.17	6.27	2.22	10.77	6.14	2.40	10.37	5.98	2.60	9.95	5.83	2.82	9.14	5.44	3.06	8.45	5.13	3.37
		30°C	11.19	7.74	2.22	10.79	7.59	2.40	10.39	7.42	2.60	9.97	7.26	2.82	9.16	6.79	3.06	8.47	6.44	3.37
		33°C	11.23	9.07	2.22	10.84	8.91	2.41	10.44	8.72	2.61	10.03	8.53	2.83	9.23	7.99	3.07	8.55	7.59	3.38
		36°C	11.33	10.24	2.23	10.98	10.05	2.41	10.60	9.83	2.62	10.22	9.59	2.84	9.44	8.94	3.08	8.80	8.42	3.40

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN100EXV1- RR100DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
740	16°C	21°C	10.75	7.10	2.98	10.37	6.91	3.22	9.98	6.73	3.49	9.58	6.53	3.78	8.80	6.08	4.10	8.12	5.72	4.52
		24°C	10.76	8.50	2.98	10.38	8.30	3.22	10.00	8.11	3.49	9.60	7.91	3.78	8.82	7.39	4.11	8.15	6.97	4.53
		27°C	10.85	9.63	2.98	10.49	9.42	3.23	10.12	9.19	3.50	9.74	8.96	3.79	8.98	8.34	4.12	8.36	7.83	4.54
		30°C	11.18	11.18	3.00	10.86	10.86	3.25	10.53	10.53	3.52	10.19	10.19	3.82	9.45	9.45	4.15	8.84	8.84	4.59
	19°C	24°C	11.85	6.63	3.03	11.44	6.46	3.28	11.02	6.29	3.55	10.58	6.11	3.85	9.73	5.69	4.18	8.99	5.36	4.60
		27°C	11.86	7.58	3.03	11.44	7.41	3.28	11.03	7.24	3.55	10.59	7.06	3.85	9.74	6.61	4.18	9.00	6.26	4.60
		30°C	11.88	9.35	3.03	11.47	9.16	3.28	11.07	8.95	3.55	10.65	8.74	3.85	9.80	8.17	4.18	9.09	7.73	4.61
		33°C	12.02	12.02	3.03	11.63	11.63	3.29	11.25	11.25	3.56	10.87	10.87	3.87	10.06	10.06	4.20	9.40	9.40	4.64
	22°C	27°C	13.04	6.49	3.08	12.59	6.33	3.34	12.13	6.17	3.62	11.66	6.00	3.92	10.72	5.59	4.26	9.92	5.27	4.69
		30°C	13.05	7.90	3.08	12.60	7.73	3.34	12.13	7.56	3.62	11.66	7.38	3.92	10.72	6.91	4.26	9.93	6.55	4.69
		33°C	13.05	9.23	3.08	12.60	9.05	3.34	12.14	8.87	3.62	11.67	8.69	3.93	10.74	8.16	4.26	9.95	7.75	4.69
		36°C	13.10	10.47	3.08	12.66	10.26	3.34	12.22	10.04	3.62	11.78	9.82	3.93	10.86	9.21	4.27	10.10	8.74	4.71
860	16°C	21°C	11.18	7.40	3.01	10.78	7.21	3.25	10.37	7.02	3.52	9.95	6.82	3.82	9.13	6.35	4.14	8.42	5.98	4.56
		24°C	11.22	8.98	3.01	10.81	8.77	3.25	10.41	8.56	3.52	9.99	8.35	3.82	9.18	7.79	4.14	8.48	7.35	4.57
		27°C	11.35	10.20	3.01	10.97	9.97	3.26	10.59	9.71	3.53	10.21	9.42	3.83	9.43	8.75	4.16	8.78	8.19	4.59
		30°C	11.83	11.83	3.03	11.48	11.48	3.29	11.13	11.13	3.56	10.77	10.77	3.87	9.98	9.98	4.21	9.33	9.33	4.64
	19°C	24°C	12.32	7.00	3.05	11.88	6.83	3.31	11.44	6.65	3.58	10.98	6.47	3.88	10.08	6.03	4.21	9.31	5.68	4.64
		27°C	12.34	8.07	3.06	11.90	7.89	3.31	11.46	7.71	3.58	11.00	7.53	3.89	10.10	7.04	4.21	9.34	6.66	4.64
		30°C	12.40	9.95	3.06	11.97	9.73	3.31	11.54	9.52	3.59	11.10	9.28	3.89	10.22	8.68	4.22	9.48	8.20	4.66
		33°C	12.61	12.61	3.07	12.22	12.22	3.33	11.83	11.83	3.61	11.44	11.44	3.92	10.60	10.60	4.26	9.91	9.91	4.70
	22°C	27°C	13.54	6.86	3.11	13.06	6.70	3.37	12.57	6.53	3.65	12.07	6.35	3.96	11.10	5.92	4.30	10.26	5.59	4.73
		30°C	13.55	8.41	3.11	13.08	8.24	3.37	12.59	8.05	3.65	12.09	7.87	3.96	11.11	7.37	4.30	10.28	6.99	4.73
		33°C	13.58	9.86	3.11	13.11	9.67	3.37	12.62	9.47	3.66	12.13	9.27	3.97	11.16	8.70	4.30	10.34	8.26	4.74
		36°C	13.66	11.14	3.12	13.22	10.93	3.38	12.76	10.71	3.67	12.29	10.46	3.98	11.34	9.79	4.32	10.58	9.23	4.76
1030	16°C	21°C	11.60	7.72	3.03	11.17	7.53	3.28	10.74	7.33	3.55	10.30	7.12	3.85	9.45	6.64	4.17	8.71	6.25	4.60
		24°C	11.66	9.39	3.03	11.23	9.16	3.28	10.81	8.94	3.55	10.38	8.70	3.85	9.53	8.12	4.18	8.80	7.66	4.60
		27°C	11.85	10.76	3.04	11.46	10.48	3.29	11.07	10.19	3.57	10.67	9.87	3.87	9.86	9.14	4.20	9.19	8.54	4.64
		30°C	12.44	12.44	3.07	12.08	12.08	3.32	11.70	11.70	3.61	11.32	11.32	3.91	10.48	10.48	4.25	9.79	9.79	4.69
	19°C	24°C	12.77	7.41	3.08	12.30	7.23	3.33	11.84	7.04	3.61	11.35	6.85	3.92	10.42	6.39	4.25	9.62	6.02	4.68
		27°C	12.80	8.57	3.08	12.34	8.38	3.34	11.88	8.18	3.61	11.40	7.98	3.92	10.47	7.46	4.25	9.67	7.06	4.68
		30°C	12.91	10.55	3.09	12.45	10.32	3.34	12.01	10.08	3.62	11.55	9.83	3.93	10.63	9.18	4.26	9.87	8.65	4.70
		33°C	13.19	13.19	3.10	12.80	12.80	3.36	12.41	12.41	3.65	12.00	12.00	3.96	11.12	11.12	4.30	10.40	10.40	4.75
	22°C	27°C	14.01	7.25	3.14	13.51	7.09	3.40	13.00	6.91	3.68	12.48	6.73	3.99	11.46	6.28	4.33	10.59	5.93	4.77
		30°C	14.04	8.94	3.14	13.54	8.77	3.40	13.03	8.58	3.69	12.50	8.38	4.00	11.49	7.85	4.33	10.63	7.44	4.77
		33°C	14.09	10.47	3.14	13.60	10.29	3.41	13.10	10.07	3.69	12.58	9.85	4.00	11.58	9.23	4.34	10.72	8.76	4.78
		36°C	14.21	11.82	3.15	13.77	11.61	3.42	13.29	11.35	3.70	12.81	11.07	4.02	11.84	10.33	4.36	11.04	9.72	4.81

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FCRN125EXV1- RR125DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
930	16°C	21°C	11.88	8.18	3.34	11.46	7.97	3.61	11.03	7.75	3.91	10.59	7.53	4.24	9.73	7.01	4.60	8.98	6.59	5.07
		24°C	11.90	9.80	3.34	11.47	9.57	3.61	11.05	9.35	3.91	10.61	9.12	4.24	9.75	8.52	4.60	9.01	8.04	5.07
		27°C	11.99	11.11	3.34	11.59	10.86	3.61	11.18	10.60	3.92	10.76	10.33	4.25	9.93	9.61	4.61	9.24	9.03	5.09
		30°C	12.36	12.36	3.36	12.00	12.00	3.64	11.64	11.64	3.94	11.27	11.27	4.28	10.44	10.44	4.65	9.77	9.77	5.14
	19°C	24°C	13.11	7.64	3.39	12.65	7.45	3.67	12.18	7.25	3.97	11.70	7.04	4.31	10.75	6.56	4.68	9.94	6.18	5.15
		27°C	13.11	8.74	3.39	12.65	8.54	3.67	12.19	8.35	3.98	11.71	8.15	4.31	10.76	7.62	4.68	9.95	7.22	5.16
		30°C	13.13	10.79	3.39	12.68	10.56	3.67	12.23	10.32	3.98	11.77	10.07	4.32	10.84	9.42	4.68	10.05	8.92	5.16
		33°C	13.29	13.29	3.40	12.86	12.86	3.68	12.44	12.44	3.99	12.02	12.02	4.33	11.12	11.12	4.71	10.39	10.39	5.20
	22°C	27°C	14.42	7.48	3.45	13.92	7.30	3.74	13.41	7.11	4.05	12.89	6.92	4.39	11.85	6.45	4.77	10.97	6.08	5.25
		30°C	14.42	9.11	3.45	13.92	8.92	3.74	13.41	8.72	4.05	12.89	8.51	4.40	11.85	7.96	4.77	10.97	7.55	5.25
		33°C	14.43	10.64	3.45	13.93	10.44	3.74	13.42	10.23	4.05	12.90	10.02	4.40	11.87	9.41	4.77	11.00	8.94	5.26
		36°C	14.48	12.07	3.45	14.00	11.83	3.74	13.51	11.58	4.06	13.02	11.32	4.40	12.01	10.62	4.78	11.16	10.07	5.27
1030	16°C	21°C	12.36	8.53	3.37	11.91	8.31	3.64	11.46	8.09	3.94	10.99	7.86	4.27	10.09	7.32	4.63	9.31	6.89	5.11
		24°C	12.40	10.36	3.37	11.95	10.11	3.64	11.51	9.87	3.95	11.04	9.62	4.28	10.14	8.98	4.64	9.38	8.47	5.11
		27°C	12.55	11.76	3.38	12.13	11.49	3.65	11.71	11.19	3.96	11.29	10.86	4.29	10.42	10.09	4.66	9.71	9.44	5.14
		30°C	13.07	13.07	3.40	12.69	12.69	3.68	12.31	12.31	3.99	11.91	11.91	4.33	11.03	11.03	4.71	10.31	10.31	5.20
	19°C	24°C	13.62	8.07	3.42	13.13	7.87	3.70	12.64	7.66	4.01	12.13	7.45	4.35	11.14	6.95	4.72	10.29	6.55	5.20
		27°C	13.64	9.30	3.42	13.15	9.09	3.70	12.66	8.89	4.01	12.15	8.68	4.35	11.17	8.11	4.72	10.32	7.68	5.20
		30°C	13.71	11.47	3.43	13.23	11.22	3.71	12.76	10.97	4.02	12.27	10.70	4.36	11.30	10.01	4.73	10.48	9.45	5.22
		33°C	13.94	13.94	3.44	13.51	13.51	3.72	13.08	13.08	4.04	12.65	12.65	4.39	11.71	11.71	4.77	10.95	10.95	5.26
	22°C	27°C	14.96	7.90	3.48	14.44	7.72	3.77	13.90	7.52	4.09	13.35	7.32	4.44	12.26	6.83	4.81	11.34	6.44	5.30
		30°C	14.98	9.70	3.48	14.45	9.50	3.77	13.91	9.29	4.09	13.36	9.07	4.44	12.28	8.49	4.81	11.36	8.06	5.30
		33°C	15.01	11.36	3.49	14.49	11.15	3.78	13.95	10.92	4.10	13.41	10.69	4.44	12.33	10.02	4.82	11.43	9.52	5.31
		36°C	15.10	12.85	3.49	14.61	12.60	3.79	14.10	12.34	4.10	13.59	12.05	4.45	12.54	11.28	4.83	11.69	10.64	5.33
1200	16°C	21°C	12.82	8.90	3.39	12.35	8.68	3.67	11.87	8.45	3.97	11.38	8.21	4.31	10.44	7.65	4.67	9.62	7.20	5.15
		24°C	12.89	10.82	3.40	12.42	10.56	3.67	11.95	10.30	3.98	11.47	10.03	4.31	10.53	9.36	4.68	9.73	8.83	5.16
		27°C	13.09	12.40	3.41	12.67	12.08	3.69	12.24	11.74	4.00	11.80	11.38	4.34	10.90	10.54	4.71	10.16	9.84	5.20
		30°C	13.75	13.75	3.44	13.35	13.35	3.72	12.94	12.94	4.04	12.51	12.51	4.38	11.58	11.58	4.76	10.82	10.82	5.26
	19°C	24°C	14.11	8.54	3.45	13.60	8.33	3.73	13.08	8.12	4.04	12.55	7.90	4.39	11.52	7.36	4.76	10.63	6.94	5.24
		27°C	14.15	9.88	3.45	13.64	9.65	3.74	13.13	9.43	4.05	12.60	9.20	4.39	11.57	8.60	4.76	10.69	8.14	5.25
		30°C	14.27	12.16	3.46	13.76	11.89	3.74	13.27	11.62	4.06	12.76	11.33	4.40	11.75	10.58	4.77	10.91	9.98	5.26
		33°C	14.58	14.58	3.47	14.15	14.15	3.77	13.71	13.71	4.09	13.26	13.26	4.44	12.29	12.29	4.82	11.49	11.49	5.32
	22°C	27°C	15.48	8.35	3.51	14.93	8.17	3.81	14.37	7.97	4.13	13.79	7.76	4.47	12.67	7.24	4.85	11.71	6.84	5.34
		30°C	15.51	10.30	3.52	14.96	10.10	3.81	14.40	9.88	4.13	13.82	9.66	4.48	12.70	9.05	4.85	11.74	8.58	5.35
		33°C	15.57	12.07	3.52	15.03	11.86	3.81	14.48	11.61	4.13	13.91	11.35	4.48	12.80	10.64	4.86	11.85	10.10	5.36
		36°C	15.71	13.63	3.53	15.21	13.38	3.82	14.69	13.09	4.15	14.16	12.76	4.50	13.08	11.90	4.89	12.20	11.21	5.39

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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R410A Heatpump

Model: FFQN25CXV1 - RYN25CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
330	16°C	21°C	2.62	2.08	0.68	2.53	2.03	0.74	2.43	1.97	0.80	2.34	1.92	0.87	2.15	1.78	0.94	1.98	1.68	1.04
		24°C	2.63	2.49	0.68	2.53	2.44	0.74	2.44	2.38	0.80	2.34	2.32	0.87	2.15	2.15	0.94	1.99	1.99	1.04
		27°C	2.65	2.65	0.69	2.56	2.56	0.74	2.47	2.47	0.80	2.37	2.37	0.87	2.19	2.19	0.95	2.04	2.04	1.04
		30°C	2.73	2.73	0.69	2.65	2.65	0.75	2.57	2.57	0.81	2.49	2.49	0.88	2.30	2.30	0.95	2.16	2.16	1.05
	19°C	24°C	2.89	1.94	0.69	2.79	1.89	0.75	2.69	1.84	0.81	2.58	1.79	0.88	2.37	1.67	0.96	2.19	1.57	1.06
		27°C	2.89	2.22	0.69	2.79	2.17	0.75	2.69	2.12	0.81	2.58	2.07	0.88	2.37	1.94	0.96	2.20	1.84	1.06
		30°C	2.90	2.74	0.69	2.80	2.69	0.75	2.70	2.63	0.82	2.60	2.56	0.88	2.39	2.39	0.96	2.22	2.22	1.06
		33°C	2.93	2.93	0.70	2.84	2.84	0.75	2.75	2.75	0.82	2.65	2.65	0.89	2.45	2.45	0.96	2.29	2.29	1.07
	22°C	27°C	3.18	1.90	0.71	3.07	1.86	0.77	2.96	1.81	0.83	2.84	1.76	0.90	2.61	1.64	0.98	2.42	1.55	1.08
		30°C	3.18	2.32	0.71	3.07	2.27	0.77	2.96	2.22	0.83	2.84	2.16	0.90	2.62	2.03	0.98	2.42	1.92	1.08
		33°C	3.18	2.71	0.71	3.07	2.66	0.77	2.96	2.60	0.83	2.85	2.55	0.90	2.62	2.39	0.98	2.43	2.27	1.08
		36°C	3.19	3.07	0.71	3.09	3.01	0.77	2.98	2.95	0.83	2.87	2.87	0.90	2.65	2.65	0.98	2.46	2.46	1.08
360	16°C	21°C	2.73	2.17	0.69	2.63	2.11	0.75	2.53	2.06	0.81	2.43	2.00	0.88	2.23	1.86	0.95	2.05	1.75	1.05
		24°C	2.74	2.63	0.69	2.64	2.57	0.75	2.54	2.51	0.81	2.44	2.44	0.88	2.24	2.24	0.95	2.07	2.07	1.05
		27°C	2.77	2.77	0.69	2.68	2.68	0.75	2.58	2.58	0.81	2.49	2.49	0.88	2.30	2.30	0.96	2.14	2.14	1.05
		30°C	2.88	2.88	0.70	2.80	2.80	0.75	2.72	2.72	0.82	2.63	2.63	0.89	2.43	2.43	0.97	2.27	2.27	1.07
	19°C	24°C	3.00	2.05	0.70	2.90	2.00	0.76	2.79	1.95	0.82	2.68	1.90	0.89	2.46	1.77	0.97	2.27	1.67	1.07
		27°C	3.01	2.37	0.70	2.90	2.31	0.76	2.79	2.26	0.82	2.68	2.21	0.89	2.46	2.06	0.97	2.28	1.95	1.07
		30°C	3.02	2.92	0.70	2.92	2.85	0.76	2.81	2.79	0.82	2.71	2.71	0.89	2.49	2.49	0.97	2.31	2.31	1.07
		33°C	3.07	3.07	0.70	2.98	2.98	0.76	2.89	2.89	0.83	2.79	2.79	0.90	2.58	2.58	0.98	2.42	2.42	1.08
	22°C	27°C	3.30	2.01	0.71	3.19	1.96	0.77	3.07	1.91	0.84	2.94	1.86	0.91	2.71	1.74	0.99	2.50	1.64	1.09
		30°C	3.31	2.47	0.71	3.19	2.42	0.77	3.07	2.36	0.84	2.95	2.31	0.91	2.71	2.16	0.99	2.51	2.05	1.09
		33°C	3.31	2.89	0.71	3.20	2.84	0.77	3.08	2.78	0.84	2.96	2.72	0.91	2.72	2.55	0.99	2.52	2.42	1.09
		36°C	3.33	3.27	0.72	3.22	3.21	0.78	3.11	3.11	0.84	3.00	3.00	0.91	2.77	2.77	0.99	2.58	2.58	1.09
410	16°C	21°C	2.83	2.27	0.70	2.72	2.21	0.75	2.62	2.15	0.81	2.51	2.09	0.88	2.30	1.95	0.96	2.12	1.83	1.06
		24°C	2.84	2.75	0.70	2.74	2.69	0.75	2.64	2.62	0.82	2.53	2.53	0.88	2.32	2.32	0.96	2.15	2.15	1.06
		27°C	2.89	2.89	0.70	2.79	2.79	0.76	2.70	2.70	0.82	2.60	2.60	0.89	2.41	2.41	0.97	2.24	2.24	1.07
		30°C	3.03	3.03	0.70	2.94	2.94	0.76	2.85	2.85	0.83	2.76	2.76	0.90	2.56	2.56	0.98	2.39	2.39	1.08
	19°C	24°C	3.11	2.17	0.71	3.00	2.12	0.77	2.89	2.06	0.83	2.77	2.01	0.90	2.54	1.87	0.98	2.35	1.77	1.07
		27°C	3.12	2.51	0.71	3.01	2.46	0.77	2.90	2.40	0.83	2.78	2.34	0.90	2.55	2.19	0.98	2.36	2.07	1.08
		30°C	3.15	3.09	0.71	3.04	3.03	0.77	2.93	2.93	0.83	2.82	2.82	0.90	2.59	2.59	0.98	2.41	2.41	1.08
		33°C	3.22	3.22	0.71	3.12	3.12	0.77	3.03	3.03	0.84	2.93	2.93	0.91	2.71	2.71	0.99	2.54	2.54	1.09
	22°C	27°C	3.42	2.13	0.72	3.29	2.08	0.78	3.17	2.03	0.85	3.04	1.97	0.92	2.80	1.84	0.99	2.58	1.74	1.10
		30°C	3.42	2.62	0.72	3.30	2.57	0.78	3.18	2.51	0.85	3.05	2.46	0.92	2.80	2.30	1.00	2.59	2.18	1.10
		33°C	3.43	3.07	0.72	3.32	3.02	0.78	3.19	2.95	0.85	3.07	2.89	0.92	2.82	2.71	1.00	2.62	2.57	1.10
		36°C	3.47	3.47	0.72	3.36	3.36	0.78	3.24	3.24	0.85	3.12	3.12	0.92	2.89	2.89	1.00	2.69	2.69	1.11

Model: FFQN25CXV1 - RYN25CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	1.683	1.683	1.905	1.905	1.979	1.979	2.793	2.793	3.236	3.236	3.458	3.458	3.680	3.680
17°C	1.639	1.639	1.882	1.882	1.939	1.939	2.789	2.789	3.213	3.213	3.438	3.438	3.663	3.663
19°C	1.595	1.595	1.858	1.858	1.899	1.899	2.786	2.786	3.190	3.190	3.418	3.418	3.645	3.645
21°C	1.551	1.551	1.820	1.820	1.859	1.859	2.760	2.760	3.166	3.166	3.397	3.397	3.628	3.628
23°C	1.507	1.507	1.766	1.766	1.818	1.818	2.713	2.713	3.143	3.143	3.377	3.377	3.610	3.610
25°C	1.463	1.463	1.712	1.712	1.778	1.778	2.665	2.665	3.120	3.120	3.356	3.356	3.593	3.593
27°C	1.418	1.418	1.658	1.658	1.738	1.738	2.617	2.617	3.096	3.096	3.336	3.336	3.576	3.576
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FFQN35CXV1- RYN35CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
330	16°C	21°C	3.45	2.73	0.99	3.33	2.66	1.07	3.21	2.59	1.16	3.08	2.51	1.25	2.83	2.34	1.36	2.61	2.20	1.50
		24°C	3.46	3.27	0.99	3.33	3.20	1.07	3.21	3.12	1.16	3.08	3.04	1.26	2.83	2.83	1.36	2.62	2.62	1.50
		27°C	3.48	3.48	0.99	3.37	3.37	1.07	3.25	3.25	1.16	3.13	3.13	1.26	2.88	2.88	1.37	2.68	2.68	1.51
		30°C	3.59	3.59	0.99	3.49	3.49	1.08	3.38	3.38	1.17	3.27	3.27	1.27	3.03	3.03	1.38	2.84	2.84	1.52
	19°C	24°C	3.81	2.55	1.00	3.67	2.49	1.09	3.54	2.42	1.18	3.40	2.35	1.28	3.12	2.19	1.38	2.89	2.06	1.53
		27°C	3.81	2.92	1.00	3.68	2.85	1.09	3.54	2.79	1.18	3.40	2.72	1.28	3.13	2.54	1.39	2.89	2.41	1.53
		30°C	3.82	3.60	1.00	3.68	3.52	1.09	3.55	3.45	1.18	3.42	3.36	1.28	3.15	3.14	1.39	2.92	2.92	1.53
		33°C	3.86	3.86	1.01	3.74	3.74	1.09	3.61	3.61	1.18	3.49	3.49	1.28	3.23	3.23	1.39	3.02	3.02	1.54
	22°C	27°C	4.19	2.50	1.02	4.04	2.44	1.11	3.90	2.37	1.20	3.74	2.31	1.30	3.44	2.15	1.41	3.19	2.03	1.56
		30°C	4.19	3.04	1.02	4.04	2.98	1.11	3.90	2.91	1.20	3.74	2.84	1.30	3.44	2.66	1.41	3.19	2.52	1.56
		33°C	4.19	3.55	1.02	4.05	3.49	1.11	3.90	3.42	1.20	3.75	3.35	1.30	3.45	3.14	1.41	3.20	2.98	1.56
		36°C	4.21	4.03	1.02	4.07	3.95	1.11	3.93	3.87	1.20	3.78	3.78	1.30	3.49	3.49	1.42	3.24	3.24	1.56
360	16°C	21°C	3.59	2.85	1.00	3.46	2.77	1.08	3.33	2.70	1.17	3.19	2.62	1.27	2.93	2.44	1.37	2.70	2.30	1.51
		24°C	3.60	3.46	1.00	3.47	3.38	1.08	3.34	3.30	1.17	3.21	3.21	1.27	2.95	2.95	1.37	2.72	2.72	1.51
		27°C	3.64	3.64	1.00	3.52	3.52	1.08	3.40	3.40	1.17	3.28	3.28	1.27	3.03	3.03	1.38	2.82	2.82	1.52
		30°C	3.80	3.80	1.01	3.69	3.69	1.09	3.57	3.57	1.18	3.46	3.46	1.28	3.20	3.20	1.39	3.00	3.00	1.54
	19°C	24°C	3.96	2.69	1.01	3.81	2.63	1.10	3.67	2.56	1.19	3.52	2.49	1.29	3.24	2.32	1.40	2.99	2.19	1.54
		27°C	3.96	3.10	1.01	3.82	3.03	1.10	3.68	2.97	1.19	3.53	2.90	1.29	3.24	2.71	1.40	3.00	2.56	1.54
		30°C	3.98	3.83	1.01	3.84	3.75	1.10	3.71	3.66	1.19	3.56	3.56	1.29	3.28	3.28	1.40	3.04	3.04	1.54
		33°C	4.05	4.05	1.02	3.92	3.92	1.10	3.80	3.80	1.20	3.67	3.67	1.30	3.40	3.40	1.41	3.18	3.18	1.56
	22°C	27°C	4.35	2.64	1.03	4.19	2.58	1.12	4.04	2.51	1.21	3.88	2.44	1.31	3.56	2.28	1.42	3.30	2.15	1.57
		30°C	4.35	3.24	1.03	4.20	3.17	1.12	4.04	3.10	1.21	3.88	3.03	1.31	3.57	2.83	1.43	3.30	2.69	1.57
		33°C	4.36	3.79	1.03	4.21	3.72	1.12	4.05	3.64	1.21	3.89	3.57	1.32	3.58	3.35	1.43	3.32	3.18	1.57
		36°C	4.39	4.29	1.03	4.24	4.21	1.12	4.10	4.10	1.22	3.95	3.95	1.32	3.64	3.64	1.43	3.40	3.40	1.58
410	16°C	21°C	3.72	2.97	1.00	3.59	2.90	1.09	3.45	2.82	1.18	3.31	2.74	1.28	3.03	2.55	1.38	2.80	2.40	1.52
		24°C	3.74	3.61	1.01	3.61	3.53	1.09	3.47	3.44	1.18	3.33	3.33	1.28	3.06	3.06	1.39	2.83	2.83	1.53
		27°C	3.80	3.80	1.01	3.68	3.68	1.09	3.55	3.55	1.18	3.43	3.43	1.28	3.17	3.17	1.39	2.95	2.95	1.54
		30°C	3.99	3.99	1.02	3.88	3.88	1.10	3.76	3.76	1.20	3.63	3.63	1.30	3.36	3.36	1.41	3.14	3.14	1.56
	19°C	24°C	4.10	2.85	1.02	3.95	2.78	1.11	3.80	2.71	1.20	3.65	2.64	1.30	3.35	2.46	1.41	3.09	2.32	1.55
		27°C	4.11	3.30	1.02	3.96	3.22	1.11	3.81	3.15	1.20	3.66	3.07	1.30	3.36	2.87	1.41	3.11	2.72	1.55
		30°C	4.14	4.06	1.02	4.00	3.97	1.11	3.85	3.85	1.20	3.71	3.71	1.30	3.41	3.41	1.41	3.17	3.17	1.56
		33°C	4.23	4.23	1.03	4.11	4.11	1.12	3.98	3.98	1.21	3.85	3.85	1.31	3.57	3.57	1.43	3.34	3.34	1.58
	22°C	27°C	4.50	2.79	1.04	4.34	2.73	1.13	4.17	2.66	1.22	4.01	2.59	1.32	3.68	2.42	1.44	3.40	2.28	1.58
		30°C	4.51	3.44	1.04	4.35	3.37	1.13	4.18	3.30	1.22	4.01	3.22	1.33	3.69	3.02	1.44	3.41	2.86	1.58
		33°C	4.52	4.03	1.04	4.37	3.96	1.13	4.21	3.88	1.22	4.04	3.79	1.33	3.72	3.55	1.44	3.44	3.37	1.59
		36°C	4.56	4.55	1.04	4.42	4.42	1.13	4.27	4.27	1.23	4.11	4.11	1.33	3.80	3.80	1.45	3.55	3.55	1.60

Model: FFQN35CXV1- RYN35CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	2.038	2.038	2.306	2.306	2.396	2.396	3.381	3.381	3.918	3.918	4.186	4.186	4.455	4.455
17°C	1.984	1.984	2.286	2.286	2.336	2.336	3.377	3.377	3.830	3.830	4.094	4.094	4.357	4.357
19°C	1.931	1.931	2.267	2.267	2.276	2.276	3.372	3.372	3.742	3.742	4.001	4.001	4.260	4.260
21°C	1.877	1.877	2.214	2.214	2.216	2.216	3.305	3.305	3.654	3.654	3.908	3.908	4.162	4.162
23°C	1.824	1.824	2.218	2.218	2.156	2.156	3.174	3.174	3.566	3.566	3.815	3.815	4.064	4.064
25°C	1.770	1.770	2.042	2.042	2.096	2.096	3.043	3.043	3.478	3.478	3.722	3.722	3.966	3.966
27°C	1.717	1.717	1.956	1.956	2.036	2.036	2.912	2.912	3.391	3.391	3.630	3.630	3.869	3.869
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FFQN50CXV1- RYN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
340	16°C	21°C	4.84	3.33	1.28	4.67	3.24	1.39	4.49	3.15	1.50	4.31	3.06	1.63	3.96	2.85	1.77	3.66	2.68	1.95
		24°C	4.84	3.98	1.28	4.67	3.89	1.39	4.50	3.80	1.50	4.32	3.71	1.63	3.97	3.46	1.77	3.67	3.27	1.95
		27°C	4.88	4.52	1.29	4.72	4.41	1.39	4.55	4.31	1.51	4.38	4.20	1.64	4.04	3.91	1.77	3.76	3.67	1.96
		30°C	5.03	5.03	1.29	4.89	4.89	1.40	4.74	4.74	1.52	4.59	4.59	1.65	4.25	4.25	1.79	3.98	3.98	1.98
	19°C	24°C	5.34	3.11	1.30	5.15	3.03	1.41	4.96	2.95	1.53	4.76	2.86	1.66	4.38	2.67	1.80	4.05	2.51	1.98
		27°C	5.34	3.55	1.30	5.15	3.47	1.41	4.96	3.39	1.53	4.77	3.31	1.66	4.38	3.10	1.80	4.05	2.93	1.98
		30°C	5.35	4.39	1.30	5.16	4.29	1.41	4.98	4.20	1.53	4.79	4.10	1.66	4.41	3.83	1.80	4.09	3.62	1.99
		33°C	5.41	5.41	1.31	5.23	5.23	1.42	5.06	5.06	1.54	4.89	4.89	1.67	4.53	4.53	1.81	4.23	4.23	2.00
	22°C	27°C	5.87	3.04	1.33	5.67	2.97	1.44	5.46	2.89	1.56	5.25	2.81	1.69	4.82	2.62	1.84	4.47	2.47	2.02
		30°C	5.87	3.70	1.33	5.67	3.63	1.44	5.46	3.54	1.56	5.25	3.46	1.69	4.83	3.24	1.84	4.47	3.07	2.02
		33°C	5.87	4.33	1.33	5.67	4.24	1.44	5.46	4.16	1.56	5.25	4.07	1.69	4.83	3.82	1.84	4.48	3.63	2.02
		36°C	5.89	4.91	1.33	5.70	4.81	1.44	5.50	4.71	1.56	5.30	4.60	1.70	4.89	4.32	1.84	4.55	4.10	2.03
410	16°C	21°C	5.03	3.47	1.30	4.85	3.38	1.40	4.67	3.29	1.52	4.48	3.20	1.65	4.11	2.98	1.78	3.79	2.80	1.97
		24°C	5.05	4.21	1.30	4.87	4.11	1.40	4.68	4.01	1.52	4.50	3.91	1.65	4.13	3.65	1.79	3.82	3.45	1.97
		27°C	5.11	4.78	1.30	4.94	4.67	1.41	4.77	4.55	1.52	4.60	4.42	1.65	4.24	4.10	1.79	3.95	3.84	1.98
		30°C	5.32	5.32	1.31	5.17	5.17	1.42	5.01	5.01	1.54	4.85	4.85	1.67	4.49	4.49	1.81	4.20	4.20	2.00
	19°C	24°C	5.54	3.28	1.32	5.35	3.20	1.43	5.15	3.12	1.54	4.94	3.03	1.67	4.54	2.82	1.82	4.19	2.66	2.00
		27°C	5.55	3.78	1.32	5.36	3.70	1.43	5.16	3.61	1.54	4.95	3.53	1.68	4.55	3.30	1.82	4.20	3.12	2.00
		30°C	5.58	4.66	1.32	5.39	4.56	1.43	5.19	4.46	1.55	5.00	4.35	1.68	4.60	4.07	1.82	4.27	3.84	2.01
		33°C	5.67	5.67	1.32	5.50	5.50	1.43	5.33	5.33	1.56	5.15	5.15	1.69	4.77	4.77	1.83	4.46	4.46	2.03
	22°C	27°C	6.09	3.21	1.34	5.88	3.14	1.45	5.66	3.06	1.57	5.43	2.98	1.71	4.99	2.78	1.85	4.62	2.62	2.04
		30°C	6.10	3.94	1.34	5.88	3.86	1.45	5.67	3.78	1.58	5.44	3.69	1.71	5.00	3.45	1.85	4.63	3.28	2.04
		33°C	6.11	4.62	1.34	5.90	4.53	1.45	5.68	4.44	1.58	5.46	4.35	1.71	5.02	4.08	1.85	4.65	3.87	2.04
		36°C	6.15	5.22	1.34	5.95	5.13	1.46	5.74	5.02	1.58	5.53	4.90	1.71	5.11	4.59	1.86	4.76	4.33	2.05
450	16°C	21°C	5.22	3.62	1.31	5.03	3.53	1.41	4.83	3.44	1.53	4.63	3.34	1.66	4.25	3.11	1.80	3.92	2.93	1.98
		24°C	5.25	4.40	1.31	5.06	4.29	1.41	4.87	4.19	1.53	4.67	4.08	1.66	4.29	3.81	1.80	3.96	3.59	1.99
		27°C	5.33	5.04	1.31	5.16	4.91	1.42	4.98	4.77	1.54	4.80	4.63	1.67	4.44	4.29	1.81	4.14	4.00	2.00
		30°C	5.60	5.60	1.32	5.43	5.43	1.43	5.27	5.27	1.55	5.09	5.09	1.69	4.72	4.72	1.83	4.40	4.40	2.02
	19°C	24°C	5.74	3.47	1.33	5.54	3.39	1.44	5.33	3.30	1.56	5.11	3.21	1.69	4.69	2.99	1.83	4.33	2.82	2.02
		27°C	5.76	4.02	1.33	5.55	3.93	1.44	5.35	3.83	1.56	5.13	3.74	1.69	4.71	3.50	1.83	4.35	3.31	2.02
		30°C	5.81	4.94	1.33	5.60	4.84	1.44	5.40	4.73	1.56	5.20	4.61	1.69	4.78	4.30	1.84	4.44	4.06	2.03
		33°C	5.93	5.93	1.34	5.76	5.76	1.45	5.58	5.58	1.57	5.40	5.40	1.71	5.00	5.00	1.86	4.68	4.68	2.05
	22°C	27°C	6.30	3.40	1.35	6.08	3.32	1.47	5.85	3.24	1.59	5.62	3.15	1.72	5.16	2.94	1.87	4.77	2.78	2.06
		30°C	6.32	4.19	1.35	6.09	4.11	1.47	5.86	4.02	1.59	5.63	3.93	1.72	5.17	3.68	1.87	4.78	3.49	2.06
		33°C	6.34	4.91	1.35	6.12	4.82	1.47	5.89	4.72	1.59	5.66	4.62	1.73	5.21	4.33	1.87	4.83	4.11	2.06
		36°C	6.39	5.54	1.36	6.19	5.44	1.47	5.98	5.32	1.60	5.77	5.19	1.73	5.33	4.84	1.88	4.97	4.56	2.08

Model: FFQN50CXV1- RYN50CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.101	3.101	3.509	3.509	3.646	3.646	5.144	5.144	5.962	5.962	6.371	6.371	6.779	6.779
17°C	3.019	3.019	3.395	3.395	3.566	3.566	5.138	5.138	5.889	5.889	6.299	6.299	6.709	6.709
19°C	2.938	2.938	3.281	3.281	3.486	3.486	5.132	5.132	5.817	5.817	6.228	6.228	6.639	6.639
21°C	2.857	2.857	3.196	3.196	3.407	3.407	5.067	5.067	5.745	5.745	6.157	6.157	6.570	6.570
23°C	2.775	2.775	3.140	3.140	3.327	3.327	4.943	4.943	5.672	5.672	6.086	6.086	6.500	6.500
25°C	2.694	2.694	3.085	3.085	3.248	3.248	4.819	4.819	5.600	5.600	6.015	6.015	6.430	6.430
27°C	2.613	2.613	3.029	3.029	3.168	3.168	4.695	4.695	5.527	5.527	5.944	5.944	6.360	6.360
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FFQN50CXV1- RYN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
340	16°C	21°C	4.98	3.42	1.31	4.80	3.34	1.42	4.62	3.25	1.53	4.44	3.15	1.66	4.08	2.93	1.80	3.76	2.76	1.99
		24°C	4.99	4.10	1.31	4.81	4.01	1.42	4.63	3.91	1.53	4.44	3.82	1.66	4.08	3.56	1.81	3.78	3.36	1.99
		27°C	5.02	4.65	1.31	4.86	4.54	1.42	4.69	4.44	1.54	4.51	4.32	1.67	4.16	4.02	1.81	3.87	3.78	2.00
		30°C	5.18	5.18	1.32	5.03	5.03	1.43	4.88	4.88	1.55	4.72	4.72	1.68	4.38	4.38	1.83	4.09	4.09	2.02
	19°C	24°C	5.49	3.20	1.33	5.30	3.12	1.44	5.10	3.03	1.56	4.90	2.95	1.69	4.51	2.75	1.84	4.16	2.59	2.02
		27°C	5.49	3.66	1.33	5.30	3.58	1.44	5.11	3.49	1.56	4.91	3.41	1.69	4.51	3.19	1.84	4.17	3.02	2.02
		30°C	5.50	4.51	1.33	5.31	4.42	1.44	5.13	4.32	1.56	4.93	4.22	1.69	4.54	3.94	1.84	4.21	3.73	2.03
		33°C	5.57	5.57	1.33	5.39	5.39	1.45	5.21	5.21	1.57	5.03	5.03	1.70	4.66	4.66	1.85	4.36	4.36	2.04
	22°C	27°C	6.04	3.13	1.35	5.83	3.05	1.47	5.62	2.98	1.59	5.40	2.90	1.73	4.97	2.70	1.87	4.60	2.54	2.06
		30°C	6.04	3.81	1.35	5.83	3.73	1.47	5.62	3.65	1.59	5.40	3.56	1.73	4.97	3.33	1.87	4.60	3.16	2.06
		33°C	6.05	4.45	1.35	5.84	4.37	1.47	5.62	4.28	1.59	5.41	4.19	1.73	4.97	3.94	1.87	4.61	3.74	2.06
		36°C	6.07	5.05	1.36	5.87	4.95	1.47	5.66	4.85	1.59	5.46	4.74	1.73	5.03	4.44	1.88	4.68	4.22	2.07
410	16°C	21°C	5.18	3.57	1.32	4.99	3.48	1.43	4.80	3.39	1.55	4.61	3.29	1.68	4.23	3.07	1.82	3.90	2.88	2.01
		24°C	5.20	4.34	1.32	5.01	4.23	1.43	4.82	4.13	1.55	4.63	4.03	1.68	4.25	3.76	1.82	3.93	3.55	2.01
		27°C	5.26	4.92	1.33	5.08	4.81	1.43	4.91	4.69	1.55	4.73	4.55	1.69	4.37	4.22	1.83	4.07	3.95	2.02
		30°C	5.48	5.48	1.33	5.32	5.32	1.45	5.16	5.16	1.57	4.99	4.99	1.70	4.62	4.62	1.85	4.32	4.32	2.04
	19°C	24°C	5.71	3.38	1.34	5.50	3.29	1.45	5.30	3.21	1.58	5.08	3.12	1.71	4.67	2.91	1.85	4.31	2.74	2.04
		27°C	5.72	3.89	1.34	5.51	3.81	1.45	5.31	3.72	1.58	5.09	3.63	1.71	4.68	3.40	1.85	4.33	3.21	2.04
		30°C	5.74	4.80	1.35	5.54	4.70	1.46	5.35	4.59	1.58	5.14	4.48	1.71	4.73	4.19	1.86	4.39	3.96	2.05
		33°C	5.84	5.84	1.35	5.66	5.66	1.46	5.48	5.48	1.59	5.30	5.30	1.72	4.91	4.91	1.87	4.59	4.59	2.07
	22°C	27°C	6.27	3.31	1.37	6.05	3.23	1.48	5.82	3.15	1.61	5.59	3.06	1.74	5.14	2.86	1.89	4.75	2.70	2.08
		30°C	6.28	4.06	1.37	6.06	3.98	1.48	5.83	3.89	1.61	5.60	3.80	1.74	5.15	3.56	1.89	4.76	3.37	2.08
		33°C	6.29	4.76	1.37	6.07	4.67	1.48	5.85	4.57	1.61	5.62	4.47	1.74	5.17	4.20	1.89	4.79	3.98	2.08
		36°C	6.33	5.38	1.37	6.12	5.28	1.49	5.91	5.17	1.61	5.70	5.05	1.75	5.25	4.72	1.90	4.90	4.45	2.09
450	16°C	21°C	5.37	3.73	1.33	5.17	3.63	1.44	4.98	3.54	1.56	4.77	3.44	1.69	4.37	3.20	1.83	4.03	3.01	2.02
		24°C	5.40	4.53	1.33	5.20	4.42	1.44	5.01	4.31	1.56	4.81	4.20	1.69	4.41	3.92	1.84	4.08	3.70	2.03
		27°C	5.49	5.19	1.34	5.31	5.06	1.45	5.13	4.91	1.57	4.94	4.76	1.70	4.57	4.41	1.85	4.26	4.12	2.04
		30°C	5.76	5.76	1.35	5.59	5.59	1.46	5.42	5.42	1.59	5.24	5.24	1.72	4.85	4.85	1.87	4.53	4.53	2.06
	19°C	24°C	5.91	3.57	1.35	5.70	3.49	1.47	5.48	3.40	1.59	5.26	3.30	1.72	4.83	3.08	1.87	4.46	2.91	2.06
		27°C	5.93	4.14	1.36	5.72	4.04	1.47	5.50	3.95	1.59	5.28	3.85	1.72	4.85	3.60	1.87	4.48	3.41	2.06
		30°C	5.98	5.09	1.36	5.77	4.98	1.47	5.56	4.86	1.59	5.35	4.74	1.73	4.92	4.43	1.88	4.57	4.18	2.07
		33°C	6.11	6.11	1.36	5.93	5.93	1.48	5.75	5.75	1.60	5.56	5.56	1.74	5.15	5.15	1.89	4.81	4.81	2.09
	22°C	27°C	6.49	3.50	1.38	6.26	3.42	1.49	6.02	3.33	1.62	5.78	3.25	1.76	5.31	3.03	1.90	4.91	2.86	2.10
		30°C	6.50	4.31	1.38	6.27	4.23	1.50	6.03	4.14	1.62	5.79	4.04	1.76	5.32	3.79	1.91	4.92	3.59	2.10
		33°C	6.52	5.05	1.38	6.30	4.96	1.50	6.07	4.86	1.62	5.83	4.75	1.76	5.36	4.45	1.91	4.97	4.23	2.10
		36°C	6.58	5.70	1.39	6.38	5.60	1.50	6.16	5.48	1.63	5.93	5.34	1.77	5.48	4.98	1.92	5.11	4.69	2.12

Model: FFQN50CXV1- RYN50CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.278	3.278	3.710	3.710	3.854	3.854	5.438	5.438	6.302	6.302	6.735	6.735	7.167	7.167
17°C	3.192	3.192	3.680	3.680	3.770	3.770	5.432	5.432	6.228	6.228	6.662	6.662	7.096	7.096
19°C	3.106	3.106	3.649	3.649	3.686	3.686	5.425	5.425	6.154	6.154	6.589	6.589	7.025	7.025
21°C	3.020	3.020	3.573	3.573	3.603	3.603	5.358	5.358	6.080	6.080	6.517	6.517	6.954	6.954
23°C	2.934	2.934	3.450	3.450	3.519	3.519	5.229	5.229	6.005	6.005	6.444	6.444	6.883	6.883
25°C	2.848	2.848	3.327	3.327	3.435	3.435	5.101	5.101	5.931	5.931	6.371	6.371	6.812	6.812
27°C	2.762	2.762	3.204	3.204	3.352	3.352	4.973	4.973	5.857	5.857	6.299	6.299	6.741	6.741
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN50EXV1 - RYN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
430	16°C	21°C	5.05	3.81	1.32	4.87	3.71	1.43	4.69	3.61	1.55	4.50	3.51	1.68	4.14	3.27	1.82	3.82	3.07	2.01
		24°C	5.06	4.57	1.32	4.88	4.46	1.43	4.70	4.36	1.55	4.51	4.25	1.68	4.14	3.97	1.82	3.83	3.74	2.01
		27°C	5.10	5.10	1.32	4.93	4.93	1.43	4.76	4.76	1.55	4.58	4.58	1.68	4.22	4.22	1.83	3.93	3.93	2.02
		30°C	5.26	5.26	1.33	5.11	5.11	1.44	4.95	4.95	1.56	4.79	4.79	1.70	4.44	4.44	1.84	4.16	4.16	2.04
	19°C	24°C	5.57	3.56	1.34	5.38	3.47	1.45	5.18	3.38	1.58	4.98	3.28	1.71	4.57	3.06	1.85	4.23	2.88	2.04
		27°C	5.58	4.07	1.34	5.38	3.98	1.45	5.18	3.89	1.58	4.98	3.80	1.71	4.58	3.55	1.85	4.23	3.36	2.04
		30°C	5.59	5.03	1.34	5.39	4.92	1.45	5.20	4.81	1.58	5.01	4.69	1.71	4.61	4.39	1.86	4.28	4.15	2.05
		33°C	5.65	5.65	1.35	5.47	5.47	1.46	5.29	5.29	1.58	5.11	5.11	1.72	4.73	4.73	1.86	4.42	4.42	2.06
	22°C	27°C	6.13	3.48	1.37	5.92	3.40	1.48	5.70	3.32	1.61	5.48	3.22	1.74	5.04	3.00	1.89	4.67	2.83	2.08
		30°C	6.13	4.25	1.37	5.92	4.16	1.48	5.70	4.06	1.61	5.48	3.97	1.74	5.04	3.71	1.89	4.67	3.52	2.08
		33°C	6.14	4.96	1.37	5.92	4.87	1.48	5.71	4.77	1.61	5.49	4.67	1.74	5.05	4.38	1.89	4.68	4.16	2.08
		36°C	6.16	5.62	1.37	5.95	5.51	1.48	5.75	5.40	1.61	5.54	5.28	1.75	5.11	4.95	1.89	4.75	4.69	2.09
530	16°C	21°C	5.26	3.98	1.33	5.07	3.88	1.44	4.88	3.77	1.56	4.68	3.67	1.69	4.29	3.41	1.84	3.96	3.21	2.03
		24°C	5.27	4.83	1.33	5.08	4.72	1.44	4.89	4.60	1.56	4.70	4.49	1.70	4.31	4.19	1.84	3.99	3.95	2.03
		27°C	5.34	5.34	1.34	5.16	5.16	1.45	4.98	4.98	1.57	4.80	4.80	1.70	4.43	4.43	1.85	4.13	4.13	2.04
		30°C	5.56	5.56	1.35	5.40	5.40	1.46	5.23	5.23	1.58	5.06	5.06	1.72	4.69	4.69	1.87	4.39	4.39	2.06
	19°C	24°C	5.79	3.76	1.36	5.59	3.67	1.47	5.38	3.57	1.59	5.16	3.47	1.72	4.74	3.24	1.87	4.38	3.05	2.06
		27°C	5.80	4.33	1.36	5.60	4.24	1.47	5.39	4.14	1.59	5.17	4.04	1.72	4.75	3.78	1.87	4.39	3.58	2.06
		30°C	5.83	5.35	1.36	5.63	5.23	1.47	5.43	5.11	1.59	5.22	4.99	1.73	4.81	4.67	1.87	4.46	4.41	2.07
		33°C	5.93	5.93	1.36	5.75	5.75	1.48	5.56	5.56	1.60	5.38	5.38	1.74	4.98	4.98	1.89	4.66	4.66	2.09
	22°C	27°C	6.37	3.68	1.38	6.14	3.60	1.50	5.91	3.51	1.62	5.68	3.41	1.76	5.22	3.18	1.91	4.83	3.00	2.10
		30°C	6.37	4.52	1.38	6.15	4.43	1.50	5.92	4.33	1.62	5.68	4.23	1.76	5.22	3.96	1.91	4.83	3.76	2.10
		33°C	6.38	5.30	1.38	6.16	5.20	1.50	5.94	5.09	1.62	5.70	4.98	1.76	5.25	4.67	1.91	4.86	4.44	2.10
		36°C	6.42	5.99	1.38	6.22	5.88	1.50	6.00	5.75	1.63	5.78	5.62	1.77	5.33	5.26	1.92	4.97	4.96	2.11
600	16°C	21°C	5.45	4.15	1.34	5.25	4.05	1.45	5.05	3.94	1.57	4.84	3.83	1.71	4.44	3.57	1.85	4.09	3.36	2.04
		24°C	5.48	5.04	1.35	5.28	4.92	1.46	5.08	4.80	1.58	4.88	4.68	1.71	4.48	4.36	1.85	4.14	4.12	2.04
		27°C	5.57	5.57	1.35	5.39	5.39	1.46	5.21	5.21	1.58	5.02	5.02	1.72	4.64	4.64	1.87	4.32	4.32	2.06
		30°C	5.85	5.85	1.36	5.68	5.68	1.48	5.50	5.50	1.60	5.32	5.32	1.74	4.93	4.93	1.89	4.60	4.60	2.08
	19°C	24°C	6.00	3.98	1.37	5.78	3.88	1.48	5.57	3.78	1.60	5.34	3.68	1.74	4.90	3.43	1.89	4.52	3.24	2.08
		27°C	6.02	4.61	1.37	5.80	4.50	1.48	5.59	4.40	1.60	5.36	4.29	1.74	4.92	4.01	1.89	4.55	3.79	2.08
		30°C	6.07	5.67	1.37	5.85	5.55	1.48	5.64	5.42	1.61	5.43	5.28	1.74	5.00	4.93	1.89	4.64	4.64	2.09
		33°C	6.20	6.20	1.38	6.02	6.02	1.49	5.83	5.83	1.62	5.64	5.64	1.76	5.23	5.23	1.91	4.89	4.89	2.11
	22°C	27°C	6.59	3.89	1.39	6.35	3.81	1.51	6.11	3.71	1.64	5.87	3.62	1.77	5.39	3.37	1.92	4.98	3.19	2.12
		30°C	6.60	4.80	1.39	6.36	4.71	1.51	6.13	4.61	1.64	5.88	4.50	1.77	5.40	4.22	1.92	5.00	4.00	2.12
		33°C	6.62	5.63	1.39	6.39	5.53	1.51	6.16	5.41	1.64	5.92	5.29	1.78	5.44	4.96	1.93	5.04	4.71	2.12
		36°C	6.68	6.35	1.40	6.47	6.24	1.52	6.25	6.10	1.64	6.02	5.95	1.78	5.57	5.55	1.94	5.19	5.19	2.14

Model: FCQN50EXV1 - RYN50CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.075	3.075	3.481	3.481	3.616	3.616	5.103	5.103	5.913	5.913	6.319	6.319	6.724	6.724
17°C	2.995	2.995	3.475	3.475	3.538	3.538	5.096	5.096	5.847	5.847	6.255	6.255	6.662	6.662
19°C	2.914	2.914	3.470	3.470	3.460	3.460	5.090	5.090	5.781	5.781	6.191	6.191	6.601	6.601
21°C	2.834	2.834	3.402	3.402	3.382	3.382	5.029	5.029	5.715	5.715	6.127	6.127	6.539	6.539
23°C	2.753	2.753	3.271	3.271	3.305	3.305	4.913	4.913	5.649	5.649	6.063	6.063	6.477	6.477
25°C	2.672	2.672	3.140	3.140	3.227	3.227	4.797	4.797	5.583	5.583	5.999	5.999	6.415	6.415
27°C	2.592	2.592	3.010	3.010	3.149	3.149	4.682	4.682	5.518	5.518	5.935	5.935	6.353	6.353
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN60EXV1 - RYN60CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
530	16°C	21°C	6.14	4.34	1.47	5.92	4.23	1.59	5.70	4.11	1.73	5.47	4.00	1.87	5.03	3.72	2.03	4.64	3.50	2.24
		24°C	6.15	5.20	1.47	5.93	5.08	1.59	5.71	4.96	1.73	5.48	4.84	1.87	5.04	4.52	2.03	4.66	4.26	2.24
		27°C	6.20	5.89	1.48	5.99	5.76	1.60	5.78	5.62	1.73	5.56	5.48	1.88	5.13	5.10	2.04	4.77	4.77	2.25
		30°C	6.39	6.39	1.48	6.20	6.20	1.61	6.01	6.01	1.74	5.82	5.82	1.89	5.40	5.40	2.06	5.05	5.05	2.27
	19°C	24°C	6.77	4.05	1.50	6.53	3.95	1.62	6.29	3.85	1.76	6.04	3.74	1.90	5.56	3.48	2.07	5.14	3.28	2.28
		27°C	6.78	4.64	1.50	6.54	4.53	1.62	6.30	4.43	1.76	6.05	4.32	1.91	5.56	4.04	2.07	5.14	3.83	2.28
		30°C	6.79	5.72	1.50	6.55	5.60	1.62	6.32	5.48	1.76	6.08	5.34	1.91	5.60	5.00	2.07	5.19	4.73	2.28
		33°C	6.87	6.87	1.50	6.64	6.64	1.63	6.43	6.43	1.76	6.21	6.21	1.91	5.74	5.74	2.08	5.37	5.37	2.30
	22°C	27°C	7.45	3.97	1.52	7.19	3.87	1.65	6.93	3.77	1.79	6.66	3.67	1.94	6.12	3.42	2.11	5.67	3.22	2.32
		30°C	7.45	4.83	1.52	7.19	4.73	1.65	6.93	4.62	1.79	6.66	4.51	1.94	6.12	4.23	2.11	5.67	4.01	2.32
		33°C	7.46	5.65	1.52	7.20	5.54	1.65	6.94	5.43	1.79	6.66	5.32	1.94	6.13	4.99	2.11	5.68	4.74	2.32
		36°C	7.48	6.40	1.53	7.23	6.27	1.65	6.98	6.14	1.79	6.73	6.01	1.95	6.20	5.63	2.11	5.77	5.34	2.33
600	16°C	21°C	6.39	4.53	1.49	6.16	4.41	1.61	5.92	4.29	1.74	5.68	4.17	1.89	5.21	3.88	2.05	4.81	3.66	2.26
		24°C	6.41	5.50	1.49	6.18	5.37	1.61	5.94	5.24	1.74	5.70	5.11	1.89	5.24	4.76	2.05	4.84	4.50	2.26
		27°C	6.48	6.24	1.49	6.27	6.10	1.61	6.05	5.94	1.75	5.83	5.76	1.90	5.38	5.35	2.06	5.02	5.01	2.27
		30°C	6.75	6.75	1.50	6.56	6.56	1.63	6.36	6.36	1.76	6.15	6.15	1.92	5.70	5.70	2.08	5.33	5.33	2.30
	19°C	24°C	7.04	4.28	1.51	6.79	4.18	1.64	6.53	4.07	1.77	6.27	3.95	1.92	5.76	3.69	2.08	5.32	3.47	2.30
		27°C	7.05	4.93	1.51	6.80	4.82	1.64	6.54	4.71	1.77	6.28	4.60	1.92	5.77	4.30	2.09	5.33	4.07	2.30
		30°C	7.08	6.09	1.51	6.84	5.95	1.64	6.59	5.82	1.78	6.34	5.68	1.93	5.84	5.31	2.09	5.41	5.02	2.30
		33°C	7.20	7.20	1.52	6.98	6.98	1.65	6.76	6.76	1.79	6.53	6.53	1.94	6.05	6.05	2.11	5.66	5.66	2.32
	22°C	27°C	7.73	4.19	1.54	7.46	4.09	1.67	7.18	3.99	1.81	6.90	3.88	1.96	6.34	3.62	2.13	5.86	3.42	2.34
		30°C	7.74	5.15	1.54	7.47	5.04	1.67	7.19	4.93	1.81	6.90	4.81	1.96	6.35	4.51	2.13	5.87	4.28	2.34
		33°C	7.75	6.03	1.54	7.48	5.91	1.67	7.21	5.79	1.81	6.93	5.67	1.96	6.37	5.32	2.13	5.91	5.05	2.35
		36°C	7.80	6.82	1.54	7.55	6.69	1.67	7.29	6.55	1.81	7.02	6.40	1.97	6.48	5.98	2.14	6.04	5.65	2.36
680	16°C	21°C	6.62	4.72	1.50	6.38	4.60	1.62	6.14	4.48	1.76	5.88	4.36	1.90	5.39	4.06	2.06	4.97	3.82	2.28
		24°C	6.66	5.74	1.50	6.42	5.60	1.62	6.17	5.47	1.76	5.92	5.32	1.91	5.44	4.97	2.07	5.03	4.68	2.28
		27°C	6.76	6.58	1.51	6.54	6.41	1.63	6.32	6.23	1.77	6.10	6.04	1.92	5.63	5.59	2.08	5.25	5.22	2.30
		30°C	7.10	7.10	1.52	6.90	6.90	1.65	6.68	6.68	1.78	6.46	6.46	1.94	5.98	5.98	2.10	5.59	5.59	2.32
	19°C	24°C	7.29	4.53	1.52	7.03	4.42	1.65	6.76	4.31	1.79	6.48	4.19	1.94	5.95	3.91	2.10	5.49	3.68	2.32
		27°C	7.31	5.24	1.53	7.05	5.12	1.65	6.78	5.00	1.79	6.51	4.88	1.94	5.98	4.56	2.10	5.52	4.32	2.32
		30°C	7.37	6.45	1.53	7.11	6.31	1.65	6.86	6.17	1.79	6.59	6.01	1.94	6.07	5.61	2.11	5.64	5.29	2.33
		33°C	7.53	7.53	1.54	7.31	7.31	1.66	7.09	7.09	1.81	6.85	6.85	1.96	6.35	6.35	2.13	5.94	5.94	2.35
	22°C	27°C	8.00	4.43	1.55	7.71	4.34	1.68	7.42	4.23	1.82	7.13	4.12	1.98	6.55	3.84	2.14	6.05	3.63	2.36
		30°C	8.02	5.46	1.55	7.73	5.36	1.68	7.44	5.24	1.82	7.14	5.12	1.98	6.56	4.80	2.15	6.07	4.55	2.36
		33°C	8.04	6.40	1.56	7.77	6.29	1.69	7.48	6.16	1.83	7.19	6.02	1.98	6.61	5.65	2.15	6.12	5.36	2.37
		36°C	8.11	7.23	1.56	7.86	7.10	1.69	7.59	6.94	1.83	7.32	6.77	1.99	6.76	6.32	2.16	6.31	5.95	2.38

Model: FCQN60EXV1 - RYN60CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.497	3.497	3.958	3.958	4.112	4.112	5.802	5.802	6.724	6.724	7.185	7.185	7.646	7.646
17°C	3.405	3.405	4.080	4.080	4.016	4.016	5.795	5.795	6.613	6.613	7.071	7.071	7.529	7.529
19°C	3.314	3.314	4.201	4.201	3.921	3.921	5.788	5.788	6.501	6.501	6.956	6.956	7.412	7.412
21°C	3.222	3.222	4.138	4.138	3.825	3.825	5.697	5.697	6.389	6.389	6.842	6.842	7.294	7.294
23°C	3.130	3.130	3.889	3.889	3.730	3.730	5.520	5.520	6.278	6.278	6.727	6.727	7.177	7.177
25°C	3.039	3.039	3.640	3.640	3.634	3.634	5.343	5.343	6.166	6.166	6.613	6.613	7.060	7.060
27°C	2.947	2.947	3.391	3.391	3.539	3.539	5.167	5.167	6.055	6.055	6.498	6.498	6.942	6.942
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN71EXV1 - RQ71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
620	16°C	21°C	7.46	5.49	2.12	7.19	5.34	2.29	6.93	5.20	2.48	6.65	5.05	2.69	6.10	4.70	2.92	5.64	4.42	3.22
		24°C	7.47	6.57	2.12	7.20	6.42	2.29	6.94	6.27	2.48	6.66	6.11	2.69	6.12	5.71	2.92	5.66	5.39	3.22
		27°C	7.53	7.45	2.12	7.28	7.28	2.30	7.02	7.02	2.49	6.76	6.76	2.70	6.23	6.23	2.93	5.80	5.80	3.23
		30°C	7.76	7.76	2.13	7.54	7.54	2.31	7.31	7.31	2.51	7.07	7.07	2.72	6.55	6.55	2.96	6.13	6.13	3.26
	19°C	24°C	8.23	5.12	2.15	7.94	4.99	2.33	7.65	4.86	2.53	7.34	4.72	2.74	6.75	4.40	2.97	6.24	4.14	3.28
		27°C	8.23	5.86	2.15	7.94	5.73	2.33	7.65	5.60	2.53	7.35	5.46	2.74	6.76	5.11	2.97	6.25	4.84	3.28
		30°C	8.24	7.23	2.15	7.96	7.08	2.33	7.68	6.92	2.53	7.39	6.76	2.74	6.80	6.32	2.98	6.31	5.98	3.28
		33°C	8.34	8.34	2.16	8.07	8.07	2.34	7.81	7.81	2.54	7.54	7.54	2.75	6.98	6.98	2.99	6.52	6.52	3.30
	22°C	27°C	9.05	5.01	2.19	8.74	4.89	2.38	8.42	4.77	2.57	8.09	4.64	2.79	7.44	4.32	3.03	6.89	4.08	3.34
		30°C	9.05	6.11	2.19	8.74	5.98	2.38	8.42	5.84	2.58	8.09	5.71	2.79	7.44	5.34	3.03	6.89	5.06	3.34
		33°C	9.06	7.14	2.19	8.74	7.00	2.38	8.43	6.86	2.58	8.10	6.72	2.79	7.45	6.31	3.03	6.91	5.99	3.34
		36°C	9.09	8.09	2.19	8.79	7.93	2.38	8.48	7.77	2.58	8.17	7.59	2.80	7.54	7.12	3.04	7.01	6.75	3.35
725	16°C	21°C	7.76	5.72	2.14	7.48	5.58	2.31	7.20	5.43	2.51	6.90	5.27	2.72	6.33	4.91	2.95	5.84	4.62	3.25
		24°C	7.78	6.95	2.14	7.50	6.78	2.31	7.22	6.62	2.51	6.93	6.46	2.72	6.37	6.02	2.95	5.89	5.68	3.25
		27°C	7.88	7.88	2.15	7.61	7.61	2.32	7.35	7.35	2.51	7.09	7.09	2.73	6.54	6.54	2.96	6.09	6.09	3.27
		30°C	8.21	8.21	2.16	7.97	7.97	2.34	7.72	7.72	2.54	7.47	7.47	2.75	6.92	6.92	2.99	6.47	6.47	3.30
	19°C	24°C	8.55	5.41	2.17	8.24	5.28	2.35	7.93	5.14	2.55	7.62	5.00	2.76	6.99	4.66	3.00	6.46	4.39	3.30
		27°C	8.56	6.24	2.17	8.26	6.10	2.35	7.95	5.96	2.55	7.63	5.82	2.77	7.01	5.44	3.00	6.48	5.15	3.31
		30°C	8.60	7.69	2.18	8.31	7.53	2.36	8.01	7.36	2.55	7.70	7.18	2.77	7.09	6.71	3.01	6.58	6.34	3.31
		33°C	8.75	8.75	2.18	8.48	8.48	2.37	8.21	8.21	2.57	7.94	7.94	2.79	7.35	7.35	3.03	6.87	6.87	3.34
	22°C	27°C	9.39	5.30	2.21	9.06	5.18	2.40	8.73	5.05	2.60	8.38	4.91	2.82	7.70	4.58	3.06	7.12	4.32	3.37
		30°C	9.40	6.50	2.21	9.07	6.37	2.40	8.73	6.23	2.60	8.39	6.08	2.82	7.71	5.70	3.06	7.13	5.41	3.37
		33°C	9.42	7.62	2.22	9.09	7.48	2.40	8.76	7.32	2.60	8.42	7.17	2.82	7.74	6.72	3.06	7.18	6.38	3.37
		36°C	9.48	8.62	2.22	9.17	8.45	2.41	8.85	8.28	2.61	8.53	8.09	2.83	7.87	7.57	3.07	7.34	7.14	3.39
860	16°C	21°C	8.05	5.97	2.16	7.75	5.82	2.33	7.45	5.67	2.53	7.15	5.51	2.74	6.55	5.13	2.97	6.04	4.83	3.27
		24°C	8.09	7.26	2.16	7.80	7.09	2.33	7.50	6.91	2.53	7.20	6.73	2.74	6.61	6.28	2.97	6.11	5.92	3.28
		27°C	8.22	8.22	2.17	7.95	7.95	2.34	7.68	7.68	2.54	7.41	7.41	2.76	6.84	6.84	2.99	6.38	6.38	3.30
		30°C	8.63	8.63	2.18	8.38	8.38	2.37	8.12	8.12	2.57	7.85	7.85	2.79	7.27	7.27	3.03	6.79	6.79	3.34
	19°C	24°C	8.86	5.73	2.19	8.54	5.59	2.37	8.21	5.44	2.57	7.88	5.30	2.79	7.23	4.94	3.02	6.67	4.66	3.33
		27°C	8.88	6.63	2.19	8.56	6.48	2.37	8.24	6.32	2.57	7.91	6.17	2.79	7.26	5.77	3.03	6.71	5.46	3.33
		30°C	8.96	8.16	2.20	8.64	7.98	2.38	8.33	7.80	2.58	8.01	7.60	2.80	7.38	7.10	3.03	6.85	6.69	3.35
		33°C	9.15	9.15	2.21	8.88	8.88	2.39	8.61	8.61	2.60	8.33	8.33	2.82	7.71	7.71	3.06	7.21	7.21	3.38
	22°C	27°C	9.72	5.60	2.23	9.37	5.48	2.42	9.02	5.34	2.62	8.66	5.20	2.84	7.95	4.86	3.08	7.35	4.58	3.39
		30°C	9.74	6.91	2.23	9.39	6.78	2.42	9.04	6.63	2.62	8.68	6.48	2.84	7.97	6.07	3.08	7.37	5.75	3.40
		33°C	9.77	8.10	2.24	9.44	7.96	2.42	9.09	7.79	2.63	8.73	7.62	2.85	8.03	7.14	3.09	7.44	6.77	3.40
		36°C	9.86	9.14	2.24	9.55	8.98	2.43	9.22	8.78	2.64	8.89	8.56	2.86	8.21	7.99	3.11	7.66	7.52	3.43

Model: FCQN71EXV1 - RQ71CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.889	4.889	5.534	5.534	5.749	5.749	8.112	8.112	9.401	9.401	10.046	10.046	10.690	10.690
17°C	4.761	4.761	5.326	5.326	5.631	5.631	8.102	8.102	9.328	9.328	9.981	9.981	10.633	10.633
19°C	4.633	4.633	5.119	5.119	5.513	5.513	8.093	8.093	9.255	9.255	9.915	9.915	10.576	10.576
21°C	4.505	4.505	4.986	4.986	5.396	5.396	8.015	8.015	9.182	9.182	9.850	9.850	10.518	10.518
23°C	4.377	4.377	4.928	4.928	5.278	5.278	7.870	7.870	9.109	9.109	9.785	9.785	10.461	10.461
25°C	4.248	4.248	4.870	4.870	5.160	5.160	7.725	7.725	9.036	9.036	9.720	9.720	10.404	10.404
27°C	4.120	4.120	4.812	4.812	5.043	5.043	7.579	7.579	8.963	8.963	9.655	9.655	10.347	10.347
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN100EXV1- RQ90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
740	16°C	21°C	8.07	6.17	2.14	7.78	6.00	2.32	7.50	5.84	2.51	7.19	5.68	2.72	6.61	5.28	2.95	6.10	4.97	3.25
		24°C	8.08	7.38	2.14	7.79	7.21	2.32	7.51	7.05	2.51	7.21	6.87	2.72	6.62	6.42	2.95	6.12	6.05	3.26
		27°C	8.14	8.14	2.15	7.87	7.87	2.32	7.60	7.60	2.52	7.31	7.31	2.73	6.75	6.75	2.96	6.28	6.28	3.27
		30°C	8.40	8.40	2.16	8.15	8.15	2.34	7.91	7.91	2.53	7.65	7.65	2.75	7.09	7.09	2.99	6.64	6.64	3.30
	19°C	24°C	8.90	5.76	2.18	8.59	5.61	2.36	8.27	5.46	2.55	7.95	5.31	2.77	7.30	4.94	3.00	6.75	4.65	3.31
		27°C	8.91	6.59	2.18	8.59	6.44	2.36	8.28	6.29	2.55	7.95	6.14	2.77	7.31	5.74	3.00	6.76	5.44	3.31
		30°C	8.92	8.13	2.18	8.61	7.95	2.36	8.31	7.78	2.56	7.99	7.59	2.77	7.36	7.10	3.01	6.83	6.72	3.32
		33°C	9.03	9.03	2.18	8.73	8.73	2.36	8.45	8.45	2.56	8.16	8.16	2.78	7.55	7.55	3.02	7.06	7.06	3.34
	22°C	27°C	9.79	5.63	2.22	9.45	5.50	2.40	9.11	5.36	2.60	8.75	5.21	2.82	8.05	4.86	3.06	7.45	4.58	3.37
		30°C	9.80	6.87	2.22	9.46	6.72	2.40	9.11	6.57	2.60	8.76	6.41	2.82	8.05	6.00	3.06	7.45	5.69	3.37
		33°C	9.80	8.02	2.22	9.46	7.87	2.40	9.12	7.71	2.60	8.76	7.55	2.82	8.06	7.09	3.06	7.47	6.73	3.38
		36°C	9.83	9.09	2.22	9.51	8.91	2.40	9.18	8.73	2.61	8.84	8.53	2.83	8.16	8.00	3.07	7.58	7.58	3.39
860	16°C	21°C	8.40	6.43	2.16	8.09	6.26	2.34	7.79	6.10	2.53	7.47	5.93	2.75	6.85	5.52	2.98	6.32	5.19	3.28
		24°C	8.42	7.81	2.16	8.12	7.62	2.34	7.82	7.44	2.53	7.50	7.25	2.75	6.89	6.77	2.98	6.37	6.37	3.29
		27°C	8.52	8.52	2.17	8.24	8.24	2.35	7.95	7.95	2.54	7.67	7.67	2.76	7.08	7.08	2.99	6.59	6.59	3.30
		30°C	8.88	8.88	2.18	8.62	8.62	2.36	8.36	8.36	2.56	8.09	8.09	2.78	7.49	7.49	3.03	7.00	7.00	3.34
	19°C	24°C	9.25	6.08	2.20	8.92	5.93	2.38	8.59	5.78	2.58	8.24	5.62	2.79	7.57	5.23	3.03	6.99	4.93	3.34
		27°C	9.27	7.01	2.20	8.94	6.85	2.38	8.60	6.70	2.58	8.26	6.54	2.80	7.59	6.11	3.03	7.01	5.79	3.34
		30°C	9.31	8.64	2.20	8.99	8.46	2.38	8.67	8.27	2.58	8.33	8.07	2.80	7.67	7.54	3.04	7.12	7.12	3.35
		33°C	9.47	9.47	2.21	9.18	9.18	2.39	8.89	8.89	2.60	8.59	8.59	2.82	7.96	7.96	3.06	7.44	7.44	3.38
	22°C	27°C	10.16	5.96	2.24	9.81	5.82	2.42	9.44	5.67	2.63	9.07	5.52	2.85	8.33	5.15	3.09	7.71	4.85	3.40
		30°C	10.18	7.31	2.24	9.82	7.16	2.42	9.45	7.00	2.63	9.08	6.84	2.85	8.34	6.40	3.09	7.72	6.07	3.41
		33°C	10.20	8.57	2.24	9.84	8.40	2.43	9.48	8.23	2.63	9.11	8.05	2.85	8.38	7.56	3.10	7.77	7.17	3.41
		36°C	10.26	9.68	2.24	9.93	9.50	2.43	9.58	9.30	2.64	9.23	9.08	2.86	8.52	8.50	3.11	7.94	7.94	3.43
1030	16°C	21°C	8.71	6.71	2.18	8.39	6.54	2.36	8.07	6.37	2.55	7.73	6.19	2.77	7.09	5.77	3.00	6.54	5.43	3.31
		24°C	8.75	8.15	2.18	8.44	7.96	2.36	8.12	7.77	2.56	7.79	7.56	2.77	7.16	7.06	3.01	6.61	6.61	3.31
		27°C	8.90	8.90	2.19	8.60	8.60	2.37	8.31	8.31	2.57	8.02	8.02	2.79	7.41	7.41	3.02	6.90	6.90	3.34
		30°C	9.34	9.34	2.21	9.07	9.07	2.39	8.79	8.79	2.59	8.50	8.50	2.82	7.87	7.87	3.06	7.35	7.35	3.38
	19°C	24°C	9.59	6.44	2.22	9.24	6.28	2.40	8.89	6.12	2.60	8.53	5.95	2.82	7.82	5.55	3.06	7.22	5.23	3.37
		27°C	9.61	7.45	2.22	9.27	7.28	2.40	8.92	7.11	2.60	8.56	6.93	2.82	7.86	6.48	3.06	7.26	6.13	3.37
		30°C	9.69	9.17	2.22	9.35	8.97	2.41	9.01	8.76	2.61	8.67	8.54	2.83	7.98	7.98	3.07	7.41	7.41	3.38
		33°C	9.90	9.90	2.23	9.61	9.61	2.42	9.32	9.32	2.62	9.01	9.01	2.85	8.35	8.35	3.10	7.81	7.81	3.42
	22°C	27°C	10.52	6.30	2.26	10.14	6.16	2.45	9.76	6.00	2.65	9.37	5.85	2.87	8.61	5.46	3.12	7.95	5.15	3.43
		30°C	10.54	7.76	2.26	10.16	7.62	2.45	9.78	7.45	2.65	9.39	7.28	2.88	8.63	6.82	3.12	7.98	6.46	3.43
		33°C	10.58	9.10	2.26	10.21	8.94	2.45	9.84	8.75	2.66	9.45	8.56	2.88	8.69	8.02	3.12	8.05	7.61	3.44
		36°C	10.67	10.27	2.27	10.34	10.09	2.46	9.98	9.86	2.66	9.62	9.62	2.89	8.89	8.89	3.14	8.29	8.29	3.46

Model: FCQN100EXV1- RQ90DXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	5.527	5.527	6.256	6.256	6.499	6.499	9.171	9.171	10.628	10.628	11.357	11.357	12.085	12.085
17°C	5.382	5.382	5.751	5.751	6.382	6.382	9.160	9.160	10.633	10.633	11.383	11.383	12.133	12.133
19°C	5.238	5.238	5.247	5.247	6.266	6.266	9.149	9.149	10.637	10.637	11.409	11.409	12.180	12.180
21°C	5.093	5.093	5.069	5.069	6.150	6.150	9.115	9.115	10.642	10.642	11.435	11.435	12.228	12.228
23°C	4.948	4.948	5.217	5.217	6.033	6.033	9.057	9.057	10.647	10.647	11.461	11.461	12.275	12.275
25°C	4.803	4.803	5.366	5.366	5.917	5.917	9.000	9.000	10.652	10.652	11.487	11.487	12.323	12.323
27°C	4.658	4.658	5.515	5.515	5.800	5.800	8.942	8.942	10.656	10.656	11.513	11.513	12.370	12.370
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN100EXV1- RQ90DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
740	16°C	21°C	8.57	6.14	2.10	8.27	5.98	2.28	7.96	5.82	2.47	7.64	5.66	2.67	7.02	5.26	2.90	6.48	4.95	3.20
		24°C	8.58	7.36	2.11	8.28	7.19	2.28	7.97	7.02	2.47	7.65	6.85	2.67	7.03	6.39	2.90	6.50	6.03	3.20
		27°C	8.65	8.34	2.11	8.36	8.15	2.28	8.07	7.96	2.47	7.76	7.76	2.68	7.16	7.16	2.91	6.66	6.66	3.21
		30°C	8.92	8.92	2.12	8.66	8.66	2.29	8.40	8.40	2.49	8.13	8.13	2.70	7.53	7.53	2.93	7.05	7.05	3.24
	19°C	24°C	9.45	5.74	2.14	9.12	5.59	2.31	8.79	5.44	2.51	8.44	5.29	2.72	7.76	4.93	2.95	7.17	4.64	3.25
		27°C	9.46	6.56	2.14	9.13	6.41	2.31	8.79	6.27	2.51	8.45	6.12	2.72	7.76	5.72	2.95	7.18	5.42	3.25
		30°C	9.47	8.10	2.14	9.15	7.93	2.32	8.82	7.75	2.51	8.49	7.56	2.72	7.82	7.07	2.95	7.25	6.69	3.26
		33°C	9.59	9.59	2.14	9.27	9.27	2.32	8.97	8.97	2.52	8.67	8.67	2.73	8.02	8.02	2.97	7.50	7.50	3.28
	22°C	27°C	10.40	5.61	2.18	10.04	5.48	2.36	9.67	5.34	2.56	9.30	5.19	2.77	8.55	4.84	3.01	7.91	4.56	3.31
		30°C	10.40	6.84	2.18	10.04	6.70	2.36	9.68	6.54	2.56	9.30	6.39	2.77	8.55	5.98	3.01	7.92	5.67	3.31
		33°C	10.41	7.99	2.18	10.05	7.84	2.36	9.68	7.68	2.56	9.30	7.52	2.77	8.56	7.06	3.01	7.94	6.71	3.32
		36°C	10.44	9.06	2.18	10.10	8.88	2.36	9.75	8.69	2.56	9.39	8.50	2.78	8.66	7.97	3.02	8.05	7.56	3.33
860	16°C	21°C	8.92	6.41	2.12	8.60	6.24	2.30	8.27	6.08	2.49	7.93	5.91	2.70	7.28	5.50	2.92	6.71	5.18	3.22
		24°C	8.94	7.78	2.12	8.62	7.60	2.30	8.30	7.41	2.49	7.96	7.23	2.70	7.32	6.74	2.93	6.76	6.36	3.23
		27°C	9.05	8.83	2.13	8.75	8.63	2.30	8.45	8.41	2.50	8.14	8.14	2.71	7.52	7.52	2.94	7.00	7.00	3.25
		30°C	9.43	9.43	2.14	9.16	9.16	2.32	8.88	8.88	2.52	8.59	8.59	2.74	7.96	7.96	2.97	7.44	7.44	3.28
	19°C	24°C	9.82	6.06	2.16	9.47	5.91	2.34	9.12	5.76	2.53	8.75	5.60	2.74	8.04	5.22	2.98	7.42	4.92	3.28
		27°C	9.84	6.98	2.16	9.49	6.83	2.34	9.14	6.67	2.53	8.77	6.52	2.75	8.06	6.09	2.98	7.45	5.77	3.28
		30°C	9.89	8.61	2.16	9.54	8.43	2.34	9.20	8.24	2.54	8.85	8.04	2.75	8.15	7.51	2.98	7.56	7.10	3.29
		33°C	10.05	10.05	2.17	9.75	9.75	2.35	9.44	9.44	2.55	9.12	9.12	2.77	8.45	8.45	3.01	7.90	7.90	3.32
	22°C	27°C	10.79	5.94	2.20	10.41	5.80	2.38	10.03	5.65	2.58	9.63	5.50	2.80	8.85	5.13	3.04	8.18	4.84	3.34
		30°C	10.81	7.28	2.20	10.43	7.13	2.38	10.04	6.97	2.58	9.64	6.81	2.80	8.86	6.38	3.04	8.20	6.05	3.34
		33°C	10.83	8.53	2.20	10.45	8.37	2.38	10.07	8.20	2.58	9.67	8.03	2.80	8.90	7.53	3.04	8.25	7.15	3.35
		36°C	10.89	9.65	2.20	10.54	9.47	2.39	10.17	9.27	2.59	9.80	9.05	2.81	9.04	8.47	3.05	8.43	7.99	3.37
1030	16°C	21°C	9.25	6.69	2.14	8.91	6.52	2.32	8.57	6.35	2.51	8.21	6.17	2.72	7.53	5.74	2.95	6.94	5.41	3.25
		24°C	9.30	8.13	2.14	8.96	7.93	2.32	8.62	7.74	2.51	8.27	7.54	2.72	7.60	7.03	2.95	7.02	6.63	3.25
		27°C	9.45	9.31	2.15	9.14	9.07	2.33	8.83	8.82	2.52	8.51	8.51	2.74	7.87	7.87	2.97	7.33	7.33	3.28
		30°C	9.92	9.92	2.17	9.63	9.63	2.35	9.33	9.33	2.55	9.03	9.03	2.77	8.36	8.36	3.01	7.80	7.80	3.32
	19°C	24°C	10.18	6.41	2.18	9.81	6.26	2.36	9.44	6.10	2.55	9.05	5.93	2.77	8.31	5.53	3.00	7.67	5.21	3.31
		27°C	10.21	7.42	2.18	9.84	7.25	2.36	9.47	7.08	2.55	9.09	6.91	2.77	8.35	6.46	3.00	7.71	6.11	3.31
		30°C	10.29	9.13	2.18	9.93	8.93	2.36	9.57	8.73	2.56	9.21	8.51	2.78	8.48	7.95	3.01	7.87	7.49	3.32
		33°C	10.52	10.52	2.19	10.21	10.21	2.38	9.89	9.89	2.58	9.57	9.57	2.80	8.86	8.86	3.04	8.29	8.29	3.36
	22°C	27°C	11.17	6.27	2.22	10.77	6.14	2.40	10.37	5.98	2.60	9.95	5.83	2.82	9.14	5.44	3.06	8.45	5.13	3.37
		30°C	11.19	7.74	2.22	10.79	7.59	2.40	10.39	7.42	2.60	9.97	7.26	2.82	9.16	6.79	3.06	8.47	6.44	3.37
		33°C	11.23	9.07	2.22	10.84	8.91	2.41	10.44	8.72	2.61	10.03	8.53	2.83	9.23	7.99	3.07	8.55	7.59	3.38
		36°C	11.33	10.24	2.23	10.98	10.05	2.41	10.60	9.83	2.62	10.22	9.59	2.84	9.44	8.94	3.08	8.80	8.42	3.40

Model: FCQN100EXV1- RQ90DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	5.807	5.807	6.573	6.573	6.828	6.828	9.635	9.635	11.167	11.167	11.932	11.932	12.698	12.698
17°C	5.655	5.655	6.419	6.419	6.672	6.672	9.624	9.624	10.993	10.993	11.755	11.755	12.518	12.518
19°C	5.503	5.503	6.265	6.265	6.515	6.515	9.612	9.612	10.819	10.819	11.578	11.578	12.338	12.338
21°C	5.351	5.351	6.110	6.110	6.359	6.359	9.467	9.467	10.645	10.645	11.401	11.401	12.157	12.157
23°C	5.198	5.198	5.954	5.954	6.203	6.203	9.188	9.188	10.471	10.471	11.224	11.224	11.977	11.977
25°C	5.046	5.046	5.797	5.797	6.046	6.046	8.908	8.908	10.297	10.297	11.047	11.047	11.797	11.797
27°C	4.894	4.894	5.641	5.641	5.890	5.890	8.629	8.629	10.123	10.123	10.870	10.870	11.617	11.617
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN100EXV1- RQ100DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
740	16°C	21°C	10.75	7.10	2.98	10.37	6.91	3.22	9.98	6.73	3.49	9.58	6.53	3.78	8.80	6.08	4.10	8.12	5.72	4.52
		24°C	10.76	8.50	2.98	10.38	8.30	3.22	10.00	8.11	3.49	9.60	7.91	3.78	8.82	7.39	4.11	8.15	6.97	4.53
		27°C	10.85	9.63	2.98	10.49	9.42	3.23	10.12	9.19	3.50	9.74	8.96	3.79	8.98	8.34	4.12	8.36	7.83	4.54
		30°C	11.18	11.18	3.00	10.86	10.86	3.25	10.53	10.53	3.52	10.19	10.19	3.82	9.45	9.45	4.15	8.84	8.84	4.59
	19°C	24°C	11.85	6.63	3.03	11.44	6.46	3.28	11.02	6.29	3.55	10.58	6.11	3.85	9.73	5.69	4.18	8.99	5.36	4.60
		27°C	11.86	7.58	3.03	11.44	7.41	3.28	11.03	7.24	3.55	10.59	7.06	3.85	9.74	6.61	4.18	9.00	6.26	4.60
		30°C	11.88	9.35	3.03	11.47	9.16	3.28	11.07	8.95	3.55	10.65	8.74	3.85	9.80	8.17	4.18	9.09	7.73	4.61
		33°C	12.02	12.02	3.03	11.63	11.63	3.29	11.25	11.25	3.56	10.87	10.87	3.87	10.06	10.06	4.20	9.40	9.40	4.64
	22°C	27°C	13.04	6.49	3.08	12.59	6.33	3.34	12.13	6.17	3.62	11.66	6.00	3.92	10.72	5.59	4.26	9.92	5.27	4.69
		30°C	13.05	7.90	3.08	12.60	7.73	3.34	12.13	7.56	3.62	11.66	7.38	3.92	10.72	6.91	4.26	9.93	6.55	4.69
		33°C	13.05	9.23	3.08	12.60	9.05	3.34	12.14	8.87	3.62	11.67	8.69	3.93	10.74	8.16	4.26	9.95	7.75	4.69
		36°C	13.10	10.47	3.08	12.66	10.26	3.34	12.22	10.04	3.62	11.78	9.82	3.93	10.86	9.21	4.27	10.10	8.74	4.71
860	16°C	21°C	11.18	7.40	3.01	10.78	7.21	3.25	10.37	7.02	3.52	9.95	6.82	3.82	9.13	6.35	4.14	8.42	5.98	4.56
		24°C	11.22	8.98	3.01	10.81	8.77	3.25	10.41	8.56	3.52	9.99	8.35	3.82	9.18	7.79	4.14	8.48	7.35	4.57
		27°C	11.35	10.20	3.01	10.97	9.97	3.26	10.59	9.71	3.53	10.21	9.42	3.83	9.43	8.75	4.16	8.78	8.19	4.59
		30°C	11.83	11.83	3.03	11.48	11.48	3.29	11.13	11.13	3.56	10.77	10.77	3.87	9.98	9.98	4.21	9.33	9.33	4.64
	19°C	24°C	12.32	7.00	3.05	11.88	6.83	3.31	11.44	6.65	3.58	10.98	6.47	3.88	10.08	6.03	4.21	9.31	5.68	4.64
		27°C	12.34	8.07	3.06	11.90	7.89	3.31	11.46	7.71	3.58	11.00	7.53	3.89	10.10	7.04	4.21	9.34	6.66	4.64
		30°C	12.40	9.95	3.06	11.97	9.73	3.31	11.54	9.52	3.59	11.10	9.28	3.89	10.22	8.68	4.22	9.48	8.20	4.66
		33°C	12.61	12.61	3.07	12.22	12.22	3.33	11.83	11.83	3.61	11.44	11.44	3.92	10.60	10.60	4.26	9.91	9.91	4.70
	22°C	27°C	13.54	6.86	3.11	13.06	6.70	3.37	12.57	6.53	3.65	12.07	6.35	3.96	11.10	5.92	4.30	10.26	5.59	4.73
		30°C	13.55	8.41	3.11	13.08	8.24	3.37	12.59	8.05	3.65	12.09	7.87	3.96	11.11	7.37	4.30	10.28	6.99	4.73
		33°C	13.58	9.86	3.11	13.11	9.67	3.37	12.62	9.47	3.66	12.13	9.27	3.97	11.16	8.70	4.30	10.34	8.26	4.74
		36°C	13.66	11.14	3.12	13.22	10.93	3.38	12.76	10.71	3.67	12.29	10.46	3.98	11.34	9.79	4.32	10.58	9.23	4.76
1030	16°C	21°C	11.60	7.72	3.03	11.17	7.53	3.28	10.74	7.33	3.55	10.30	7.12	3.85	9.45	6.64	4.17	8.71	6.25	4.60
		24°C	11.66	9.39	3.03	11.23	9.16	3.28	10.81	8.94	3.55	10.38	8.70	3.85	9.53	8.12	4.18	8.80	7.66	4.60
		27°C	11.85	10.76	3.04	11.46	10.48	3.29	11.07	10.19	3.57	10.67	9.87	3.87	9.86	9.14	4.20	9.19	8.54	4.64
		30°C	12.44	12.44	3.07	12.08	12.08	3.32	11.70	11.70	3.61	11.32	11.32	3.91	10.48	10.48	4.25	9.79	9.79	4.69
	19°C	24°C	12.77	7.41	3.08	12.30	7.23	3.33	11.84	7.04	3.61	11.35	6.85	3.92	10.42	6.39	4.25	9.62	6.02	4.68
		27°C	12.80	8.57	3.08	12.34	8.38	3.34	11.88	8.18	3.61	11.40	7.98	3.92	10.47	7.46	4.25	9.67	7.06	4.68
		30°C	12.91	10.55	3.09	12.45	10.32	3.34	12.01	10.08	3.62	11.55	9.83	3.93	10.63	9.18	4.26	9.87	8.65	4.70
		33°C	13.19	13.19	3.10	12.80	12.80	3.36	12.41	12.41	3.65	12.00	12.00	3.96	11.12	11.12	4.30	10.40	10.40	4.75
	22°C	27°C	14.01	7.25	3.14	13.51	7.09	3.40	13.00	6.91	3.68	12.48	6.73	3.99	11.46	6.28	4.33	10.59	5.93	4.77
		30°C	14.04	8.94	3.14	13.54	8.77	3.40	13.03	8.58	3.69	12.50	8.38	4.00	11.49	7.85	4.33	10.63	7.44	4.77
		33°C	14.09	10.47	3.14	13.60	10.29	3.41	13.10	10.07	3.69	12.58	9.85	4.00	11.58	9.23	4.34	10.72	8.76	4.78
		36°C	14.21	11.82	3.15	13.77	11.61	3.42	13.29	11.35	3.70	12.81	11.07	4.02	11.84	10.33	4.36	11.04	9.72	4.81

Model: FCQN100EXV1- RQ100DXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	6.860	6.860	7.764	7.764	8.065	8.065	11.381	11.381	13.189	13.189	14.094	14.094	14.998	14.998
17°C	6.680	6.680	7.612	7.612	7.912	7.912	11.367	11.367	13.151	13.151	14.075	14.075	14.999	14.999
19°C	6.500	6.500	7.460	7.460	7.759	7.759	11.354	11.354	13.112	13.112	14.056	14.056	15.001	15.001
21°C	6.320	6.320	7.302	7.302	7.606	7.606	11.284	11.284	13.073	13.073	14.038	14.038	15.003	15.003
23°C	6.140	6.140	7.136	7.136	7.453	7.453	11.158	11.158	13.034	13.034	14.019	14.019	15.004	15.004
25°C	5.960	5.960	6.971	6.971	7.300	7.300	11.032	11.032	12.995	12.995	14.001	14.001	15.006	15.006
27°C	5.781	5.781	6.806	6.806	7.147	7.147	10.906	10.906	12.957	12.957	13.982	13.982	15.007	15.007
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FCQN125EXV1- RQ125DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
930	16°C	21°C	11.88	8.18	3.34	11.46	7.97	3.61	11.03	7.75	3.91	10.59	7.53	4.24	9.73	7.01	4.60	8.98	6.59	5.07
		24°C	11.90	9.80	3.34	11.47	9.57	3.61	11.05	9.35	3.91	10.61	9.12	4.24	9.75	8.52	4.60	9.01	8.04	5.07
		27°C	11.99	11.11	3.34	11.59	10.86	3.61	11.18	10.60	3.92	10.76	10.33	4.25	9.93	9.61	4.61	9.24	9.03	5.09
		30°C	12.36	12.36	3.36	12.00	12.00	3.64	11.64	11.64	3.94	11.27	11.27	4.28	10.44	10.44	4.65	9.77	9.77	5.14
	19°C	24°C	13.11	7.64	3.39	12.65	7.45	3.67	12.18	7.25	3.97	11.70	7.04	4.31	10.75	6.56	4.68	9.94	6.18	5.15
		27°C	13.11	8.74	3.39	12.65	8.54	3.67	12.19	8.35	3.98	11.71	8.15	4.31	10.76	7.62	4.68	9.95	7.22	5.16
		30°C	13.13	10.79	3.39	12.68	10.56	3.67	12.23	10.32	3.98	11.77	10.07	4.32	10.84	9.42	4.68	10.05	8.92	5.16
		33°C	13.29	13.29	3.40	12.86	12.86	3.68	12.44	12.44	3.99	12.02	12.02	4.33	11.12	11.12	4.71	10.39	10.39	5.20
	22°C	27°C	14.42	7.48	3.45	13.92	7.30	3.74	13.41	7.11	4.05	12.89	6.92	4.39	11.85	6.45	4.77	10.97	6.08	5.25
		30°C	14.42	9.11	3.45	13.92	8.92	3.74	13.41	8.72	4.05	12.89	8.51	4.40	11.85	7.96	4.77	10.97	7.55	5.25
		33°C	14.43	10.64	3.45	13.93	10.44	3.74	13.42	10.23	4.05	12.90	10.02	4.40	11.87	9.41	4.77	11.00	8.94	5.26
		36°C	14.48	12.07	3.45	14.00	11.83	3.74	13.51	11.58	4.06	13.02	11.32	4.40	12.01	10.62	4.78	11.16	10.07	5.27
1030	16°C	21°C	12.36	8.53	3.37	11.91	8.31	3.64	11.46	8.09	3.94	10.99	7.86	4.27	10.09	7.32	4.63	9.31	6.89	5.11
		24°C	12.40	10.36	3.37	11.95	10.11	3.64	11.51	9.87	3.95	11.04	9.62	4.28	10.14	8.98	4.64	9.38	8.47	5.11
		27°C	12.55	11.76	3.38	12.13	11.49	3.65	11.71	11.19	3.96	11.29	10.86	4.29	10.42	10.09	4.66	9.71	9.44	5.14
		30°C	13.07	13.07	3.40	12.69	12.69	3.68	12.31	12.31	3.99	11.91	11.91	4.33	11.03	11.03	4.71	10.31	10.31	5.20
	19°C	24°C	13.62	8.07	3.42	13.13	7.87	3.70	12.64	7.66	4.01	12.13	7.45	4.35	11.14	6.95	4.72	10.29	6.55	5.20
		27°C	13.64	9.30	3.42	13.15	9.09	3.70	12.66	8.89	4.01	12.15	8.68	4.35	11.17	8.11	4.72	10.32	7.68	5.20
		30°C	13.71	11.47	3.43	13.23	11.22	3.71	12.76	10.97	4.02	12.27	10.70	4.36	11.30	10.01	4.73	10.48	9.45	5.22
		33°C	13.94	13.94	3.44	13.51	13.51	3.72	13.08	13.08	4.04	12.65	12.65	4.39	11.71	11.71	4.77	10.95	10.95	5.26
	22°C	27°C	14.96	7.90	3.48	14.44	7.72	3.77	13.90	7.52	4.09	13.35	7.32	4.44	12.26	6.83	4.81	11.34	6.44	5.30
		30°C	14.98	9.70	3.48	14.45	9.50	3.77	13.91	9.29	4.09	13.36	9.07	4.44	12.28	8.49	4.81	11.36	8.06	5.30
		33°C	15.01	11.36	3.49	14.49	11.15	3.78	13.95	10.92	4.10	13.41	10.69	4.44	12.33	10.02	4.82	11.43	9.52	5.31
		36°C	15.10	12.85	3.49	14.61	12.60	3.79	14.10	12.34	4.10	13.59	12.05	4.45	12.54	11.28	4.83	11.69	10.64	5.33
1200	16°C	21°C	12.82	8.90	3.39	12.35	8.68	3.67	11.87	8.45	3.97	11.38	8.21	4.31	10.44	7.65	4.67	9.62	7.20	5.15
		24°C	12.89	10.82	3.40	12.42	10.56	3.67	11.95	10.30	3.98	11.47	10.03	4.31	10.53	9.36	4.68	9.73	8.83	5.16
		27°C	13.09	12.40	3.41	12.67	12.08	3.69	12.24	11.74	4.00	11.80	11.38	4.34	10.90	10.54	4.71	10.16	9.84	5.20
		30°C	13.75	13.75	3.44	13.35	13.35	3.72	12.94	12.94	4.04	12.51	12.51	4.38	11.58	11.58	4.76	10.82	10.82	5.26
	19°C	24°C	14.11	8.54	3.45	13.60	8.33	3.73	13.08	8.12	4.04	12.55	7.90	4.39	11.52	7.36	4.76	10.63	6.94	5.24
		27°C	14.15	9.88	3.45	13.64	9.65	3.74	13.13	9.43	4.05	12.60	9.20	4.39	11.57	8.60	4.76	10.69	8.14	5.25
		30°C	14.27	12.16	3.46	13.76	11.89	3.74	13.27	11.62	4.06	12.76	11.33	4.40	11.75	10.58	4.77	10.91	9.98	5.26
		33°C	14.58	14.58	3.47	14.15	14.15	3.77	13.71	13.71	4.09	13.26	13.26	4.44	12.29	12.29	4.82	11.49	11.49	5.32
	22°C	27°C	15.48	8.35	3.51	14.93	8.17	3.81	14.37	7.97	4.13	13.79	7.76	4.47	12.67	7.24	4.85	11.71	6.84	5.34
		30°C	15.51	10.30	3.52	14.96	10.10	3.81	14.40	9.88	4.13	13.82	9.66	4.48	12.70	9.05	4.85	11.74	8.58	5.35
		33°C	15.57	12.07	3.52	15.03	11.86	3.81	14.48	11.61	4.13	13.91	11.35	4.48	12.80	10.64	4.86	11.85	10.10	5.36
		36°C	15.71	13.63	3.53	15.21	13.38	3.82	14.69	13.09	4.15	14.16	12.76	4.50	13.08	11.90	4.89	12.20	11.21	5.39

Model: FCQN125EXV1- RQ125DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	8.209	8.209	9.291	9.291	9.651	9.651	13.619	13.619	15.783	15.783	16.865	16.865	17.947	17.947
17°C	7.993	7.993	9.403	9.403	9.434	9.434	13.603	13.603	15.559	15.559	16.639	16.639	17.720	17.720
19°C	7.778	7.778	9.515	9.515	9.217	9.217	13.587	13.587	15.334	15.334	16.414	16.414	17.493	17.493
21°C	7.563	7.563	9.345	9.345	9.000	9.000	13.394	13.394	15.110	15.110	16.188	16.188	17.266	17.266
23°C	7.348	7.348	8.894	8.894	8.783	8.783	13.025	13.025	14.885	14.885	15.962	15.962	17.039	17.039
25°C	7.133	7.133	8.443	8.443	8.566	8.566	12.657	12.657	14.661	14.661	15.736	15.736	16.811	16.811
27°C	6.917	6.917	7.991	7.991	8.350	8.350	12.288	12.288	14.436	14.436	15.510	15.510	16.584	16.584
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

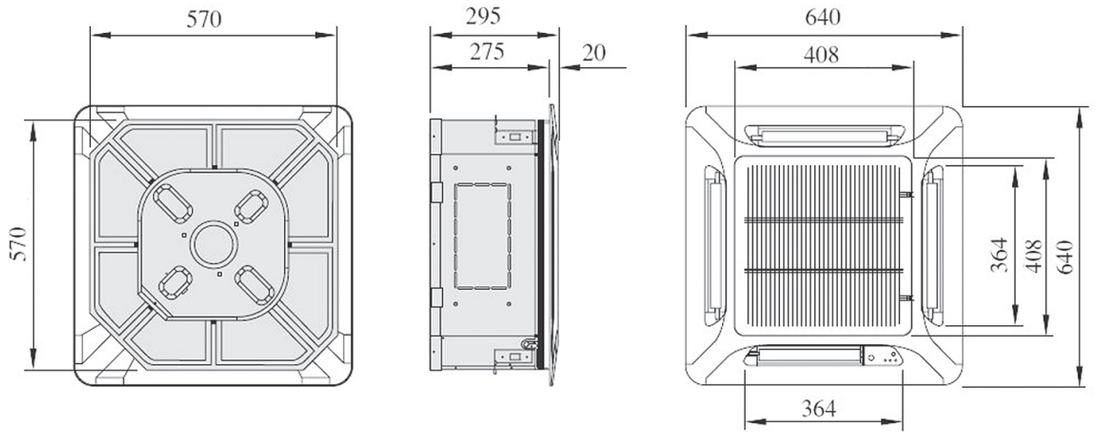
Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Outline & Dimension

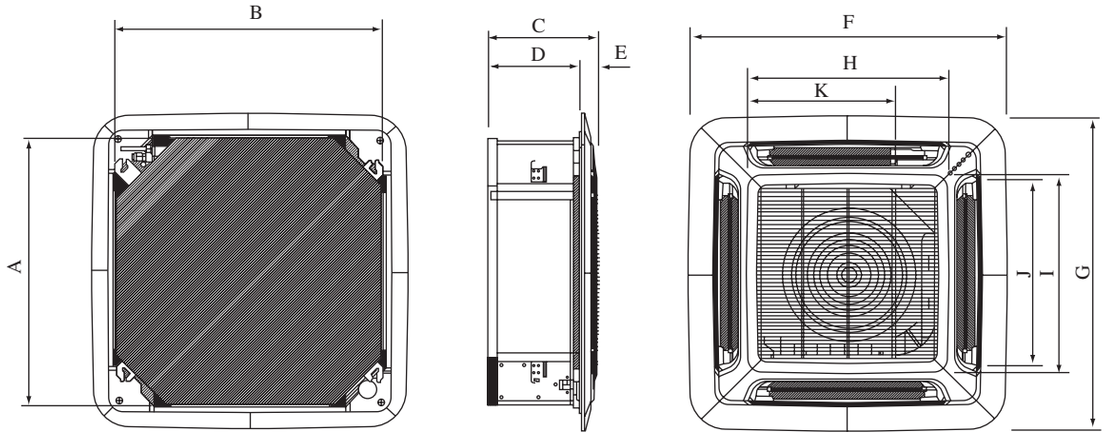
Indoor Unit

Model: FF(R)(Q)N25/35/50CXV1



Note: Dimension in mm

Model: FC(R)(Q)N50/60/71/100/125EXV1



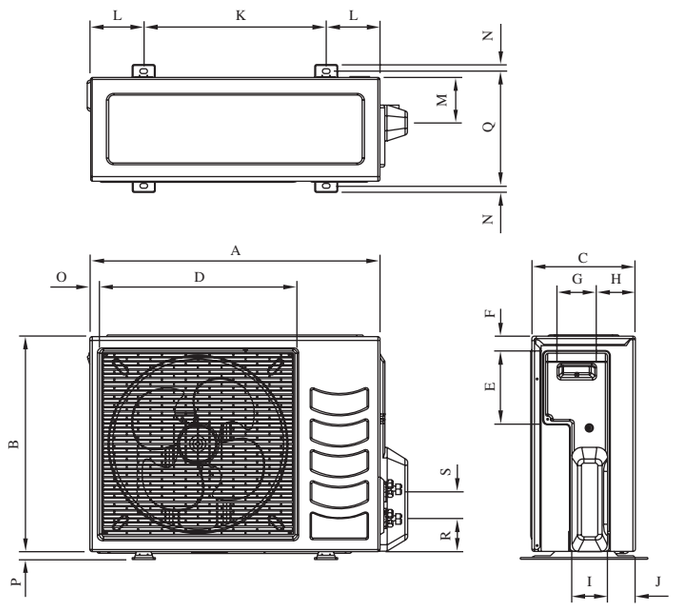
Dimension / Model	A	B	C	D	E	F	G	H	I	J	K
FC(R)(Q)N50/60/71EXV1	820	820	340	300	40	990	990	627	627	607	430
FC(R)(Q)N100/125EXV1	820	820	375	335	40	990	990	627	627	607	430

Note: Dimension in mm

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Outdoor Unit

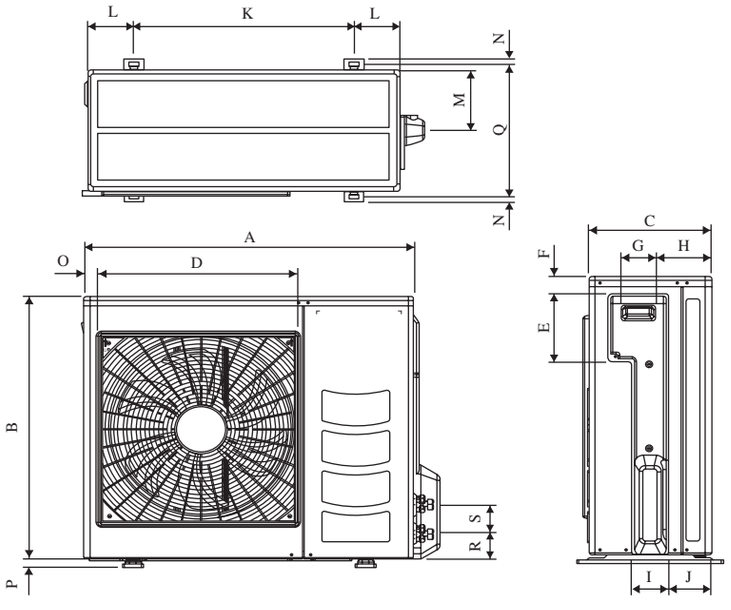
Model: R(Y)N25/35CXV1



Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
R(Y)N25/35CXV1	700	521	250	478	175	36	95	94	86	68	440	130	110	15	21	19	278	80	65

Note: Dimension in mm

Model: R(Y)N50/60CXV1 / R(R)(Q)71CXV1

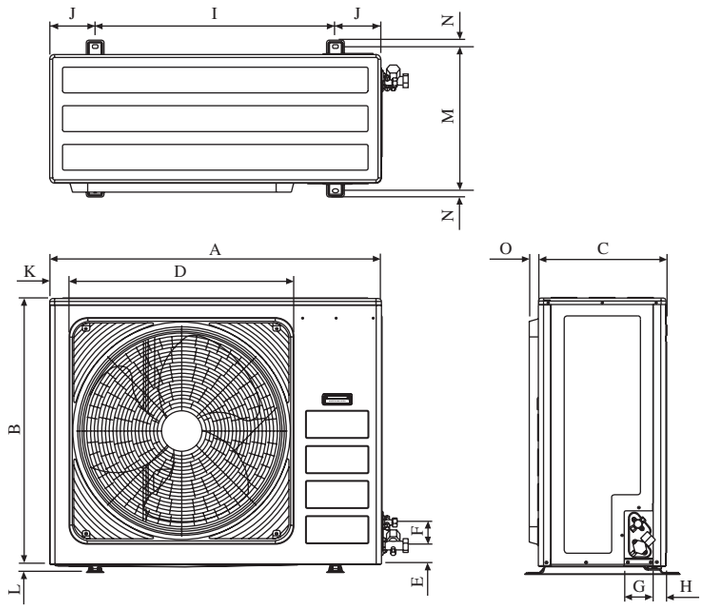


Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
R(Y)N50CXV1	855	628	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75
R(Y)N60CXV1 / R(R)(Q)71CXV1	855	730	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75

Note: Dimension in mm

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Model: R(R)(Q)90/100DXV1 / R(R)(Q)100/125DXY1



Dimension / Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
R(R)(Q)90/100DXV1 / R(R)(Q)100/125DXY1	1030	826	400	410	57	72	90	40	746	142	60	26	448	22	28

Note: Dimension in mm

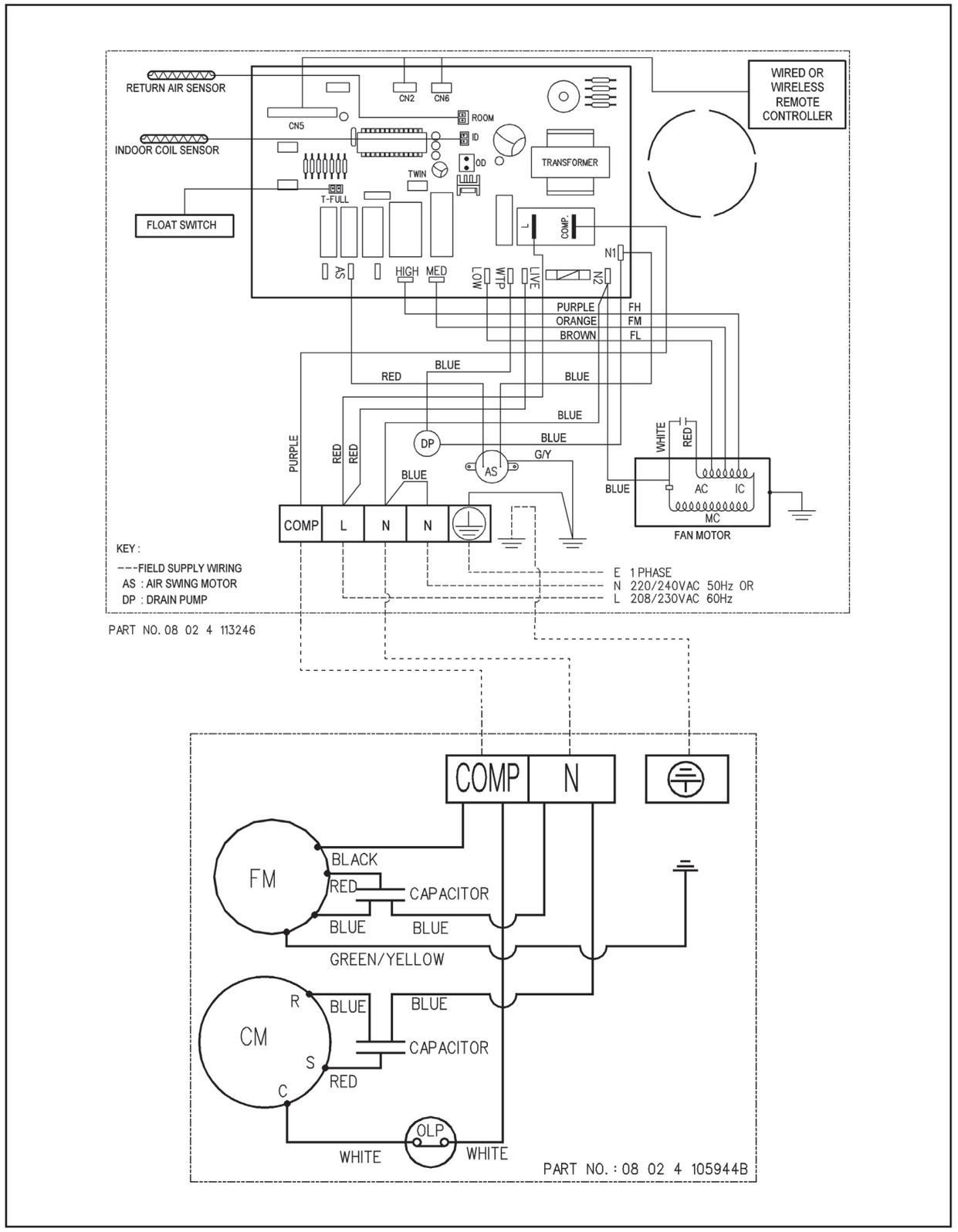
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Wiring Diagram

Cooling Only

Indoor Unit
Model: FFRN25/35CXV1

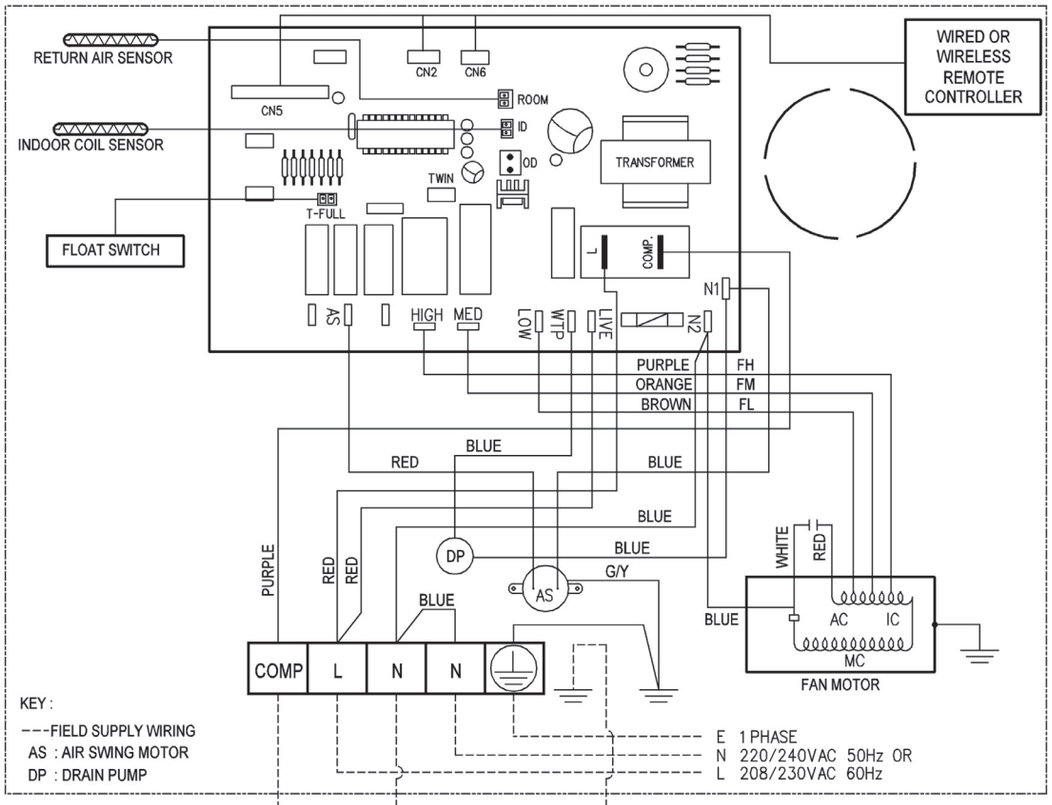
Outdoor Unit
Model: RN25/35CXV1



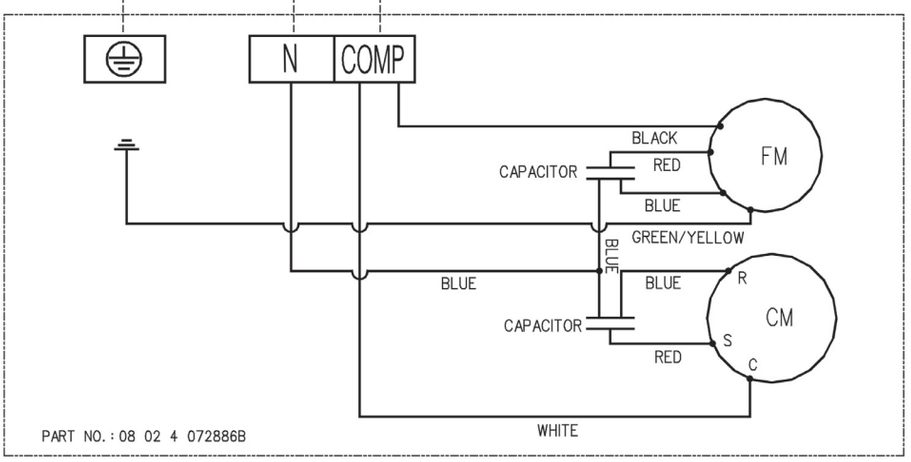
DAIKIN_FFRN.indb 53 12/27/2012 9:28:15 AM

Indoor Unit
Model: FFRN50CXV1

Outdoor Unit
Model: RN50CXV1



PART NO. 08 02 4 113246

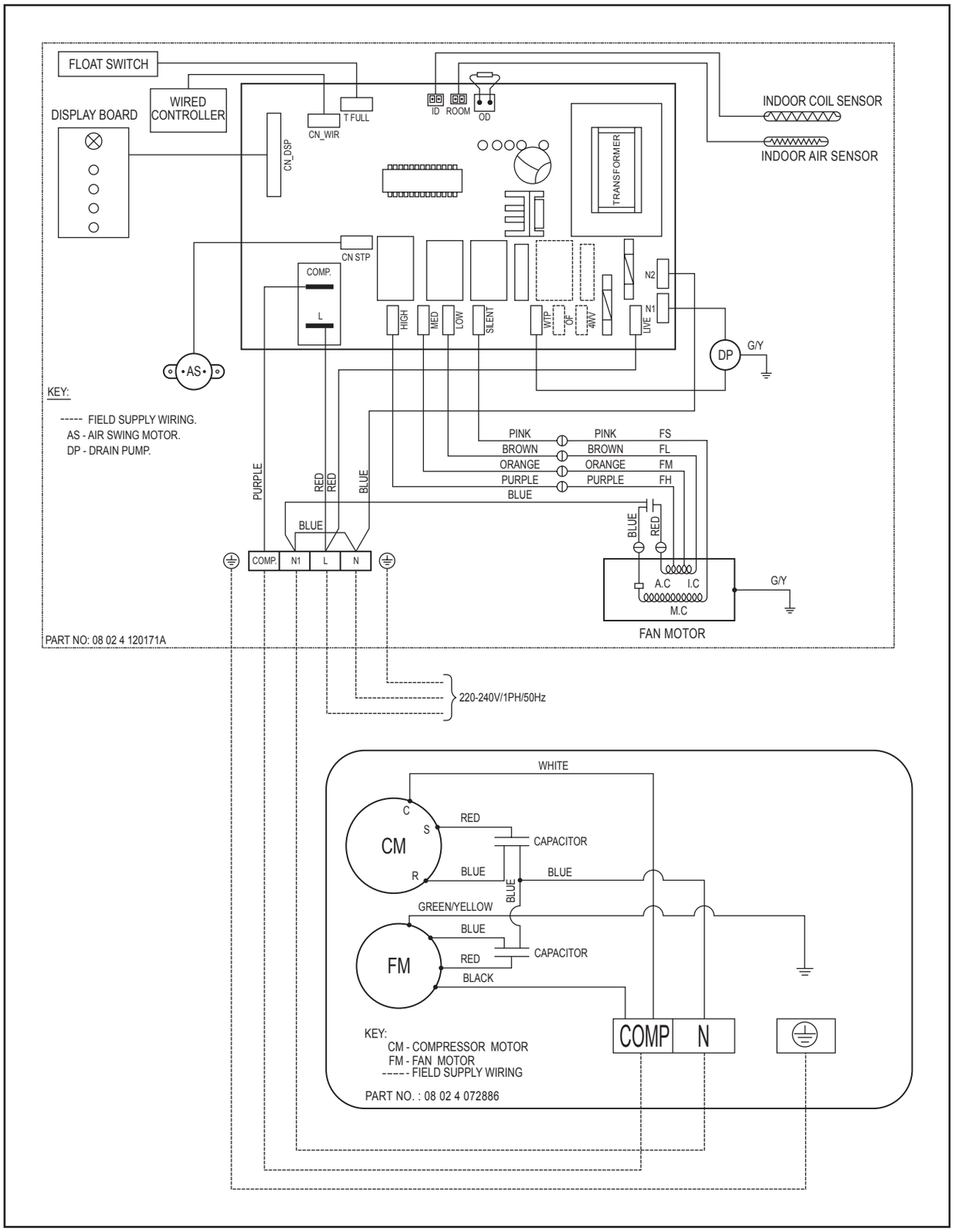


PART NO. : 08 02 4 072886B

DAIKIN_FFRN.indb 54 12/27/2012 9:28:16 AM

Indoor Unit
Model: FCRN50/60/71EXV1

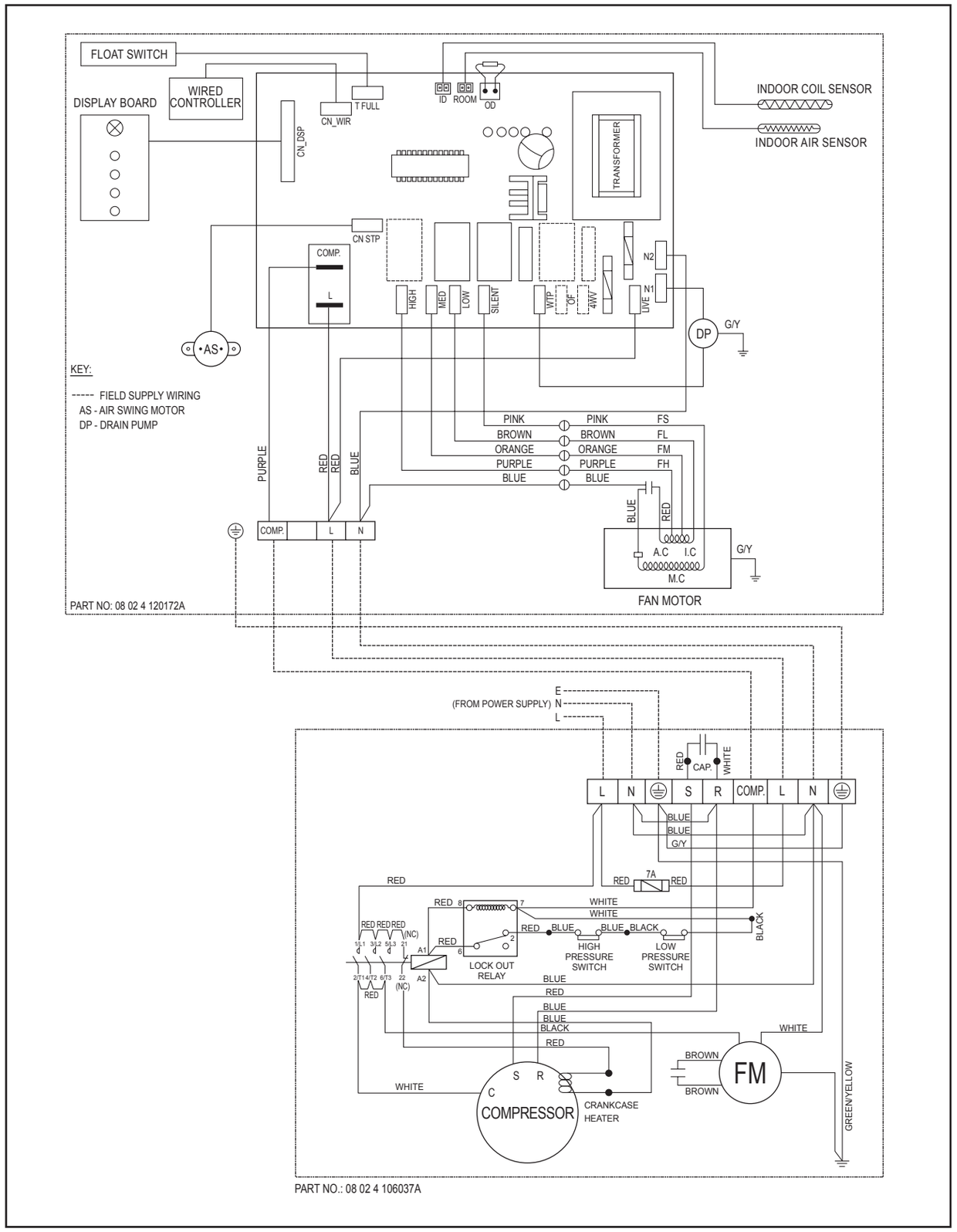
Outdoor Unit
Model: RN50/60CXV1 / RR71CXV1



DAIKIN_FFRN.indb 55 12/27/2012 9:28:16 AM

Indoor Unit
Model: FCRN100EXV1

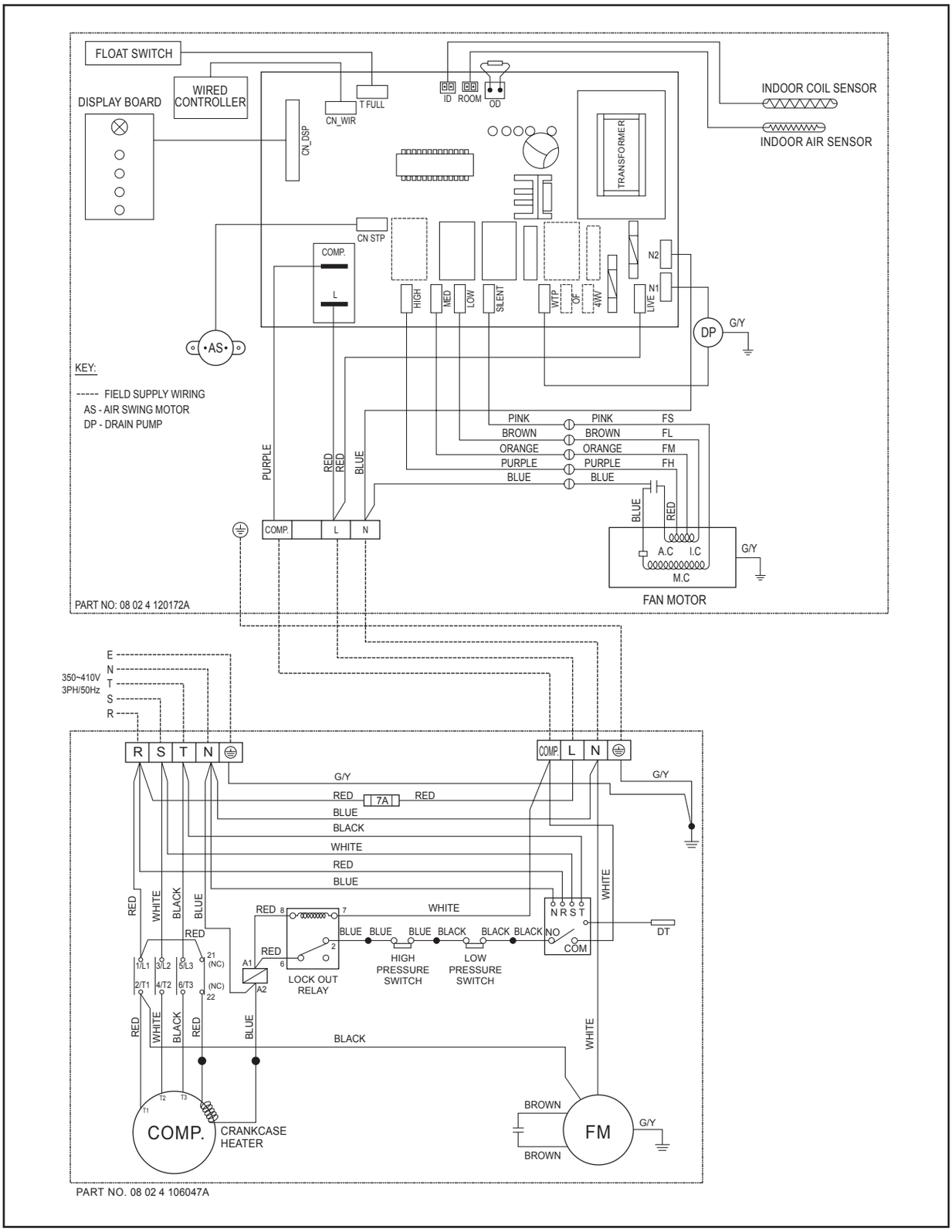
Outdoor Unit
Model: RR90/100DXV1



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Indoor Unit
Model: FCRN100/125EXV1

Outdoor Unit
Model: RR100/125DXY1

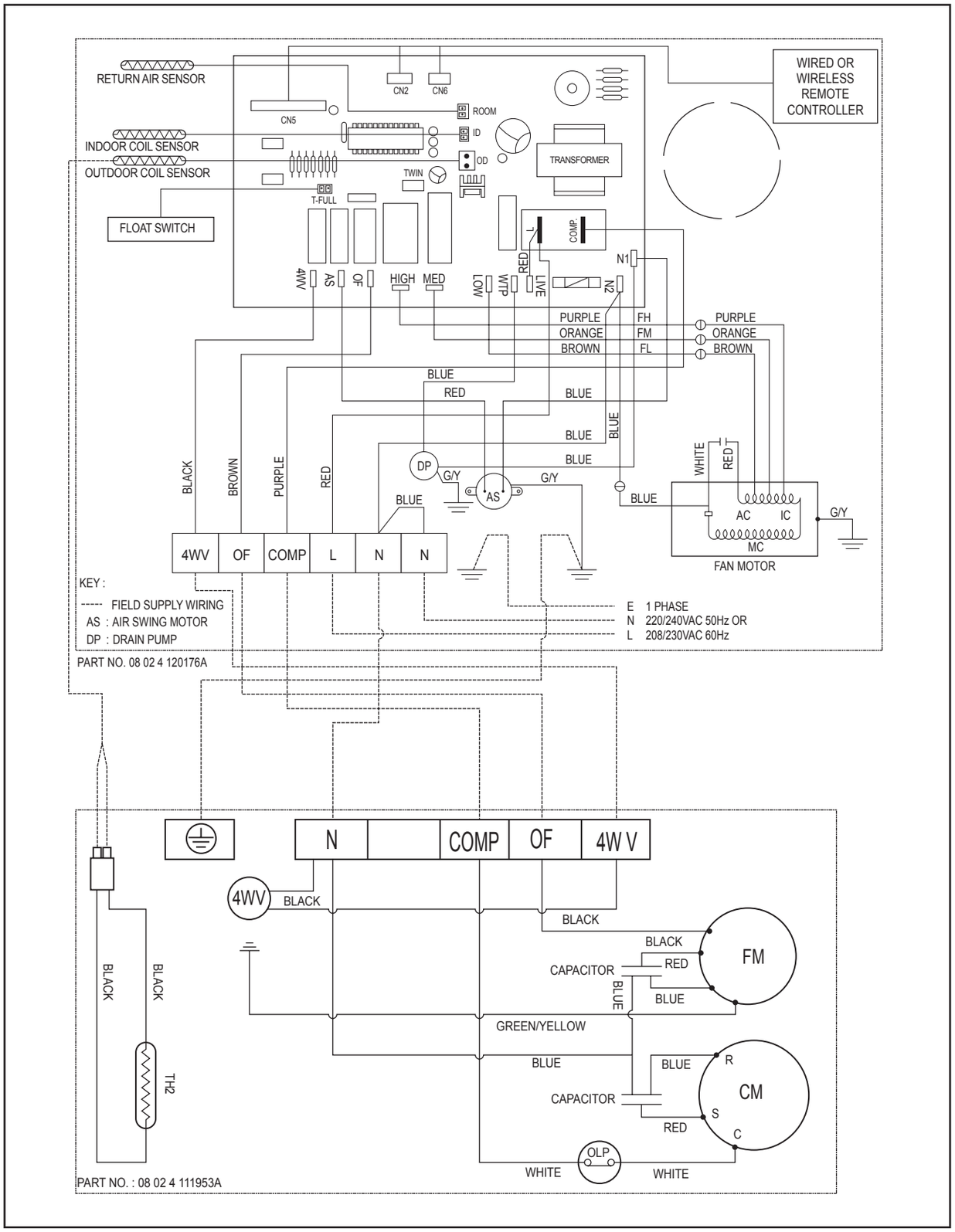


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Heatpump

Indoor Unit
Model: FFQN25/35CXV1

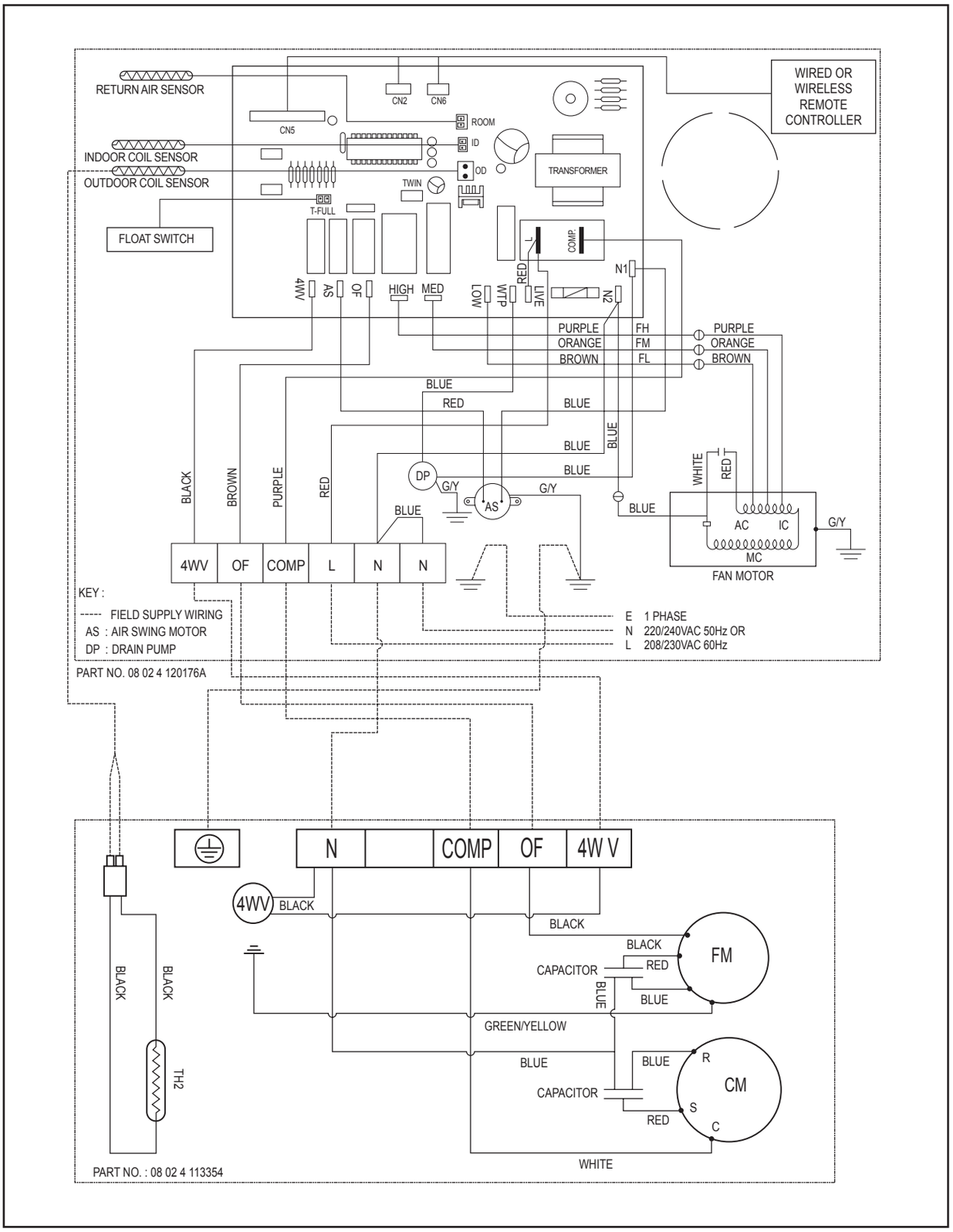
Outdoor Unit
Model: RYN25/35CXV1



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Indoor Unit
Model: FFQN50CXV1

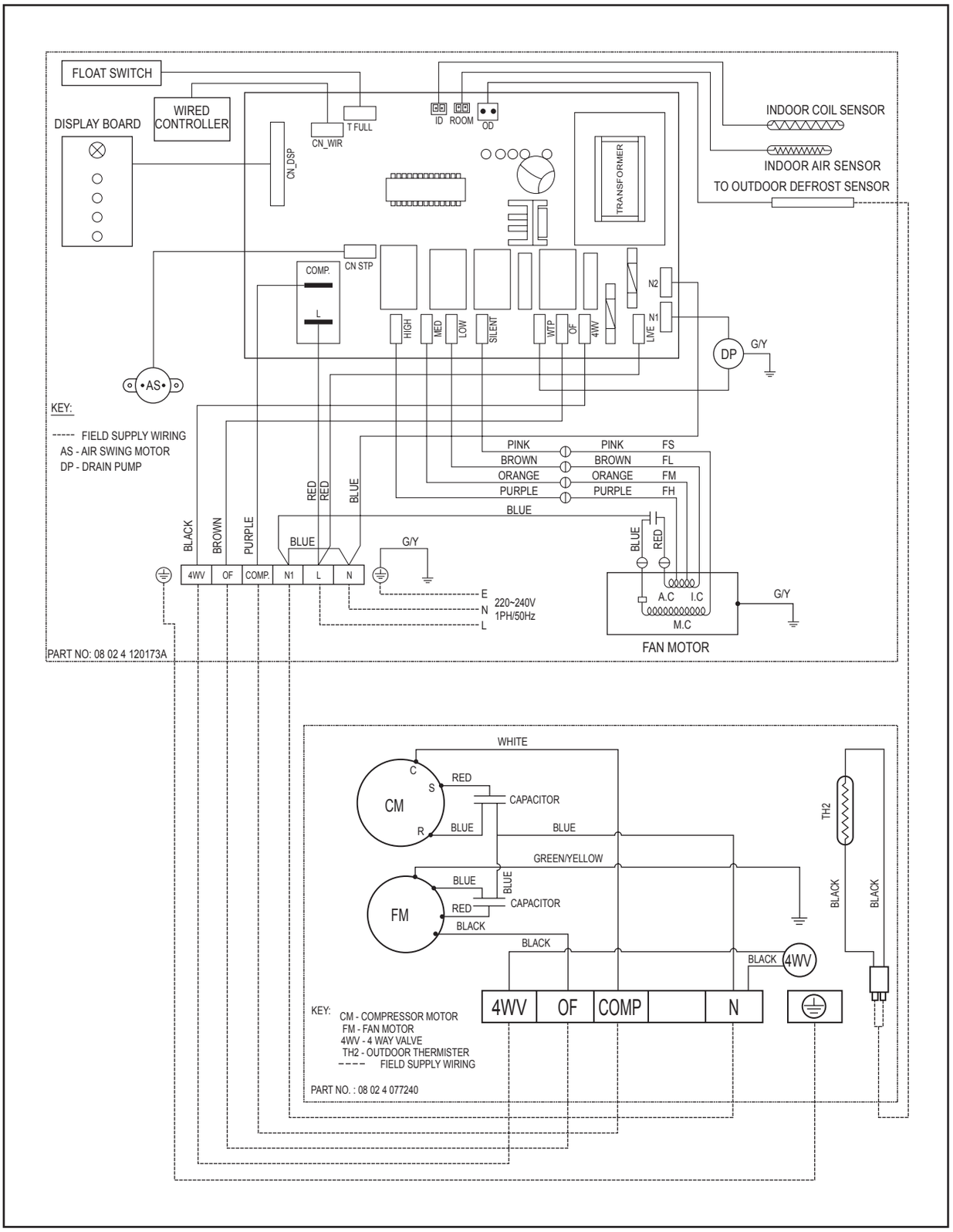
Outdoor Unit
Model: RYN50CXV1



DAIKIN_FFRN.indb 59 12/27/2012 9:28:16 AM

Indoor Unit
Model: FCQN50/60/71EXV1

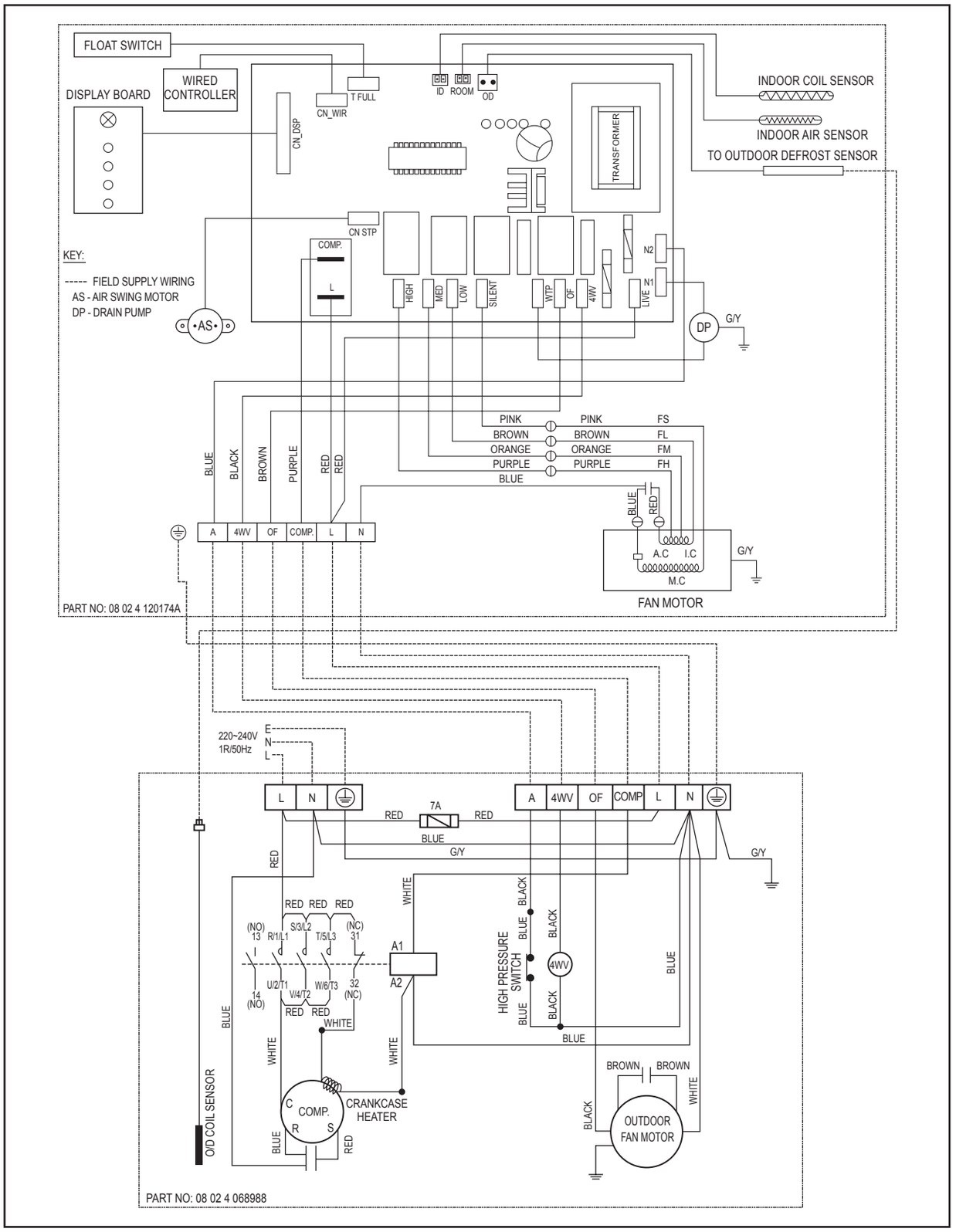
Outdoor Unit
Model: RYN50/60CXV1 / RQ71CXV1



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Indoor Unit
Model: FCQN100EXV1

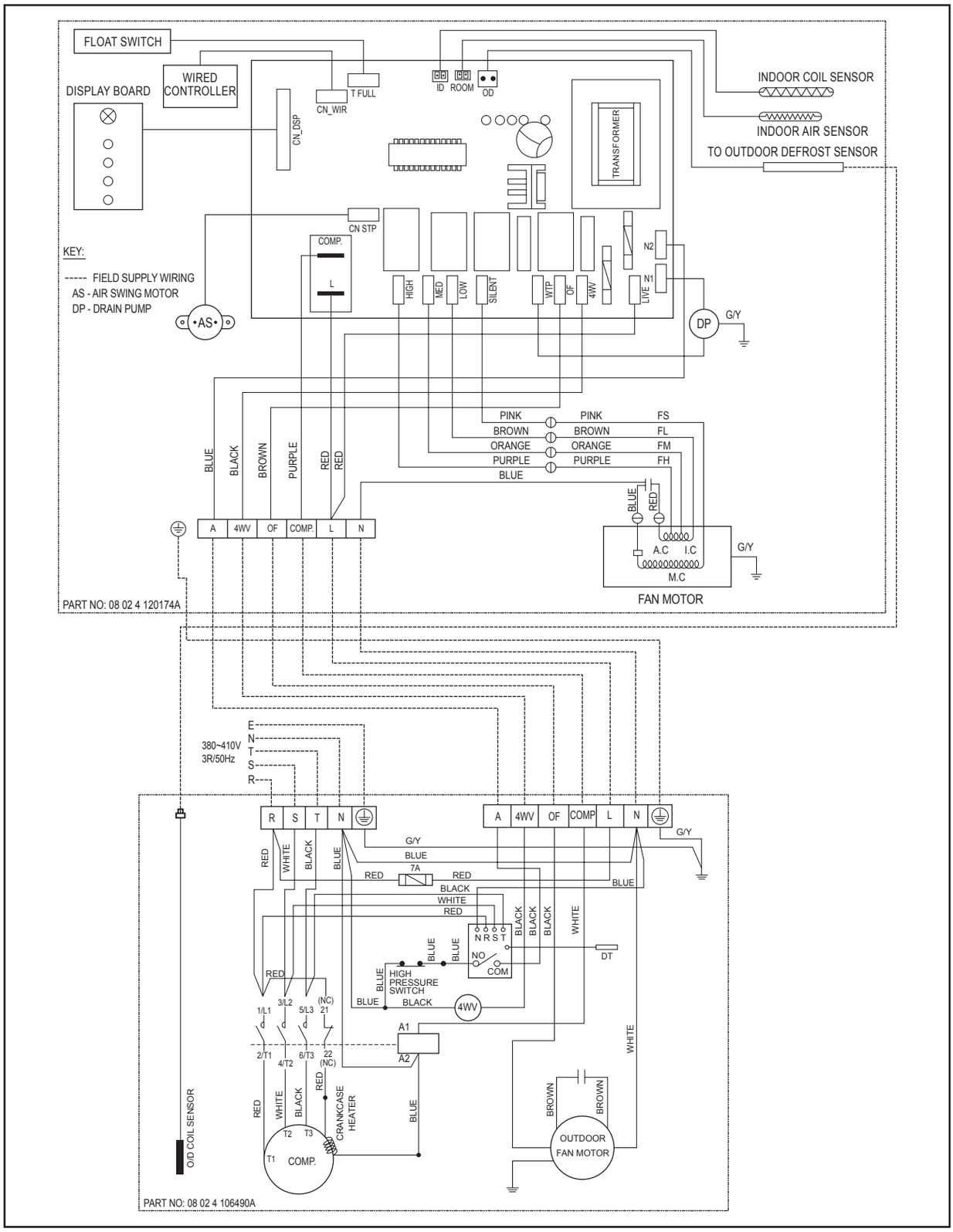
Outdoor Unit
Model: RQ90/100DXV1



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Indoor Unit
Model: FCQN100EXV1

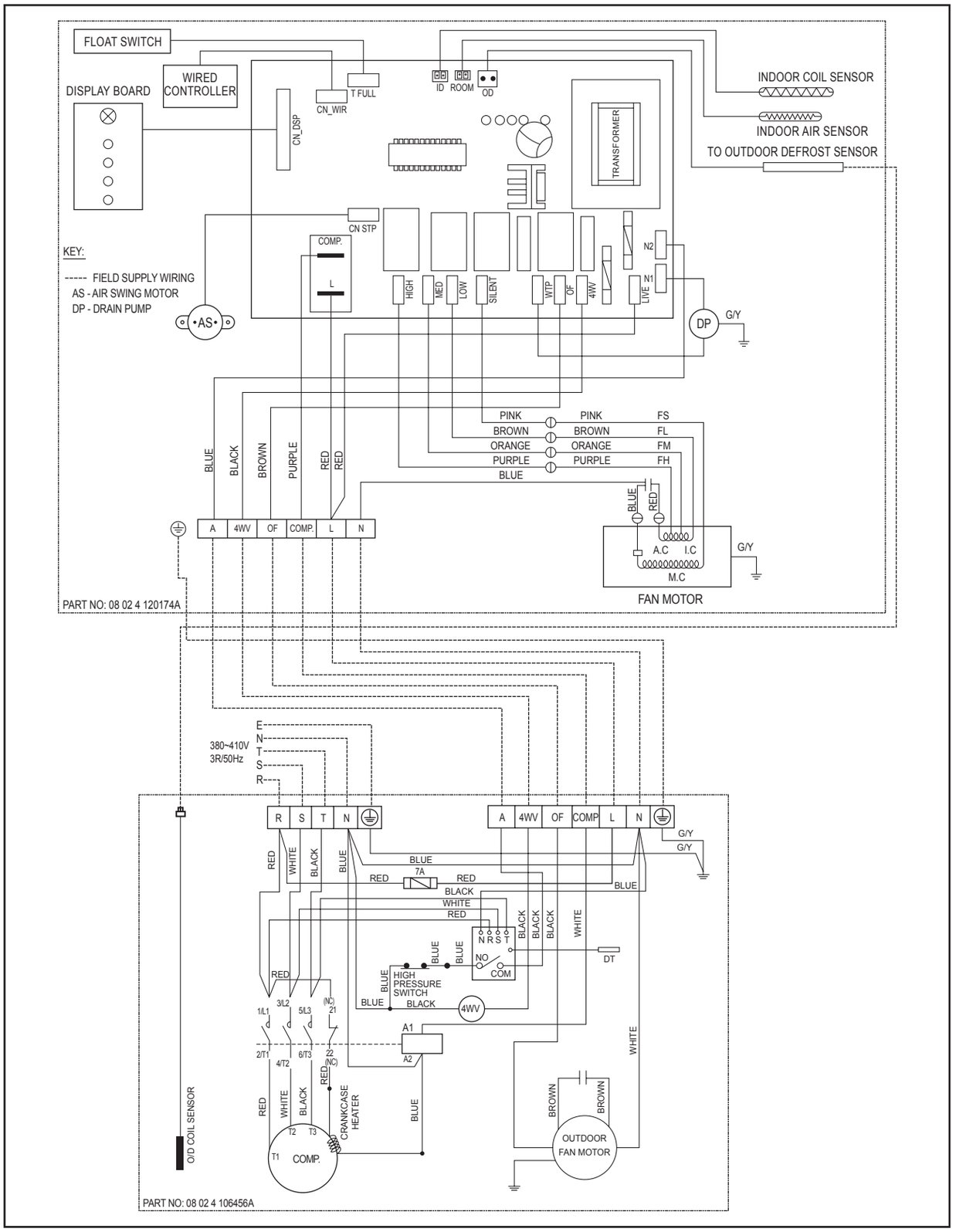
Outdoor Unit
Model: RQ100DXY1



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Indoor Unit
Model: FCQN125EXV1

Outdoor Unit
Model: RQ125DXY1



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Service & Maintenance

⚠ Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter.	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit.	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.

⚠ Caution

- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

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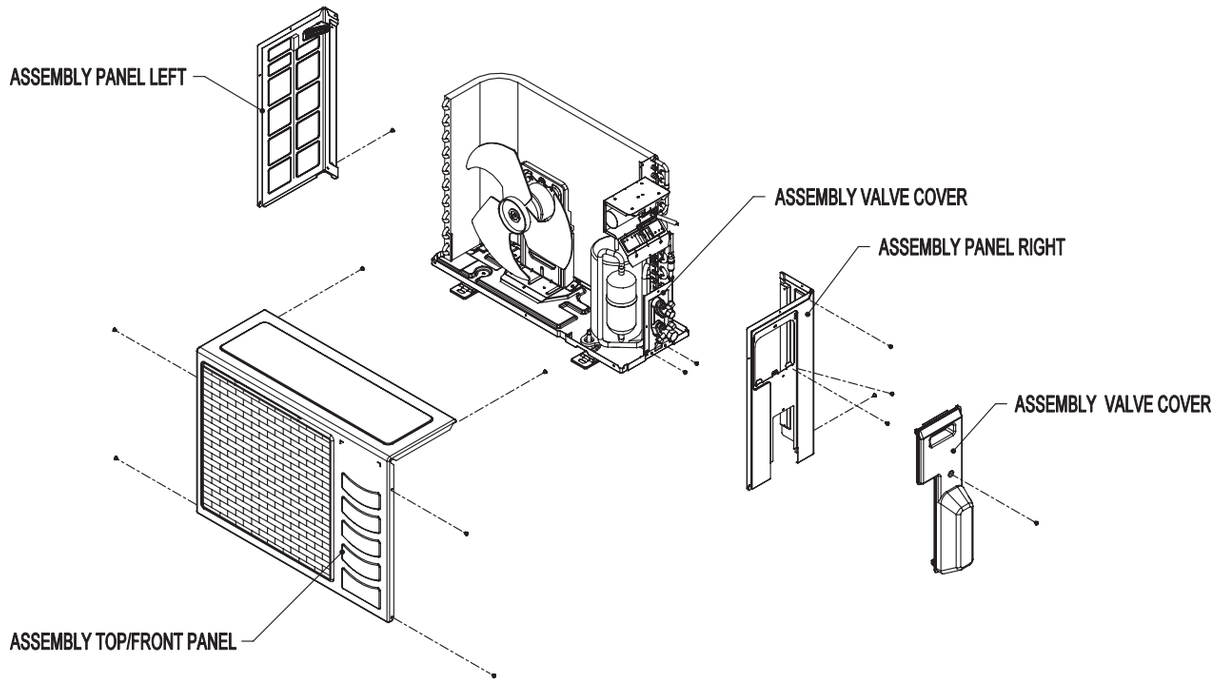
Pre Start Up Maintenance

(After Extended Shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensates drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

Outdoor Models

The design of the RN/RYN/RR/RQ-C/D outdoor series allows servicing to be carried out easily. The removal of the top, front and side panels makes almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once every 3 months. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

⚠ Caution

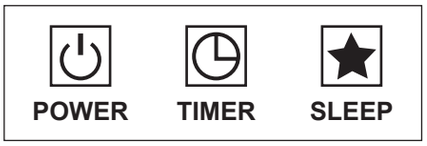
- Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperature and pressure.
- It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

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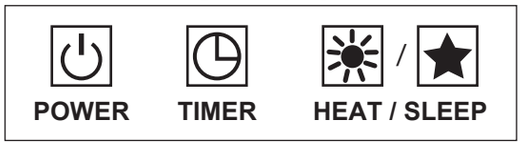
Troubleshooting

Indicator Lights

LED Indicator Light Display - Cooling Only



LED Indicator Light Display - Heatpump



LED Light Diagnostic Table

GREEN	ORANGE	RED	RED	Error Code	Operation / Faulty Indication	Action
○				-	Cooling mode	-
○	○			-	Timer On	-
○		○		-	Sleep mode On	-
○			○	-	Heating mode	-
○			◉	-	Auto Mode in cooling operation	-
○			○	-	Auto Mode in heating operation	-
◉ 1 time				E1	Room air sensor contact loose / short	Check room sensor connection / change room air sensor
◉ 2 times				E2	Indoor coil sensor contact open	Check indoor coil sensor connection / change indoor coil sensor
◉ 3 times				E3	Outdoor coil sensor contact open	Check outdoor coil sensor connection / change outdoor coil sensor
	◉ 1 time			E4	Compressor overload protection / Indoor or Outdoor coil sensor short	If running ampere highly increase, change the compressor. If not, replace the coil sensor.
	◉ 2 times			E6	Pump fault	Clear the clogging at drain pipe. If pump is not working, change the pump.
	◉ 3 times			E5	Gas leak	Top up refrigerant / check for leakage

○ ON ◉ BLINKING

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Phase Sequencer

The unit with Scroll Compressor only can rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

LED / Description	PW (Red)	P_R (Yellow)	P_S (Yellow)	P_T (Yellow)	Actions
Normal Operation	○	●	●	●	-
Reverse Phase	◑	◑	◑	◑	Switch off the unit. Check the 3 phase wiring.
T Phase Missing	◑	●	●	◑	Switch off the unit. Check the 3 phase wiring.
S Phase Missing	◑	●	◑	●	Switch off the unit. Check the 3 phase wiring.
R Phase Missing	●	●	●	●	Switch off the unit. Check the 3 phase wiring.
S & T Phase Missing*	◑	●	◑	◑	Switch off the unit. Check the 3 phase wiring.
Overload*	◑	●	●	●	High discharge temperature. Check refrigerant system.
Sensor Missing*	◑	○	○	○	Switch off the unit. Plug in sensor.

○ ON ● OFF ◑ BLINK

Note:
1. " * " indicates additional function for PP01 phase sequencer.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (COMMON) and 81 (NO) will cut off.
3. The unit will check discharge sensor availability only during power up.
4. All errors can only recover through manually reset.

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Error Code / Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	• Protection against frequent starting. • Wait for 3 or 4 minutes for the compressor to start operating by itself.
3	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating). Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

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Diagnostic Guidelines

By means of pressure readings:

Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air). 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side **Low side**	•				•	1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	•	•				1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side **Low side**				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air).
High side **Low side**				•	•	1. Air intake temperature of indoor unit too high.

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DAIKIN

R410A

TECHNICAL MANUAL

Split Unit Air Conditioner
Ceiling Mounted C & E Series

FLRN-E, FHRN-C, FLQN-E, FHQN-C series

— Cooling only & Heatpump [50Hz] —



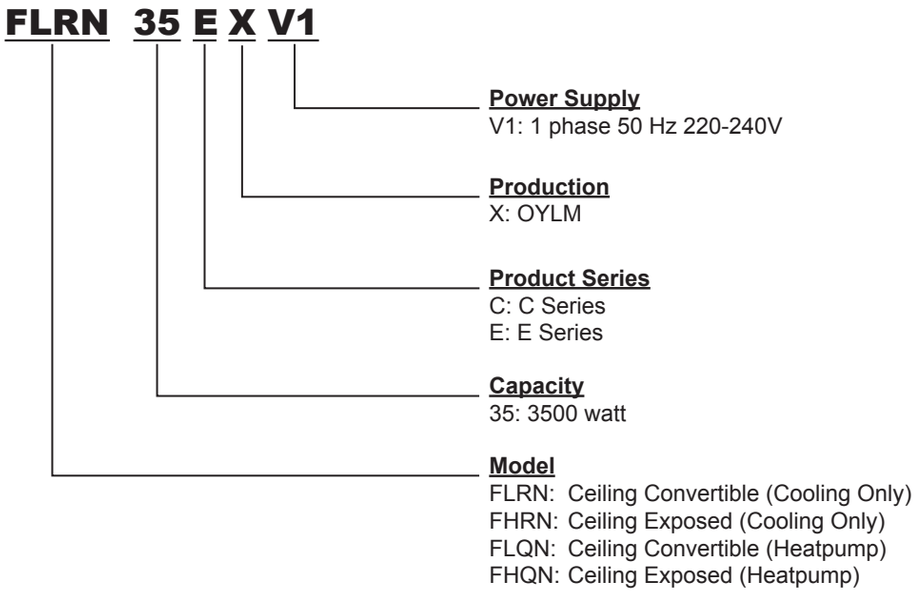
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Nomenclature

Indoor



Power Supply
V1: 1 phase 50 Hz 220-240V

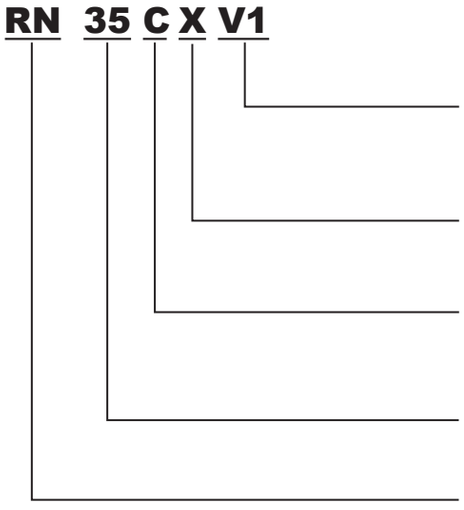
Production
X: OYLM

Product Series
C: C Series
E: E Series

Capacity
35: 3500 watt

Model
FLRN: Ceiling Convertible (Cooling Only)
FHRN: Ceiling Exposed (Cooling Only)
FLQN: Ceiling Convertible (Heatpump)
FHQN: Ceiling Exposed (Heatpump)

Outdoor



Power Supply
V1: 1 phase 50 Hz 220-240V
Y1: 3phase 50 Hz 380-415V

Production
X: OYLM

Product Series
C: C Series
D: D Series

Capacity
35: 3500 watt

Model
RN: Single Split Condensing Unit (Cooling Only, < 1-2.5 HP)
RYN: Single Split Condensing Unit (Heatpump, < 1-2.5 HP)
RR: Single Split Condensing Unit (Cooling Only, > 2.5 HP)
RQ: Single Split Condensing Unit (Heatpump, > 2.5 HP)

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Product Line-Up

Indoor Unit
FL(Y)/FH(Y)

Nomenclature		Classification									
		Handset		PCB		Fin	Refrigerant Control		Air Purification		Others
		BRC52A62	BRC52A61	L208A EC	L208A AP	Hydrophilic (Blue)	Cap tube	W/out Cap tube	Washable Saranet Filter	Ionizer	Convertible
COOLING	FLRN35EXV1	X		X		X		X	X	X	X
	FLRN50EXV1	X		X		X		X	X	X	X
	FLRN60EXV1	X		X		X		X	X	X	X
	FLRN71EXV1	X		X		X		X	X	X	X
	FLRN90EXV1	X		X		X		X	X	X	X
	FLRN100EXV1	X		X		X		X	X	X	X
	FLRN125EXV1	X		X		X		X	X	X	X
	FHRN140CXV1	X		X		X		X	X		
HEATPUMP	FLQN35EXV1		X		X	X		X	X	X	X
	FLQN50EXV1		X		X	X		X	X	X	X
	FLQN60EXV1		X		X	X		X	X	X	X
	FLQN71EXV1		X		X	X		X	X	X	X
	FLQN90EXV1		X		X	X		X	X	X	X
	FLQN100EXV1		X		X	X		X	X	X	X
	FLQN125EXV1		X		X	X		X	X	X	X
	FHQN140CXV1		X		X	X	X		X		

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Outdoor Unit
R(Y)

Nomenclature		Classification												
		Refrigerant Control		Fin			Safety Devices				Compressor		Others	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow	
COOLING	RN35CXV1	X				X						X		
	RN35CGXV1	X			X							X		
	RN50CXV1	X				X						X		
	RN50CGXV1	X			X							X		
	RN50CXY1	X				X	X			X		X		
	RN50CGXY1	X			X		X			X		X		
	RN60CXV1	X				X						X		
	RN60CGXV1	X			X							X		
	RN60CXY1	X				X	X			X		X		
	RN60CGXY1	X			X		X			X		X		
	RR71CXV1	X				X						X		
	RR71CGXV1	X			X							X		
	RR71CXY1	X				X	X			X		X		
	RR71CGXY1	X			X		X			X		X		
	RR90DXV1	X				X		X	X		X			
	RR90DGXV1	X			X			X	X		X			
	RR90DXY1	X				X	X	X	X	X	X			
	RR90DGXY1	X			X		X	X	X	X	X			
	RR100DXV1	X				X		X	X		X			
	RR100DGXV1	X			X			X	X		X			
	RR100DXY1	X				X	X	X	X	X	X			
	RR100DGXY1	X			X		X	X	X	X	X			
	RR125DXY1	X				X	X	X	X	X	X			
	RR125DGXY1	X			X		X	X	X	X	X			
	RR140DXY1	X				X	X	X	X	X	X			
	RR140DGXY1	X			X		X	X	X	X	X			

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Nomenclature		Classification												
		Refrigerant Control		Fin			Safety Devices				Compressor		Others	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow
HEATPUMP	RYN35CXV1	X				X						X	X
	RYN35CGXV1	X			X							X	X
	RYN50CXV1	X				X						X	X
	RYN50CGXV1	X			X							X	X
	RYN50CXY1	X				X	X			X		X	X
	RYN50CGXY1	X			X		X			X		X	X
	RYN60CXV1	X				X						X	X
	RYN60CGXV1	X			X							X	X
	RYN60CXY1	X				X	X			X		X	X
	RYN60CGXY1	X			X		X			X		X	X
	RQ71CXV1	X				X						X	X
	RQ71CGXV1	X			X							X	X
	RQ71CXY1	X				X	X			X		X	X
	RQ71CGXY1	X			X		X			X		X	X
	RQ90DXV1	X				X		X	X		X		X
	RQ90DGXV1	X			X			X	X		X		X
	RQ90DXY1	X				X	X	X	X	X	X		X
	RQ90DGXY1	X			X		X	X	X	X	X		X
	RQ100DXV1	X				X		X	X		X		X
	RQ100DGXV1	X			X			X	X		X		X
	RQ100DXY1	X				X	X	X	X	X	X		X
	RQ100DGXY1	X			X		X	X	X	X	X		X
	RQ125DXY1	X				X	X	X	X	X	X		X
	RQ125DGXY1	X			X		X	X	X	X	X		X
	RQ140DXY1	X				X	X	X	X	X	X		X
	RQ140DGXY1	X			X		X	X	X	X	X		X

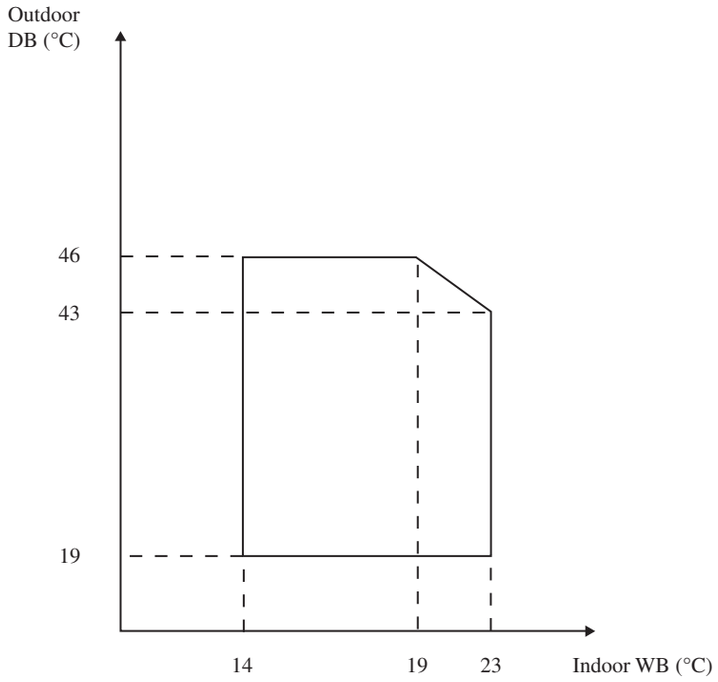
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Application Information

Operating Range

Ensure the operating temperature is in allowance range.

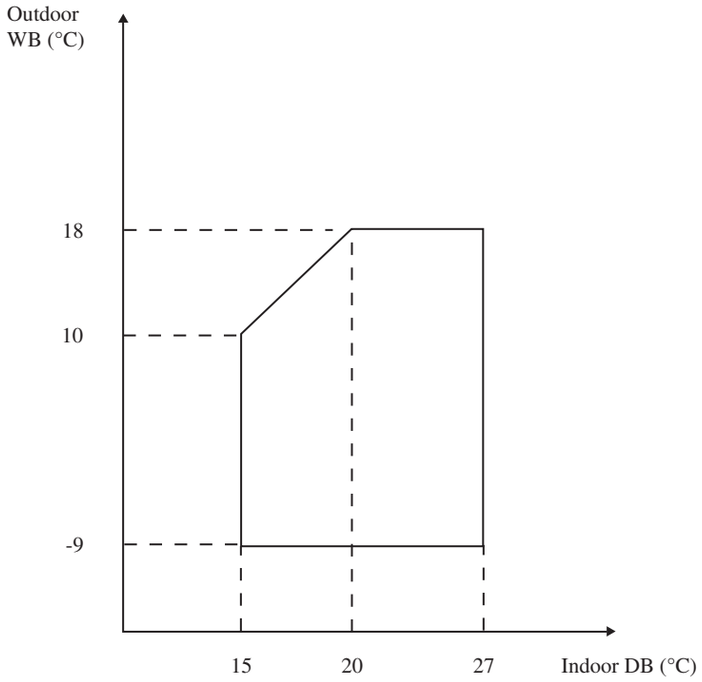
Cooling



⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heating



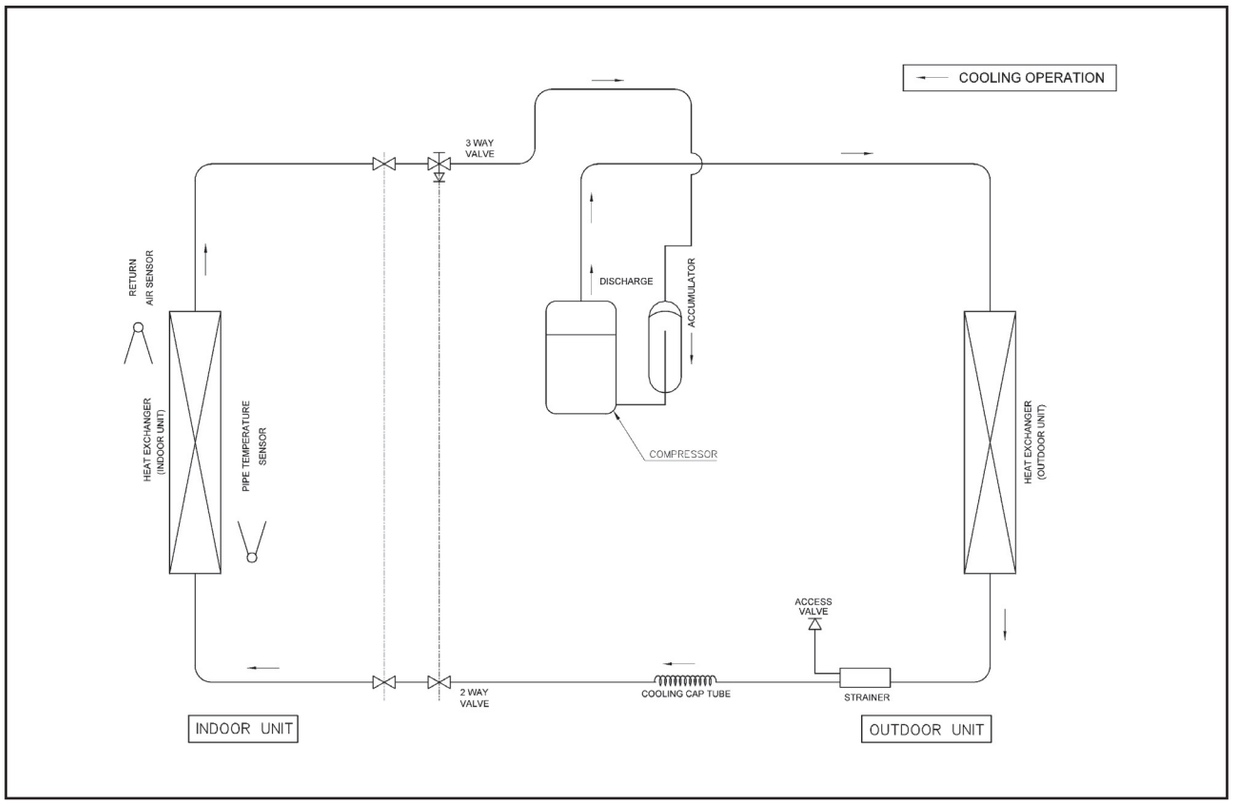
⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

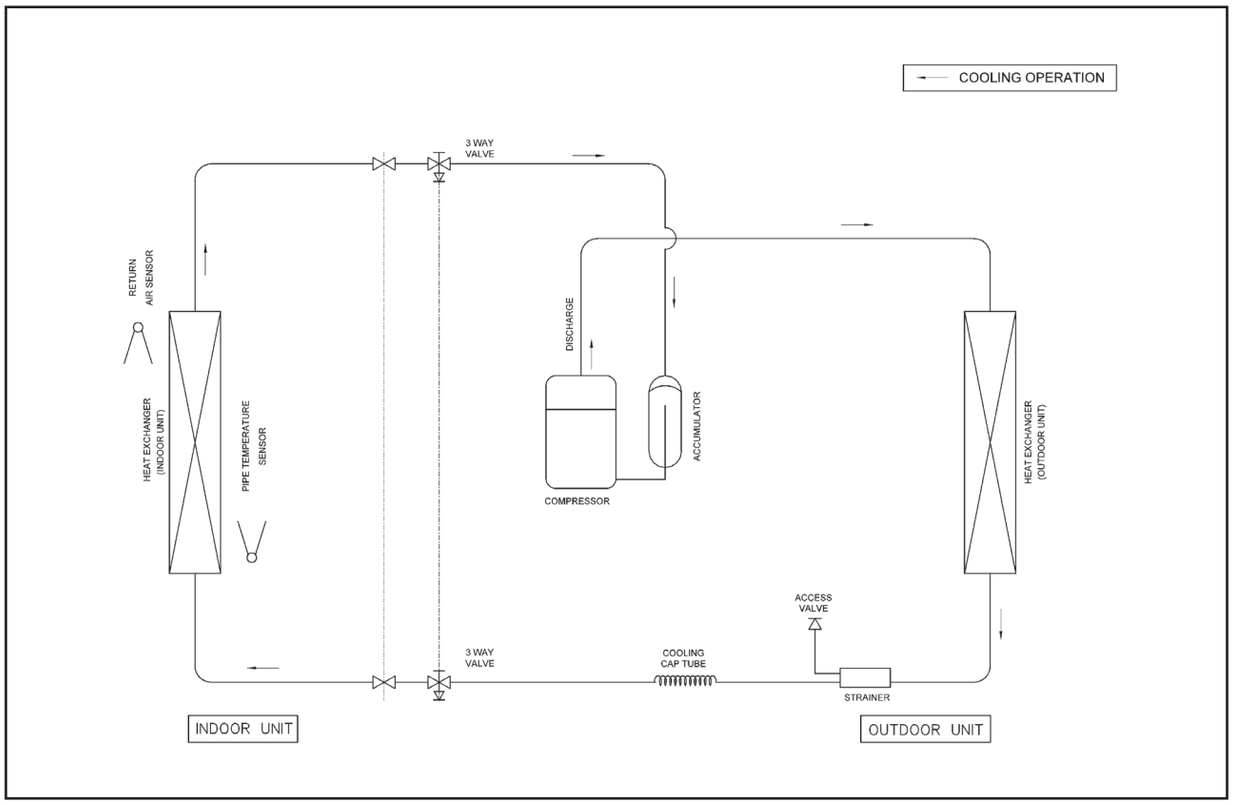
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Refrigerant Circuit Diagrams

Model: FLRN35EXV1-RN35CXV1 / FLRN50EXV1-RN50CXV1 / FLRN50EXV1-RN50CXY1 / FLRN60EXV1-RN60CXV1 / FLRN60EXV1-RN60CXY1

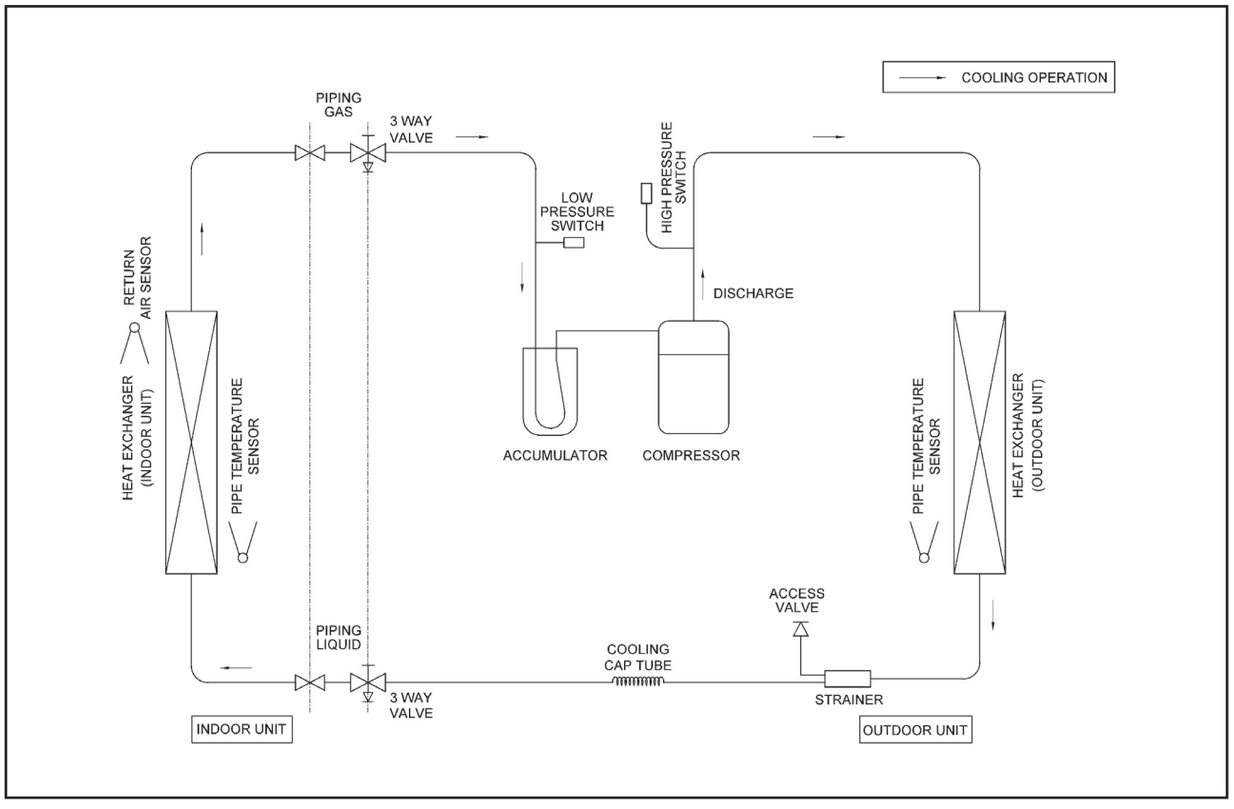


Model: FLRN71EXV1-RR71CXV1 / FLRN71EXV1-RR71CXY1

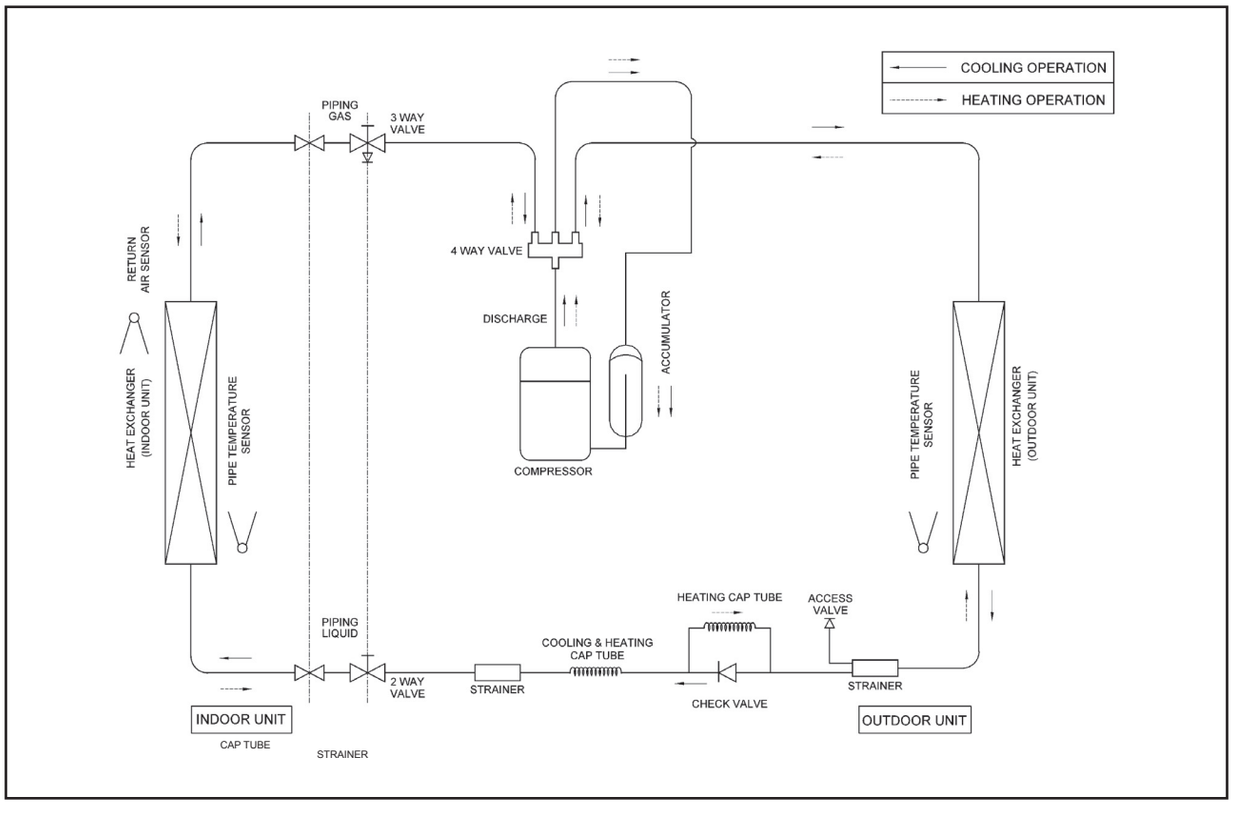


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Model: FLRN90EXV1-RR90DXV1 / FLRN90EXV1-RR90DXY1 / FLRN100EXV1-RR100DXV1 / FLRN100EXV1-RR100DXY1 / FLRN125EXV1-RR125DXY1 / FHRN140CXV1-RR140DXY1

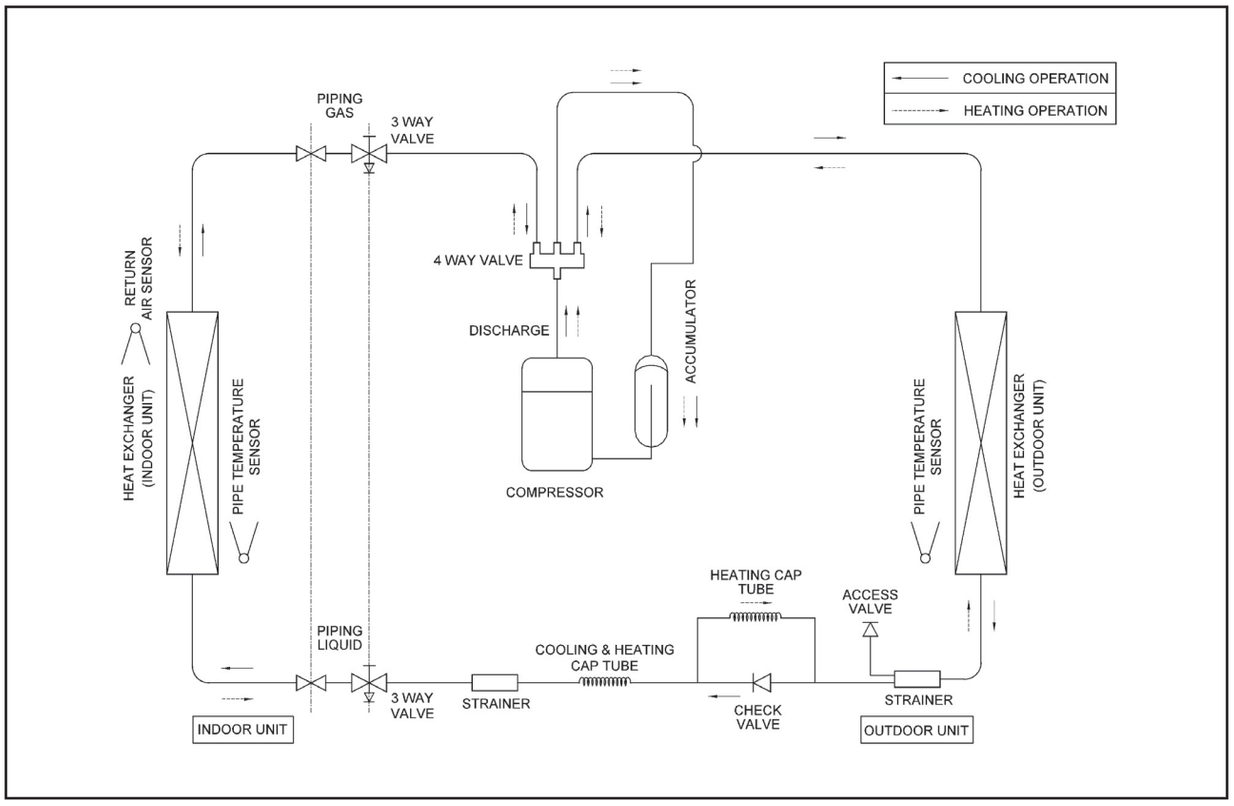


Model: FLQN35EXV1-RYN35CXV1 / FLQN50EXV1-RYN50CXV1 / FLQN50EXV1-RYN50CXY1 / FLQN60EXV1-RYN60CXV1 / FLQN60EXV1-RYN60CXY1

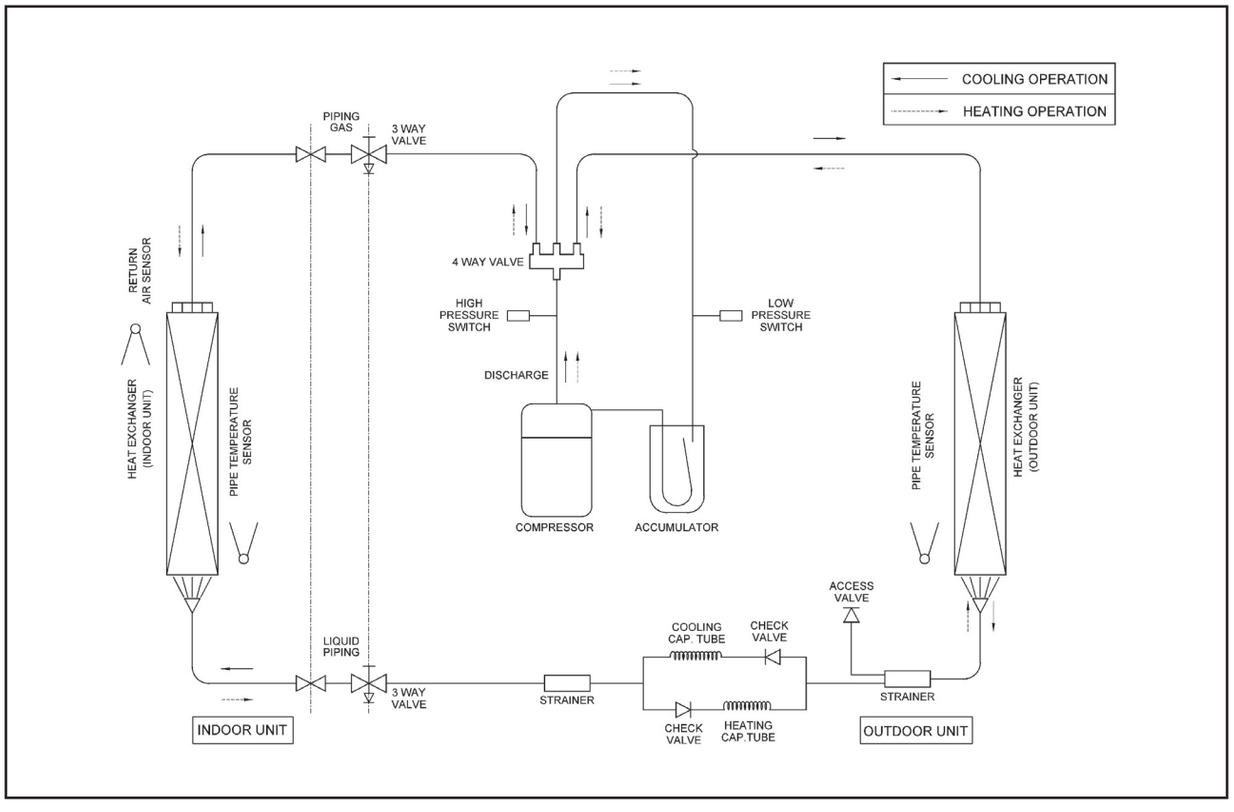


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Model: FLQN71EXV1-RQ71CXV1 / FLQN71EXV1-RQ71CXY1



Model: FLQN90EXV1-RQ90DXV1 / FLQN90EXV1-RQ90DXY1 / FLQN100EXV1-RQ100DXV1 / FLQN100EXV1-RQ100DXY1 / FLQN125EXV1-RQ125DXY1 / FHQN140CXV1-RQ140DXY1



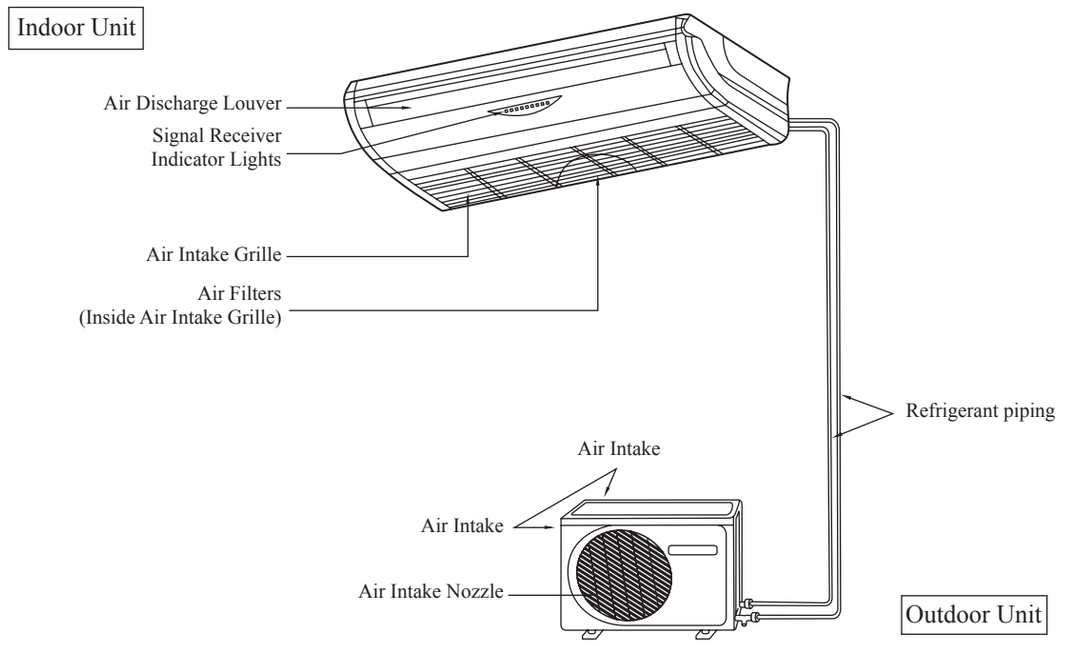
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Installation Guideline

⚠ Caution

Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.

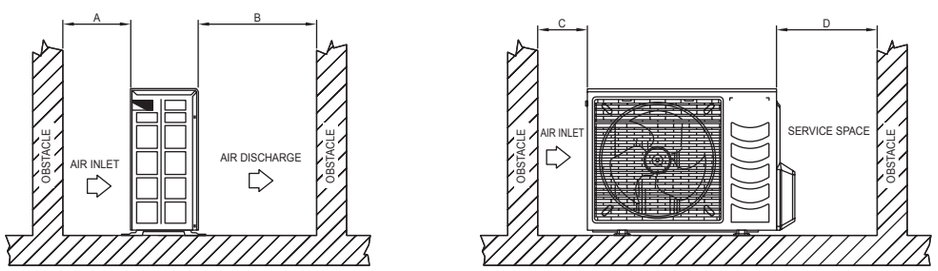
Installation Diagram



Outdoor Clearance

⚠ Caution

If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such as substances may lead to failure of the unit.



ALL MODELS	A	B	C	D
Minimum Distance	300 mm	1000 mm	300 mm	500 mm

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Cable Size

Model	Unit	FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
		RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Power supply cable size Number of wire	mm^2	2.5 3	2.5 3	1.5 5	2.5 3	1.5 5
Interconnection cable size Number of wire	mm^2	2.5 3	2.5 3	1.0 4	2.5 3	1.0 4
Recommended fuse	A	16	16	6	20	6

Model	Unit	FLRN71EXV1		FLRN90EXV1		FLRN100EXV1	
		RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1	RR100DXV1	RR100DXY1
Power supply cable size Number of wire	mm^2	2.5 3	1.5 5	4 3	1.5 5	4 3	2.5 5
Interconnection cable size Number of wire	mm^2	2.5 3	1.0 4	1.5 4	1.5 4	1.5 4	1.5 4
Recommended fuse	A	20	8	30	10	30	13

Model	Unit	FLRN125EXV1	FHRN140CXV1	FLQN35EXV1	FLQN50EXV1	
		RR125DXY1	RR140DXY1	RYN35CXV1	RYN50CXV1	RYN50CXY1
Power supply cable size Number of wire	mm^2	2.5 5	2.5 5	2.5 3	2.5 3	1.5 5
Interconnection cable size Number of wire	mm^2	1.5 4	1.5 4	2.5 5	2.5 5	1.0 6
Recommended fuse	A	13	16	16	16	6

Model	Unit	FLQN60EXV1		FLQN71EXV1	
		RYN60CXV1	RYN60CXY1	RQ71CXV1	RQ71CXY1
Power supply cable size Number of wire	mm^2	2.5 3	1.5 5	2.5 3	1.5 5
Interconnection cable size Number of wire	mm^2	2.5 5	1.0 6	2.5 5	1.0 6
Recommended fuse	A	20	6	20	8

Model	Unit	FLQN90EXV1		FLQN100EXV1	
		RQ90DXV1	RQ90DXY1	RQ100DXV1	RQ100DXY1
Power supply cable size Number of wire	mm^2	4 3	1.5 5	4 3	2.5 5
Interconnection cable size Number of wire	mm^2	1.5 4 & 3	1.5 4 & 3	1.5 4 & 3	1.5 4 & 3
Recommended fuse	A	30	10	30	13

Model	Unit	FLQN125EXV1	FHQN140CXV1
		RQ125DXY1	RQ140DXY1
Power supply cable size Number of wire	mm^2	2.5 5	2.5 5
Interconnection cable size Number of wire	mm^2	1.5 4 & 3	1.5 4 & 3
Recommended fuse	A	13	16

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Refrigerant Piping

If the pipe length is too long, both the capacity and the reliability of the unit will decrease. As the number of bends increases, resistance of the piping system to the refrigerant flow increases and thus lowering the capacity, as a result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated as below

Model	Indoor	FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
	Outdoor	RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Max. Length, m		12	15	15	15	15
Max. Elevation, m		5	8	8	8	8

Model	Indoor	FLRN71EXV1		FLRN90EXV1	
	Outdoor	RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1
Max. Length, m		15	15	45	45
Max. Elevation, m		8	8	25	25

Model	Indoor	FLRN100EXV1		FLRN125EXV1	FHRN140CXV1
	Outdoor	RR100DXV1	RR100DXY1	RR125DXY1	RR140DXY1
Max. Length, m		45	45	45	35
Max. Elevation, m		25	25	25	15

Model	Indoor	FLQN35EXV1	FLQN50EXV1		FLQN60EXV1	
	Outdoor	RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
Max. Length, m		12	15	15	15	15
Max. Elevation, m		5	8	8	8	8

Model	Indoor	FLQN71EXV1		FLQN90EXV1	
	Outdoor	RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1
Max. Length, m		15	15	45	45
Max. Elevation, m		8	8	25	25

Model	Indoor	FLQN100EXV1		FLQN125EXV1	FHQN140CXV1
	Outdoor	RQ100DXV1	RQ100DXY1	RQ125DXY1	RQ140DXY1
Max. Length, m		45	45	45	35
Max. Elevation, m		25	25	25	15

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Piping sizes (flare connection type) are as follows:

R410A

Model	RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Liquid, mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
Gas, mm / in	12.70 / 1/2	12.70 / 1/2	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8

Model	RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1	RR100DXV1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8	15.88 / 5/8”	15.88 / 5/8	15.88 / 5/8”	15.88 / 5/8

Model	RR100DXY1	RR125DXY1	RR140DXY1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8”	15.88 / 5/8”	19.05 / 3/4”

Model	RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
Liquid, mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
Gas, mm / in	12.70 / 1/2	12.70 / 1/2	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8

Model	RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1	RQ100DXV1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8	15.88 / 5/8”	15.88 / 5/8	15.88 / 5/8”	15.88 / 5/8

Model	RQ100DXY1	RQ125DXY1	RQ140DXY1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8”	15.88 / 5/8”	19.05 / 3/4”

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Additional Charge

The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.6m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.6m, then use the additional charge (g) per additional 1m length as tabulated:

R410A - Cooling Only

Indoor	FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
Outdoor	RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Add. Charge, g/m	9	10	10	10	10

Indoor	FLRN71EXV1		FLRN90EXV1	
Outdoor	RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1
Add. Charge, g/m	24	24	26	26

Indoor	FLRN100EXV1		FLRN125EXV1	FHRN140CXV1
Outdoor	RR100DXV1	RR100DXY1	RR125DXY1	RR140DXY1
Add. Charge, g/m	24	24	24	21

R410A – Heatpump

Indoor	FLQN35EXV1	FLQN50EXV1		FLQN60EXV1	
Outdoor	RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
Add. Charge, g/m	18	17	17	10	10

Indoor	FLQN71EXV1		FLQN90EXV1	
Outdoor	RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1
Add. Charge, g/m	39	39	27	27

Indoor	FLQN100EXV1		FLQN125EXV1	FHQN140CXV1
Outdoor	RQ100DXV1	RQ100DXY1	RQ125DXY1	RQ140DXY1
Add. Charge, g/m	39	39	38	36

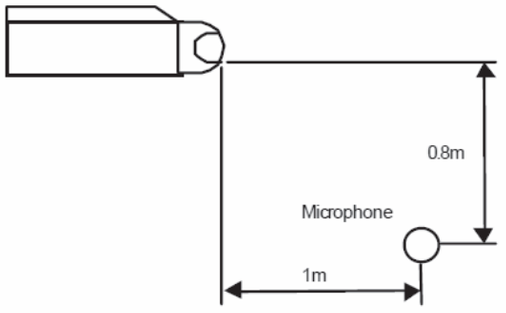
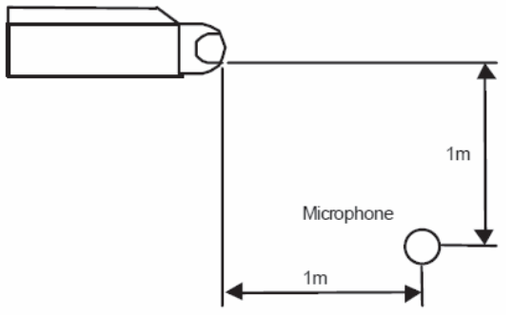
Note: Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

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Sound Data

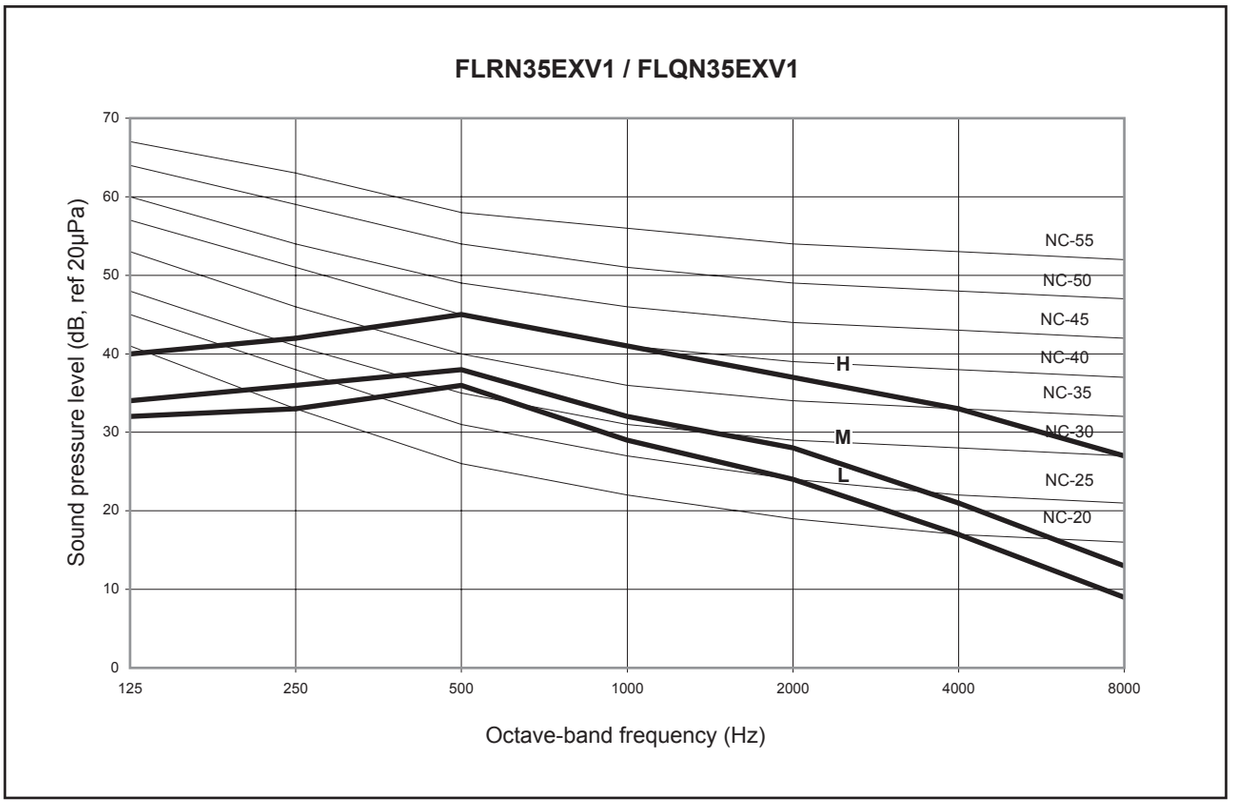
Sound Pressure Level

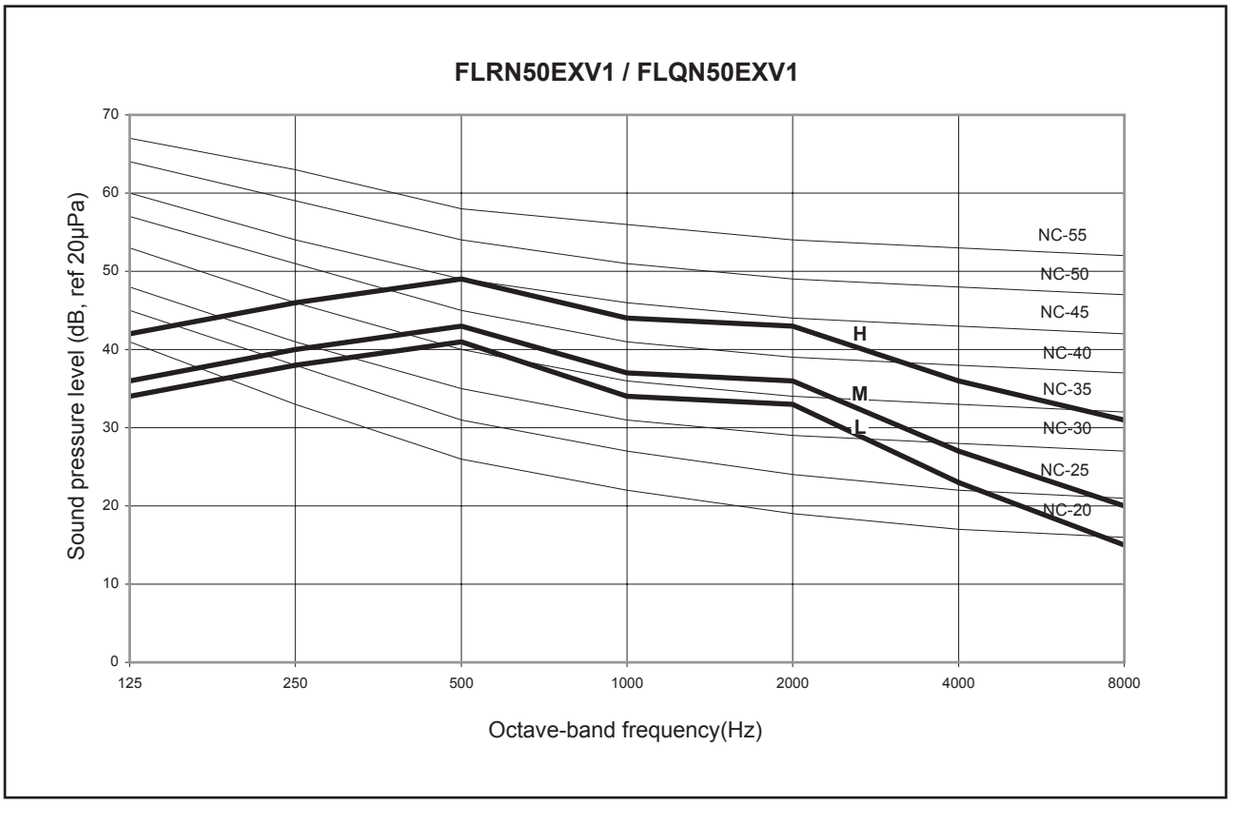
Model	Speed	1/1 Octave Sound Pressure (dB, ref 20µPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FLRN35EXV1 / FLQN35EXV1	High	40	42	45	41	37	33	27	48	40
	Med	34	36	38	32	28	21	13	43	33
	Low	32	33	36	29	24	17	9	41	31
FLRN50EXV1 / FLQN50EXV1	High	42	46	49	44	43	36	31	48	45
	Med	36	40	43	37	36	27	20	46	38
	Low	34	38	41	34	33	23	15	43	36
FLRN60EXV1 / FLQN60EXV1	High	45	47	51	48	47	40	34	50	48
	Med	43	46	49	46	44	37	31	47	45
	Low	42	46	47	44	42	35	27	46	43
FLRN71EXV1 / FLQN71EXV1	High	47	50	53	50	50	43	39	56	51
	Med	44	46	49	46	45	38	33	51	46
	Low	38	40	43	38	37	28	22	44	38
FLRN90EXV1 / FLQN90EXV1	High	45	51	49	54	51	45	37	48	53
	Med	44	49	48	52	49	43	36	47	51
	Low	40	44	43	47	45	36	29	44	46
FLRN100EXV1 / FLQN100EXV1	High	49	52	52	55	53	47	42	52	54
	Med	49	51	50	54	51	44	39	47	53
	Low	49	46	46	49	46	38	32	46	48
FLRN125EXV1 / FLQN125EXV1	High	47	50	48	47	44	40	30	52	46
	Med	45	48	47	45	43	38	28	50	44
	Low	44	47	46	44	41	37	28	49	43
FHRN140CXV1 / FHQN140CXV1	High	34	45	49	52	49	44	37	56	51
	Med	32	43	46	49	46	41	33	53	48
	Low	26	36	40	42	38	32	24	46	41

Model	Measuring Location
FLRN35EXV1 **FLRN50EXV1** **FLRN60EXV1** **FLRN71EXV1** **FLQN35EXV1** **FLQN50EXV1** **FLQN60EXV1** **FLQN71EXV1**	 Standard: JIS C 9612
FLRN90EXV1 **FLRN100EXV1** **FLRN125EXV1** **FHRN140CXV1** **FLQN90EXV1** **FLQN100EXV1** **FLQN125EXV1** **FHQN140CXV1**	 Standard: JIS B 8616

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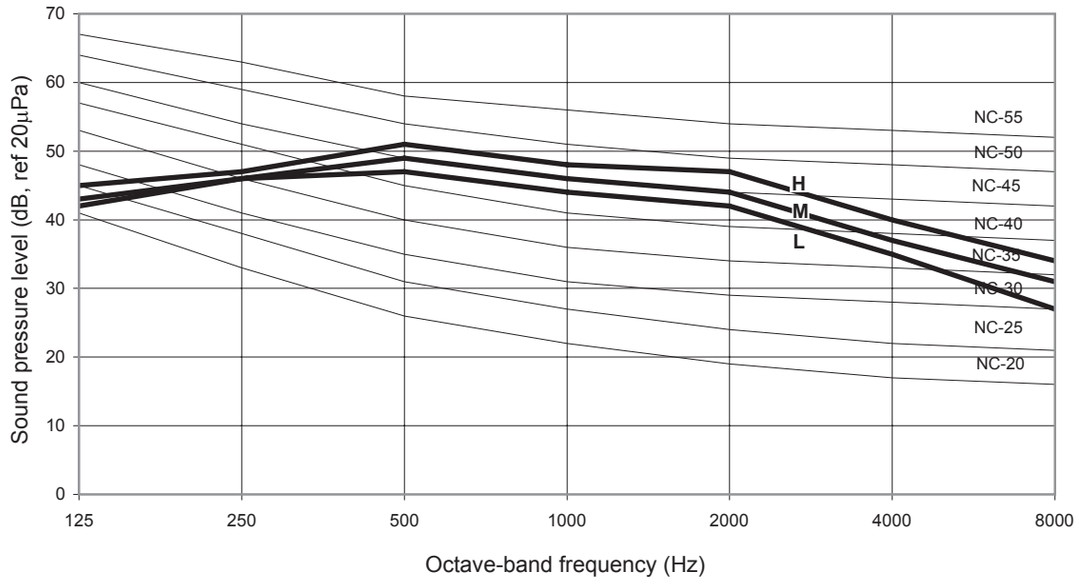
NC Curve



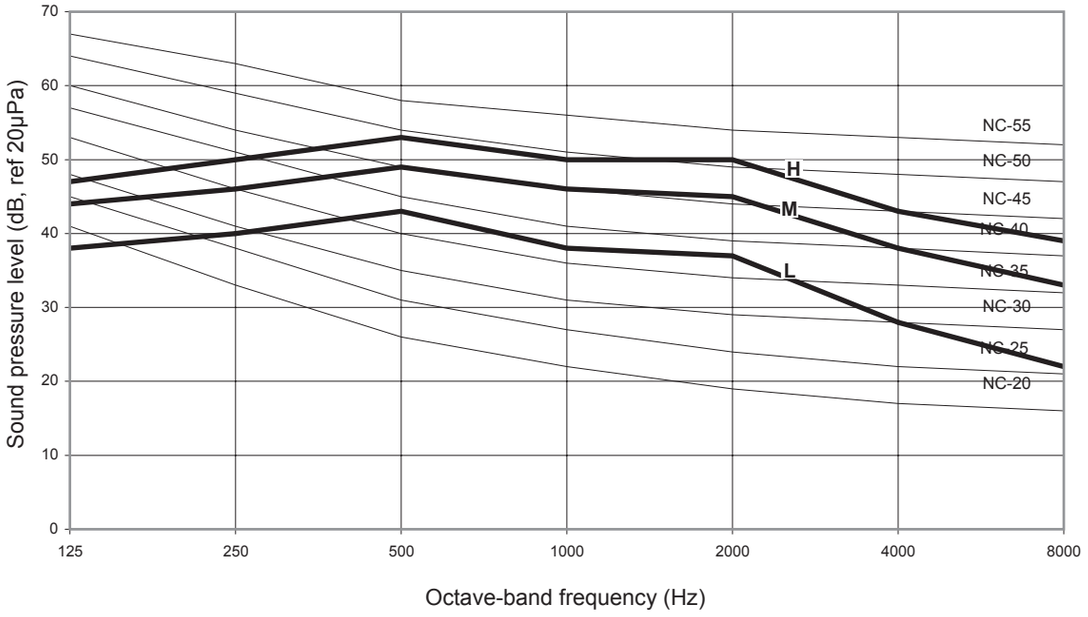


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FLRN60EXV1 / FLQN60EXV1

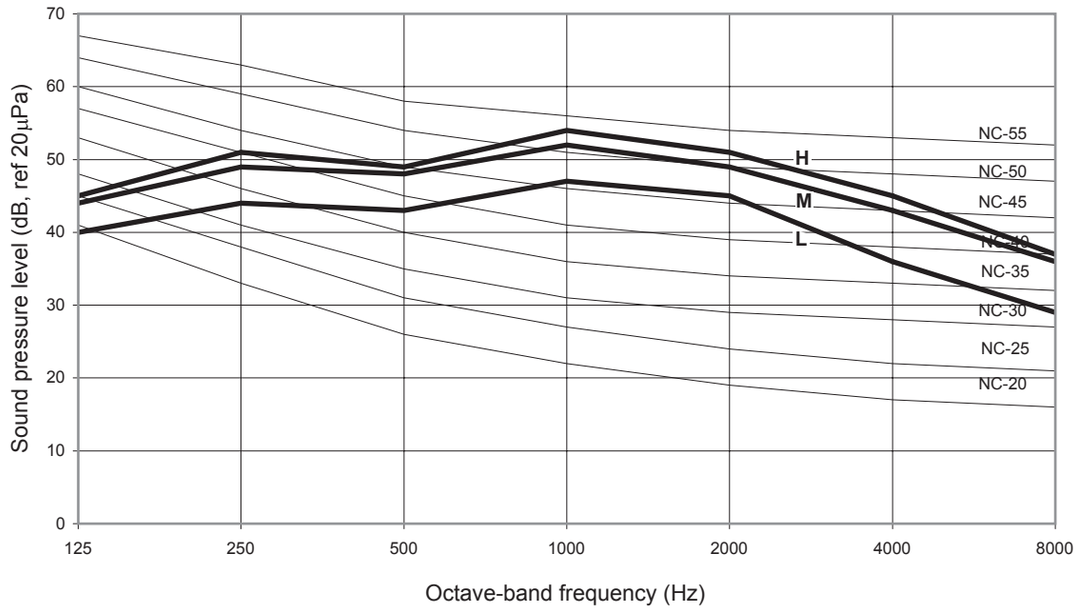


FLRN71EXV1 / FLQN71EXV1

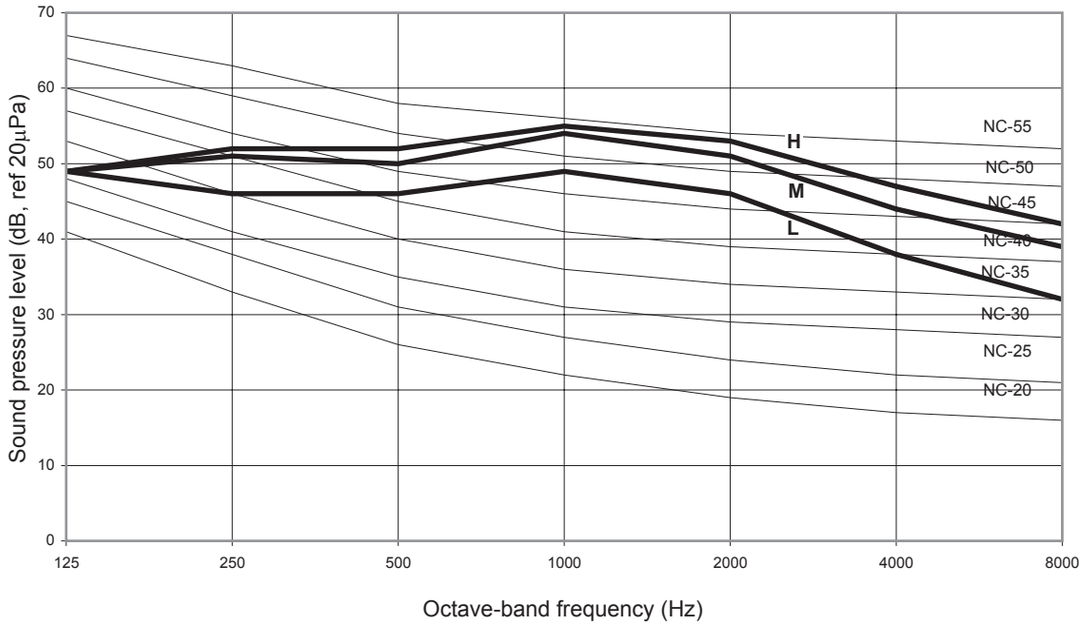


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FLRN90EXV1 / FLQN90EXV1

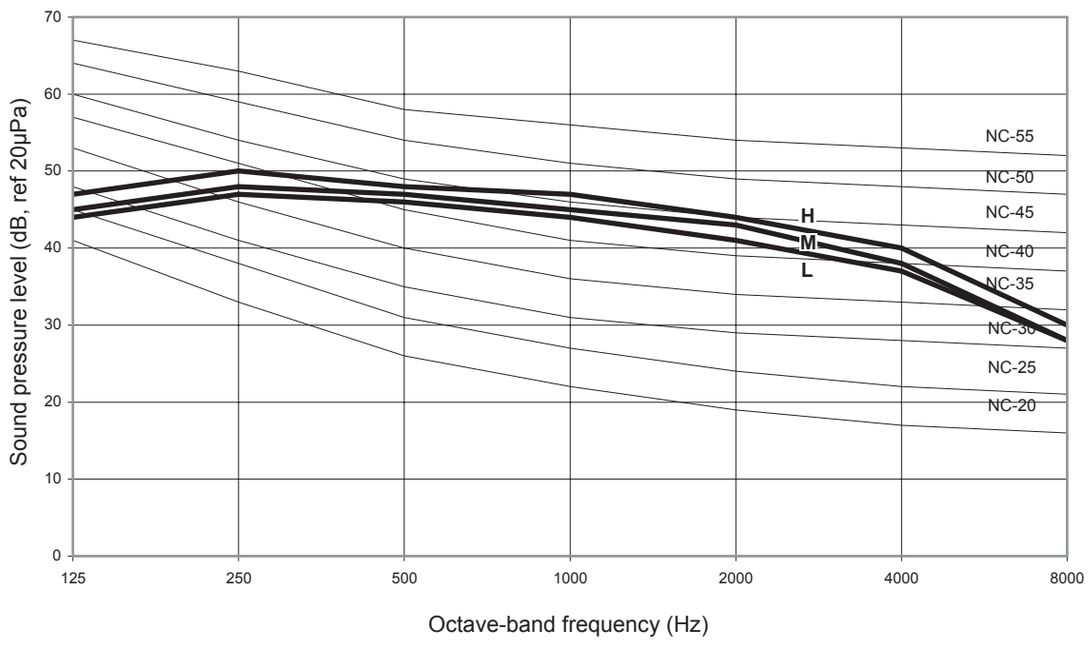


FLRN100EXV1 / FLQN100EXV1

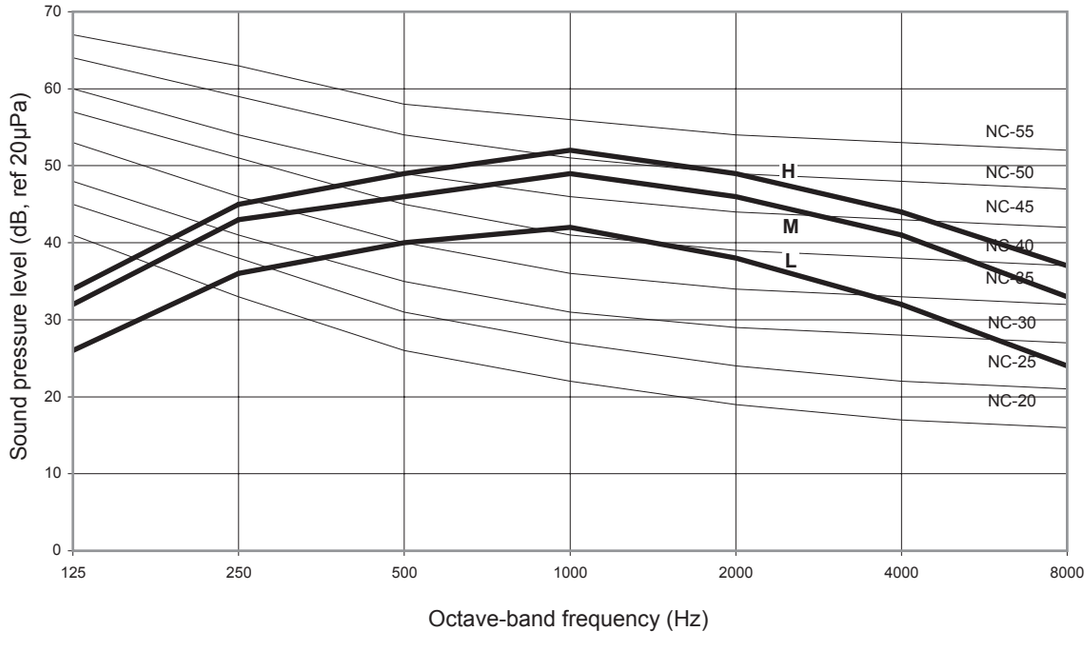


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FLRN125EXV1 / FLQN125EXV1



FHRN140CXV1 / FHQN140CXV1



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Engineering & Physical Data

Engineering Data - R410A MODEL

MODEL	INDOOR UNIT			FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
	OUTDOOR UNIT			RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
NOMINAL COOLING CAPACITY			Btu/h	12900	17500	18100	20000	22860
			W	3780	5130	5300	5860	6700
NOMINAL TOTAL INPUT POWER (COOLING)			W	1280	1723	1757	1973	2231
NOMINAL RUNNING CURRENT (COOLING)			A	6.00	7.60	3.35	8.80	4.15
EER			W/W	2.95	2.98	3.02	2.97	3.00
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE				
REFRIGERANT CHARGE			kg	0.825	1.375	1.375	1.540	1.460
MODEL	INDOOR UNIT			FLQN35EXV1	FLQN50EXV1		FLQN60EXV1	
	OUTDOOR UNIT			RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
NOMINAL COOLING CAPACITY			Btu/h	12900	17500	18100	20000	22860
			W	3780	5130	5300	5860	6700
NOMINAL HEATING CAPACITY			Btu/h	11800	18500	18770	22000	23200
			W	3460	5420	5500	6450	6800
NOMINAL TOTAL INPUT POWER (COOLING)			W	1280	1723	1757	1973	2231
NOMINAL TOTAL INPUT POWER (HEATING)			W	1130	1493	1527	2003	2124
NOMINAL RUNNING CURRENT (COOLING)			A	6.00	7.60	3.35	8.80	4.15
NOMINAL RUNNING CURRENT (HEATING)			A	5.10	6.60	2.85	9.00	3.90
EER			W/W	2.95	2.98	3.02	2.97	3.00
COP			W/W	3.06	3.63	3.60	3.22	3.20
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE				
REFRIGERANT CHARGE			kg	0.825	1.375	1.375	1.540	1.460
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	220-240 / 1 / 50	380-415 / 3 / 50
REFRIGERANT TYPE				R410A				
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)				
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL				
	AIR FLOW	HIGH	l/s / CFM	240 / 508	245 / 520		374 / 580	
		MEDIUM	l/s / CFM	182 / 386	217 / 460		250 / 530	
		LOW	l/s / CFM	165 / 350	192 / 406		231 / 490	
	EXTERNAL STATIC PRESSURE		Pa (in.wg.)	0				
	SOUND PRESSURE LEVEL (H/M/L)		dBA	48 / 43 / 41	48 / 46 / 43		50 / 47 / 46	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	218 x 1080 x 630				
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	297 x 1197 x 740				
	UNIT WEIGHT		kg	24				
	CONDENSATE DRAIN SIZE		mm	19.1				
	FAN	TYPE		BLOWER WHEEL				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		20				
		INSULATION GRADE		B				
		RATED INPUT POWER	W	84	86		135	
		RATED RUNNING CURRENT	A	0.37	0.38		0.67	
		MOTOR OUTPUT	W	40	50		65	
		POLES		4				
	COIL	TUBE	MATERIAL	COPPER				
			DIAMETER mm	7.00				
		FIN	MATERIAL	ALUMINIUM				
			FACE AREA m2	0.27				
			ROW	2	3		3	
	AIR QUALITY	FILTER	TYPE	SARANET				
			QUANTITY pc	2				
	CASING		COLOUR	LIGHT GREY				
OUTDOOR UNIT	AIR FLOW		l/s / CFM	453 / 960	614 / 1300	614 / 1300	689/1460	689/1460
	SOUND PRESSURE LEVEL		dBA	49	52	52	52	52
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	540 x 700 x 250	651 x 855 x 328	651 x 855 x 328	753 x 855 x 328	753 x 855 x 328
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	620 x 810 x 330	710 x 990 x 415	710 x 990 x 415	810 x 990 x 415	810 x 990 x 415
	UNIT WEIGHT		kg	30	47	47	50	50
	PIPE CONNECTION	TYPE		FLARE VALVE				
		SIZE LIQUID	mm	6.35	6.35	6.35	6.35	6.35
		SIZE GAS	mm	12.70	12.70	12.70	15.88	15.88
	FAN	TYPE		PROPPELER				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		22	23	23	23	23
		INSULATION GRADE		B	F	F	F	F
		RATED INPUT POWER	W	70	80	80	97	97
		RATED RUNNING CURRENT	A	0.31	0.36	0.36	0.43	0.43
		MOTOR OUTPUT	W	35	42	42	64	64
		POLES		6	6	6	6	6
	COMPRESSOR	TYPE		ROTARY				
		OIL TYPE		RB68A or FREOL ALPHA68M				
		OIL AMOUNT	cm3	430	670	670	1130	1130
		RATED INPUT POWER (COOLING)	W	1126	1557	1591	1741	1999
		RATED INPUT POWER (HEATING)	W	976	1327	1361	1771	1892
		RATED RUNNING CURRENT (COOLING)	A	5.32	6.86	3.10	7.70	3.78
		RATED RUNNING CURRENT (HEATING)	A	4.42	5.86	2.60	7.90	3.53
		LOCKED ROTOR AMP.	A	24	26	19	63	26
	COIL	TUBE	MATERIAL	COPPER				
			DIAMETER mm	7.00				
		FIN	MATERIAL	ALUMINIUM				
			FACE AREA m2	0.36	0.51	0.51	0.62	0.62
			ROW	1	2	2	2	2
	CASING		COLOUR	LIGHT GREY				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

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Engineering Data - R410A MODEL

MODEL	INDOOR UNIT			FLRN71EXV1		FLRN90EXV1	
	OUTDOOR UNIT			RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1
NOMINAL COOLING CAPACITY			Btu/h	28000	28000	31000	31000
			W	7900	7620	9000	9000
NOMINAL TOTAL INPUT POWER (COOLING)			W	2754	2715	2850	2700
NOMINAL RUNNING CURRENT (COOLING)			A	13.3	4.60	14.2	5.20
EER			W/W	2.87	2.81	3.16	3.33
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE			
REFRIGERANT CHARGE			kg	1.80	1.80	2.60	2.60
MODEL	INDOOR UNIT			FLQN71EXV1		FLQN90EXV1	
	OUTDOOR UNIT			RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1
NOMINAL COOLING CAPACITY			Btu/h	27000	26000	31000	31000
			W	7900	7620	9000	9000
NOMINAL HEATING CAPACITY			Btu/h	27500	26500	32000	33900
			W	8050	7770	9360	9900
NOMINAL TOTAL INPUT POWER (COOLING)			W	2754	2715	2850	2700
NOMINAL TOTAL INPUT POWER (HEATING)			W	2455	2378	2820	2750
NOMINAL RUNNING CURRENT (COOLING)			A	13.3	4.60	14.2	5.20
NOMINAL RUNNING CURRENT (HEATING)			A	12.2	4.25	13.9	5.30
EER			W/W	2.87	2.81	3.16	3.33
COP			W/W	3.28	3.27	3.32	3.60
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE			
REFRIGERANT CHARGE			kg	1.80	2.15	2.60	2.60
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50	380-415 / 3 / 50	220-240 / 1 / 50	380-415 / 3 / 50
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL			
	AIR FLOW	HIGH	l/s / CFM	302 / 640		400 / 840	
		MEDIUM	l/s / CFM	264 / 560		360 / 753	
		LOW	l/s / CFM	217 / 460		320 / 669	
	EXTERNAL STATIC PRESSURE		Pa (in.wg.)	0			
	SOUND PRESSURE LEVEL (H/M/L)		dBA	56 / 51 / 44		48 / 47 / 44	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	218 x 1080 x 630		260 x 1320 x 634	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	297 x 1197 x 740		352 x 1401 x 734	
	UNIT WEIGHT		kg	24		38	
	CONDENSATE DRAIN SIZE		mm	19.1			
	FAN	TYPE		BLOWER WHEEL			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		20			
		INSULATION GRADE		B			
		RATED INPUT POWER	W	160		165	
		RATED RUNNING CURRENT	A	0.79		0.73	
		MOTOR OUTPUT	W	70		92	
		POLES		4			
	COIL	TUBE	MATERIAL	COPPER			
			DIAMETER mm	7.00			
		FIN	MATERIAL	ALUMINIUM			
			FACE AREA m2	0.27			
			ROW	3			
	AIR QUALITY	FILTER	TYPE	SARANET			
			QUANTITY pc	2			
	CASING		COLOUR	LIGHT GREY			
OUTDOOR UNIT	AIR FLOW		l/s / CFM	684 / 1450	684 / 1450	1605 / 3400	1605 / 3400
	SOUND PRESSURE LEVEL		dBA	58	58	58	58
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	753 x 855 x 328	753 x 855 x 328	852 x 1030 x 400	852 x 1030 x 400
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	810 X 990 x 415	810 X 990 x 415	1010 x 1180 x 514	1010 x 1180 x 514
	UNIT WEIGHT		kg	57	57	86	86
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE LIQUID	mm	9.52	9.52	9.52	9.52
		SIZE GAS	mm	15.88	15.88	15.88	15.88
	FAN	TYPE		PROPPELER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		23	23	N/A	N/A
		INSULATION GRADE		F	F	B	B
		RATED INPUT POWER	W	124	124	257	257
		RATED RUNNING CURRENT	A	0.79	0.79	0.73	0.73
		MOTOR OUTPUT	W	75	75	145	145
		POLES		6	6	8	8
	COMPRESSOR	TYPE		ROTARY		SCROLL	
		OIL TYPE		RB68A or FREOL ALPHA68M		MOBIL EAL ARCTIC 22CC	
		OIL AMOUNT	cm3	1242	1242	1242	1242
		RATED INPUT POWER (COOLING)	W	2470	2431	2428	2278
		RATED INPUT POWER (HEATING)	W	2171	2094	2398	2328
		RATED RUNNING CURRENT (COOLING)	A	12.0	4.07	12.4	4.59
		RATED RUNNING CURRENT (HEATING)	A	10.9	3.72	12.1	4.69
		LOCKED ROTOR AMP.	A	65	26	97	48
	COIL	TUBE	MATERIAL	COPPER			
			DIAMETER mm	7.00			
		FIN	MATERIAL	ALUMINIUM			
			FACE AREA m2	0.62	0.62	0.87	0.87
			ROW	2	2	2	2
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

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Engineering Data - R410A MODEL

MODEL	INDOOR UNIT			FLRN100EXV1		FLRN125EXV1	FHRN140CXV1
	OUTDOOR UNIT			RR100DXV1	RR100DXY1	RR125DXY1	RR140DXY1
NOMINAL COOLING CAPACITY			Btu/h	38000	39000	45000	55000
			W	11100	11400	13190	16119
NOMINAL TOTAL INPUT POWER (COOLING)			W	4025	3940	4517	6414
NOMINAL RUNNING CURRENT (COOLING)			A	19.1	8.20	8.50	9.60
EER			W/W	2.75	2.89	2.92	2.51
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE			
REFRIGERANT CHARGE			kg	2.10	2.10	2.25	2.90
MODEL	INDOOR UNIT			FLQN100EXV1		FLQN125EXV1	FHQN140CXV1
	OUTDOOR UNIT			RQ100DXV1	RQ100DXY1	RQ125DXY1	RQ140DXY1
NOMINAL COOLING CAPACITY			Btu/h	38000	38900	45000	55000
			W	11100	11400	13190	16119
NOMINAL HEATING CAPACITY			Btu/h	40000	42000	48000	55000
			W	11700	12200	14070	16119
NOMINAL TOTAL INPUT POWER (COOLING)			W	4025	3940	4517	6414
NOMINAL TOTAL INPUT POWER (HEATING)			W	3705	3620	4200	6349
NOMINAL RUNNING CURRENT (COOLING)			A	19.1	8.20	8.50	9.60
NOMINAL RUNNING CURRENT (HEATING)			A	17.5	8.00	8.20	9.40
EER			W/W	2.76	2.89	2.92	2.51
COP			W/W	3.16	3.37	3.35	2.54
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE			
REFRIGERANT CHARGE			kg	2.10	2.10	2.25	2.90
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS OR WIRED REMOTE CONTROL			
	AIR FLOW	HIGH	l/s / CFM	520 / 1100		573 / 1215	731 / 1550
		MEDIUM	l/s / CFM	460 / 983		511 / 1082	623 / 1320
		LOW	l/s / CFM	410 / 877		453 / 959	472 / 1000
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0			
	SOUND PRESSURE LEVEL (H/M/L)		dBA	52 / 47 / 46		52 / 50 / 49	56 / 53 / 46
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	260 x 1538 x 634		260 x 1786 x 634	285 x 1903 x 680
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	352 x 1620 x 734		352 x 1868 x 734	351 x 2016 x 788
	UNIT WEIGHT		kg	45		65	70
	CONDENSATE DRAIN SIZE		mm	19.1			
	FAN	TYPE		BLOWER WHEEL			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		20		20	N/A
		INSULATION GRADE		B		B	E
		RATED INPUT POWER	W	218		295	160 x 2
		RATED RUNNING CURRENT	A	0.98		1.32	0.67 x 2
		MOTOR OUTPUT	W	118		149	80 x 2
		POLES		4			
	COIL	TUBE	MATERIAL	COPPER			
			DIAMETER mm	7.00		7.00	9.52
		FIN	MATERIAL	ALUMINIUM			
			FACE AREA m2	0.32		0.32	0.42
			ROW	3		4	4
	AIR QUALITY	FILTER	TYPE	SARANET			
			QUANTITY pc	3		4	5
	CASING		COLOUR	LIGHT GREY			
OUTDOOR UNIT	AIR FLOW		l/s / CFM	1605 / 3400	1605 / 3400	2171 / 4600	2171 / 4600
	SOUND PRESSURE LEVEL		dBA	58	58	60	65
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514
	UNIT WEIGHT		kg	95	95	98	105
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE LIQUID	mm	9.52	9.52	9.52	9.52
		SIZE GAS	mm	15.88	15.88	15.88	19.05
	FAN	TYPE		PROPPELER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		N/A	N/A	20	54
		INSULATION GRADE		B	B	F	F
		RATED INPUT POWER	W	257	257	276	496
		RATED RUNNING CURRENT		1.10	1.10	1.34	2.18
		MOTOR OUTPUT	W	145	145	145	400
		POLES		8			
	COMPRESSOR	TYPE		SCROLL			
		OIL TYPE		MOBIL EAL ARCTIC 22CC			
		OIL AMOUNT	cm3	1951	1951	1656	1591
		RATED INPUT POWER (COOLING)	W	3550	3465	3946	5598
		RATED INPUT POWER (HEATING)	W	3230	3145	3629	5533
		RATED RUNNING CURRENT (COOLING)	A	17.0	7.51	7.61	8.43
		RATED RUNNING CURRENT (HEATING)	A	15.4	7.31	7.31	8.23
		LOCKED ROTOR AMP.		136	64	74	74
	COIL	TUBE	MATERIAL	COPPER			
			DIAMETER mm	7.00			
		FIN	MATERIAL	ALUMINIUM			
			FACE AREA m2	0.87	0.87	0.87	0.84
			ROW	2	2	2	3
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

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Safety Device

R410A

MODEL	INDOOR			FLRN35EXV1	FLRN50EXV1	
	OUTDOOR			RN35CXV1	RN50CXV1	RN50CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A		YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A		130 / 266

MODEL	INDOOR			FLRN60EXV1		FLRN71EXV1	
	OUTDOOR			RN60CXV1	RN60CXY1	RR71CXV1	RR71CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	LOW PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	PHASE SEQUENCER			N/A	YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FLRN90EXV1	FLRN90EXV1	FLRN100EXV1	
	OUTDOOR			RR90DXV1	RR90DXY1	RR100DXV1	RR100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	4137 / 600			
		CLOSE	kPa / psi	3310 / 480			
	LOW PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	48 / 7			
		CLOSE	kPa / psi	152 / 22			
	PHASE SEQUENCER			N/A	YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FLRN125EXV1	FHRN140CXV1
	OUTDOOR			RR125DXY1	RR140DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	4137 / 600	
		CLOSE	kPa / psi	3310 / 480	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	48 / 7	
		CLOSE	kPa / psi	152 / 22	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	130 / 266	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

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MODEL	INDOOR			FLQN35EXV1	FLQN50EXV1	
	OUTDOOR			RYN35CXV1	RYN50CXV1	RYN50CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A		YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A		130 / 266

MODEL	INDOOR			FLQN60EXV1		FLQN71EXV1	
	OUTDOOR			RYN60CXV1	RYN60CXY1	RQ71CXV1	RQ71CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	LOW PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	PHASE SEQUENCER			N/A			
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FLQN90EXV1		FLQN100EXV1	
	OUTDOOR			RQ90DXV1	RQ90DXY1	RQ100DXV1	RQ100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	4137 / 600			
		CLOSE	kPa / psi	3310 / 480			
	LOW PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	48 / 7			
		CLOSE	kPa / psi	152 / 22			
	PHASE SEQUENCER			N/A	YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FDMQN125CXV1	FDMQN140CXV1
	OUTDOOR			RQ125DXY1	RQ140DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	4137 / 600	
		CLOSE	kPa / psi	3310 / 480	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	48 / 7	
		CLOSE	kPa / psi	152 / 22	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	130 / 266	

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Performance Data

Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

Example:

Model: FL15EXV1 – R15CXV1
Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB
Fan Speed: High

Solution:
Based on the Performance Table,

1. Refer to the Indoor DB column,
   - **25°C** is located between 24°C & 27°C for 16°C WB.
   - **25°C** is located between 24°C & 27°C for 19°C WB.
   - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
   - **17°C** is located between 16°C & 19°C for 25°C DB.
   - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C & 40°C.
   - Thus, Interpolation needs to be applied.

1st Step
Interpolation of Indoor WB
Find TC, SC & PI
(a) Indoor: **25°C DB**, 16°C WB
Outdoor: 35°C DB
(b) Indoor: **25°C DB**, 19°C WB
Outdoor: 35°C DB
(c) Indoor: **25°C DB**, 16°C WB
Outdoor: 40°C DB
(d) Indoor: **25°C DB**, 19°C WB
Outdoor: 40°C DB

⇨

2nd Step
Interpolation of Indoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, **17°C WB**
Outdoor: 35°C DB
(b) Indoor: 25°C DB, **17°C WB**
Outdoor: 40°C DB

⇨

3rd Step
Interpolation of Outdoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, 17°C WB
Outdoor: **37°C DB**

Details of Calculation:

1st Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	24		3.20	3.20	1.27	
	25	------	x_1	y_1	z_1	
	27		3.30	3.30	1.27	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_1 - 3.20kW}{3.30kW - 3.20kW}$$

$\Rightarrow x_1 = 3.23kW$

Similarly,

$y_1 = 3.23kW$

$z_1 = 1.27kW$

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(b) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
19	24		3.51	2.57	1.29	
	25	------	x_2	y_2	z_2	
	27		3.52	2.99	1.29	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_2 - 3.51kW}{3.52kW - 3.51kW}$$

$\Rightarrow x_2 = 3.51kW$

Similarly,

$y_2 = 2.71kW$

$z_2 = 1.29kW$

Repeat the same process for (c) & (d) in 1st Step

(c) $x_3 = 2.98$ kW; $y_3 = 2.98$ kW; $z_3 = 1.38$ kW

(d) $x_4 = 3.22$ W; $y_4 = 2.53$ kW; $z_4 = 1.40$ kW

2nd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	25		3.23	3.23	1.27	
17		------	x_5	y_5	z_5	
19			3.51	2.71	1.29	

By Interpolation Method

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_5 - 3.23kW}{3.51kW - 3.23kW}$$

$\Rightarrow x_5 = 3.32kW$

Similarly,

$y_5 = 3.06kW$

$z_5 = 1.28kW$

Repeat the same process for (b) in 2nd Step

(c) $x_6 = 3.06$ kW; $y_6 = 2.83$ kW; $z_6 = 1.39$ kW

3rd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature								
			35°C			37°C			40°C	
			TC	SC	PI	TC	SC	PI	TC	SC	PI
						⋮	⋮	⋮			
25	17	------	3.32	3.06	1.28	x	y	z	3.06	2.83	1.39

By Interpolation Method

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{x - 3.32kW}{3.06kW - 3.32kW}$$

$\Rightarrow x = 3.22kW$

Similarly,

$y = 2.97kW$

$z = 1.35kW$

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Performance Tables

R22 Cooling Only

Model: FLRN35EXV1 - RN35CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
350	16°C	21°C	3.56	2.62	0.97	3.44	2.56	1.05	3.31	2.49	1.14	3.18	2.42	1.24	2.92	2.25	1.34	2.69	2.11	1.48
		24°C	3.57	3.14	0.97	3.44	3.07	1.05	3.31	3.00	1.14	3.18	2.92	1.24	2.92	2.73	1.34	2.70	2.58	1.48
		27°C	3.60	3.56	0.97	3.48	3.48	1.05	3.36	3.36	1.14	3.23	3.23	1.24	2.98	2.98	1.34	2.77	2.77	1.48
		30°C	3.71	3.71	0.98	3.60	3.60	1.06	3.49	3.49	1.15	3.38	3.38	1.25	3.13	3.13	1.36	2.93	2.93	1.50
	19°C	24°C	3.93	2.45	0.99	3.79	2.39	1.07	3.65	2.32	1.16	3.51	2.26	1.26	3.23	2.10	1.36	2.98	1.98	1.50
		27°C	3.93	2.80	0.99	3.80	2.74	1.07	3.66	2.68	1.16	3.51	2.61	1.26	3.23	2.44	1.36	2.99	2.32	1.50
		30°C	3.94	3.46	0.99	3.80	3.39	1.07	3.67	3.31	1.16	3.53	3.23	1.26	3.25	3.02	1.37	3.02	2.86	1.51
		33°C	3.99	3.99	0.99	3.86	3.86	1.07	3.73	3.73	1.16	3.60	3.60	1.26	3.34	3.34	1.37	3.12	3.12	1.51
	22°C	27°C	4.33	2.40	1.01	4.18	2.34	1.09	4.02	2.28	1.18	3.87	2.22	1.28	3.56	2.07	1.39	3.29	1.95	1.53
		30°C	4.33	2.92	1.01	4.18	2.86	1.09	4.02	2.80	1.18	3.87	2.73	1.28	3.56	2.55	1.39	3.29	2.42	1.53
		33°C	4.33	3.41	1.01	4.18	3.35	1.09	4.03	3.28	1.18	3.87	3.21	1.28	3.56	3.02	1.39	3.30	2.87	1.53
		36°C	4.34	3.87	1.01	4.20	3.79	1.09	4.05	3.71	1.18	3.91	3.63	1.28	3.60	3.41	1.39	3.35	3.23	1.54
386	16°C	21°C	3.71	2.74	0.98	3.57	2.67	1.06	3.44	2.60	1.15	3.30	2.52	1.25	3.03	2.35	1.35	2.79	2.21	1.49
		24°C	3.72	3.32	0.98	3.59	3.24	1.06	3.45	3.17	1.15	3.31	3.09	1.25	3.04	2.88	1.35	2.81	2.72	1.49
		27°C	3.76	3.76	0.98	3.64	3.64	1.06	3.51	3.51	1.15	3.39	3.39	1.25	3.13	3.13	1.36	2.91	2.91	1.50
		30°C	3.92	3.92	0.99	3.81	3.81	1.07	3.69	3.69	1.16	3.57	3.57	1.26	3.31	3.31	1.37	3.09	3.09	1.52
	19°C	24°C	4.09	2.59	1.00	3.94	2.52	1.08	3.79	2.46	1.17	3.64	2.39	1.27	3.34	2.23	1.38	3.09	2.10	1.52
		27°C	4.09	2.98	1.00	3.95	2.92	1.08	3.80	2.85	1.17	3.65	2.78	1.27	3.35	2.60	1.38	3.10	2.46	1.52
		30°C	4.11	3.68	1.00	3.97	3.60	1.08	3.83	3.52	1.17	3.68	3.43	1.27	3.39	3.21	1.38	3.14	3.03	1.52
		33°C	4.18	4.18	1.00	4.05	4.05	1.09	3.92	3.92	1.18	3.79	3.79	1.28	3.51	3.51	1.39	3.29	3.29	1.53
	22°C	27°C	4.49	2.53	1.02	4.33	2.48	1.10	4.17	2.41	1.19	4.00	2.35	1.29	3.68	2.19	1.40	3.40	2.07	1.54
		30°C	4.49	3.11	1.02	4.34	3.05	1.10	4.17	2.98	1.19	4.01	2.91	1.29	3.68	2.72	1.40	3.41	2.59	1.55
		33°C	4.50	3.65	1.02	4.35	3.58	1.10	4.19	3.50	1.19	4.02	3.43	1.30	3.70	3.22	1.40	3.43	3.05	1.55
		36°C	4.53	4.12	1.02	4.38	4.04	1.10	4.23	3.96	1.20	4.08	3.87	1.30	3.76	3.62	1.41	3.51	3.41	1.56
508	16°C	21°C	3.85	2.86	0.99	3.70	2.78	1.07	3.56	2.71	1.16	3.41	2.63	1.26	3.13	2.45	1.36	2.89	2.31	1.50
		24°C	3.87	3.47	0.99	3.73	3.39	1.07	3.59	3.30	1.16	3.44	3.22	1.26	3.16	3.00	1.36	2.92	2.83	1.50
		27°C	3.93	3.93	0.99	3.80	3.80	1.08	3.67	3.67	1.17	3.54	3.54	1.26	3.27	3.27	1.37	3.05	3.05	1.51
		30°C	4.12	4.12	1.00	4.00	4.00	1.09	3.88	3.88	1.18	3.75	3.75	1.28	3.47	3.47	1.39	3.25	3.25	1.53
	19°C	24°C	4.23	2.74	1.01	4.08	2.67	1.09	3.92	2.60	1.18	3.76	2.53	1.28	3.46	2.36	1.39	3.19	2.23	1.53
		27°C	4.25	3.17	1.01	4.09	3.10	1.09	3.94	3.02	1.18	3.78	2.95	1.28	3.47	2.76	1.39	3.21	2.61	1.53
		30°C	4.28	3.90	1.01	4.13	3.81	1.09	3.98	3.73	1.18	3.83	3.63	1.28	3.52	3.39	1.39	3.27	3.20	1.54
		33°C	4.37	4.37	1.01	4.25	4.25	1.10	4.11	4.11	1.19	3.98	3.98	1.29	3.69	3.69	1.41	3.45	3.45	1.55
	22°C	27°C	4.64	2.68	1.02	4.48	2.62	1.11	4.31	2.55	1.20	4.14	2.49	1.30	3.80	2.32	1.41	3.51	2.19	1.56
		30°C	4.65	3.30	1.03	4.49	3.24	1.11	4.32	3.17	1.20	4.15	3.10	1.31	3.81	2.90	1.42	3.52	2.75	1.56
		33°C	4.67	3.87	1.03	4.51	3.80	1.11	4.34	3.72	1.21	4.17	3.64	1.31	3.84	3.41	1.42	3.56	3.24	1.56
		36°C	4.71	4.37	1.03	4.56	4.29	1.12	4.41	4.20	1.21	4.25	4.09	1.31	3.93	3.82	1.42	3.66	3.59	1.57

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

DAIKIN_FLRN_FLQN.indb 26 1/8/2013 9:59:08 AM

Model: FLRN50EXV1 - RN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	4.84	3.33	1.31	4.67	3.24	1.41	4.49	3.15	1.53	4.31	3.06	1.66	3.96	2.85	1.80	3.66	2.68	1.99
		24°C	4.84	3.98	1.31	4.67	3.89	1.41	4.50	3.80	1.53	4.32	3.71	1.66	3.97	3.46	1.80	3.67	3.27	1.99
		27°C	4.88	4.52	1.31	4.72	4.41	1.42	4.55	4.31	1.53	4.38	4.20	1.66	4.04	3.91	1.81	3.76	3.67	1.99
		30°C	5.03	5.03	1.32	4.89	4.89	1.42	4.74	4.74	1.54	4.59	4.59	1.68	4.25	4.25	1.82	3.98	3.98	2.01
	19°C	24°C	5.34	3.11	1.33	5.15	3.03	1.44	4.96	2.95	1.56	4.76	2.86	1.69	4.38	2.67	1.83	4.05	2.51	2.02
		27°C	5.34	3.55	1.33	5.15	3.47	1.44	4.96	3.39	1.56	4.77	3.31	1.69	4.38	3.10	1.83	4.05	2.94	2.02
		30°C	5.35	4.39	1.33	5.16	4.29	1.44	4.98	4.20	1.56	4.79	4.10	1.69	4.41	3.83	1.83	4.09	3.63	2.02
		33°C	5.41	5.41	1.33	5.23	5.23	1.44	5.07	5.07	1.56	4.89	4.89	1.70	4.53	4.53	1.84	4.23	4.23	2.04
	22°C	27°C	5.87	3.04	1.35	5.67	2.97	1.46	5.46	2.89	1.59	5.25	2.81	1.72	4.82	2.62	1.87	4.47	2.47	2.06
		30°C	5.87	3.71	1.35	5.67	3.63	1.46	5.46	3.54	1.59	5.25	3.46	1.72	4.83	3.24	1.87	4.47	3.07	2.06
		33°C	5.88	4.33	1.35	5.67	4.24	1.46	5.47	4.16	1.59	5.25	4.07	1.72	4.83	3.83	1.87	4.48	3.63	2.06
		36°C	5.89	4.91	1.35	5.70	4.81	1.47	5.50	4.71	1.59	5.30	4.60	1.73	4.89	4.32	1.87	4.55	4.10	2.06
460	16°C	21°C	5.03	3.47	1.32	4.85	3.38	1.43	4.67	3.29	1.54	4.48	3.20	1.67	4.11	2.98	1.82	3.79	2.80	2.00
		24°C	5.05	4.21	1.32	4.87	4.11	1.43	4.68	4.01	1.55	4.50	3.91	1.68	4.13	3.65	1.82	3.82	3.45	2.00
		27°C	5.11	4.78	1.32	4.94	4.67	1.43	4.77	4.55	1.55	4.60	4.42	1.68	4.24	4.10	1.83	3.95	3.84	2.02
		30°C	5.32	5.32	1.33	5.17	5.17	1.44	5.01	5.01	1.56	4.85	4.85	1.70	4.49	4.49	1.85	4.20	4.20	2.04
	19°C	24°C	5.54	3.28	1.34	5.35	3.20	1.45	5.15	3.12	1.57	4.94	3.03	1.70	4.54	2.82	1.85	4.19	2.66	2.04
		27°C	5.55	3.78	1.34	5.36	3.70	1.45	5.16	3.61	1.57	4.95	3.53	1.70	4.55	3.30	1.85	4.20	3.12	2.04
		30°C	5.58	4.66	1.34	5.39	4.56	1.45	5.19	4.46	1.57	5.00	4.35	1.71	4.60	4.07	1.85	4.27	3.84	2.04
		33°C	5.67	5.67	1.35	5.50	5.50	1.46	5.33	5.33	1.58	5.15	5.15	1.72	4.77	4.77	1.87	4.46	4.46	2.06
	22°C	27°C	6.09	3.21	1.36	5.88	3.14	1.48	5.66	3.06	1.60	5.43	2.98	1.74	4.99	2.78	1.88	4.62	2.62	2.08
		30°C	6.10	3.94	1.37	5.88	3.86	1.48	5.67	3.78	1.60	5.44	3.69	1.74	5.00	3.45	1.89	4.63	3.28	2.08
		33°C	6.11	4.62	1.37	5.90	4.53	1.48	5.68	4.44	1.60	5.46	4.35	1.74	5.02	4.08	1.89	4.65	3.87	2.08
		36°C	6.15	5.22	1.37	5.95	5.12	1.48	5.74	5.02	1.61	5.53	4.90	1.75	5.10	4.59	1.89	4.76	4.33	2.09
520	16°C	21°C	5.22	3.62	1.33	5.03	3.53	1.44	4.83	3.44	1.56	4.63	3.34	1.69	4.25	3.11	1.83	3.92	2.93	2.02
		24°C	5.25	4.40	1.33	5.06	4.29	1.44	4.87	4.19	1.56	4.67	4.08	1.69	4.29	3.81	1.83	3.96	3.59	2.02
		27°C	5.33	5.04	1.33	5.16	4.91	1.44	4.98	4.77	1.57	4.80	4.63	1.70	4.44	4.29	1.84	4.14	4.00	2.04
		30°C	5.60	5.60	1.35	5.43	5.43	1.46	5.27	5.27	1.58	5.09	5.09	1.72	4.72	4.72	1.87	4.40	4.40	2.06
	19°C	24°C	5.74	3.47	1.35	5.54	3.39	1.46	5.33	3.30	1.58	5.11	3.21	1.72	4.69	2.99	1.86	4.33	2.82	2.05
		27°C	5.76	4.02	1.35	5.55	3.93	1.46	5.35	3.83	1.59	5.13	3.74	1.72	4.71	3.50	1.87	4.35	3.31	2.06
		30°C	5.81	4.94	1.35	5.60	4.84	1.47	5.40	4.73	1.59	5.20	4.61	1.72	4.78	4.30	1.87	4.44	4.06	2.06
		33°C	5.93	5.93	1.36	5.76	5.76	1.48	5.58	5.58	1.60	5.40	5.40	1.74	5.00	5.00	1.89	4.68	4.68	2.09
	22°C	27°C	6.30	3.40	1.38	6.08	3.32	1.49	5.85	3.24	1.62	5.62	3.15	1.75	5.16	2.94	1.90	4.77	2.78	2.09
		30°C	6.32	4.19	1.38	6.09	4.11	1.49	5.86	4.02	1.62	5.63	3.93	1.75	5.17	3.68	1.90	4.78	3.49	2.09
		33°C	6.34	4.91	1.38	6.12	4.82	1.49	5.89	4.72	1.62	5.66	4.62	1.76	5.21	4.33	1.91	4.83	4.11	2.10
		36°C	6.39	5.54	1.38	6.19	5.44	1.50	5.98	5.32	1.63	5.77	5.19	1.76	5.33	4.84	1.91	4.97	4.56	2.11

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN50EXV1 - RN50CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	5.00	3.44	1.34	4.82	3.35	1.45	4.64	3.26	1.57	4.46	3.17	1.70	4.09	2.95	1.84	3.78	2.77	2.03
		24°C	5.00	4.12	1.34	4.83	4.03	1.45	4.65	3.93	1.57	4.46	3.84	1.70	4.10	3.58	1.84	3.79	3.38	2.03
		27°C	5.04	4.67	1.34	4.88	4.57	1.45	4.70	4.46	1.57	4.53	4.35	1.70	4.18	4.04	1.85	3.89	3.80	2.04
		30°C	5.20	5.20	1.35	5.05	5.05	1.46	4.90	4.90	1.58	4.74	4.74	1.72	4.39	4.39	1.86	4.11	4.11	2.06
	19°C	24°C	5.51	3.21	1.36	5.32	3.13	1.47	5.12	3.05	1.59	4.92	2.96	1.73	4.52	2.76	1.87	4.18	2.60	2.07
		27°C	5.52	3.68	1.36	5.32	3.59	1.47	5.13	3.51	1.59	4.93	3.43	1.73	4.53	3.21	1.88	4.19	3.04	2.07
		30°C	5.52	4.54	1.36	5.33	4.44	1.47	5.15	4.34	1.59	4.95	4.24	1.73	4.56	3.96	1.88	4.23	3.75	2.07
		33°C	5.59	5.59	1.36	5.41	5.41	1.48	5.23	5.23	1.60	5.05	5.05	1.74	4.68	4.68	1.89	4.37	4.37	2.08
	22°C	27°C	6.06	3.15	1.38	5.85	3.07	1.50	5.64	2.99	1.62	5.42	2.91	1.76	4.98	2.71	1.91	4.61	2.56	2.11
		30°C	6.07	3.83	1.38	5.86	3.75	1.50	5.64	3.67	1.62	5.42	3.58	1.76	4.99	3.35	1.91	4.62	3.18	2.11
		33°C	6.07	4.48	1.38	5.86	4.39	1.50	5.65	4.31	1.62	5.43	4.22	1.76	4.99	3.96	1.91	4.63	3.76	2.11
		36°C	6.09	5.08	1.38	5.89	4.98	1.50	5.68	4.87	1.63	5.48	4.76	1.77	5.05	4.47	1.92	4.70	4.24	2.11
460	16°C	21°C	5.20	3.59	1.35	5.01	3.50	1.46	4.82	3.40	1.58	4.62	3.31	1.71	4.24	3.08	1.86	3.91	2.90	2.05
		24°C	5.22	4.36	1.35	5.03	4.26	1.46	4.84	4.15	1.58	4.64	4.05	1.71	4.27	3.78	1.86	3.94	3.57	2.05
		27°C	5.28	4.95	1.35	5.10	4.83	1.46	4.92	4.71	1.59	4.75	4.57	1.72	4.38	4.24	1.87	4.08	3.97	2.06
		30°C	5.50	5.50	1.36	5.34	5.34	1.48	5.18	5.18	1.60	5.01	5.01	1.74	4.64	4.64	1.89	4.34	4.34	2.08
	19°C	24°C	5.73	3.40	1.37	5.52	3.31	1.48	5.32	3.22	1.61	5.10	3.14	1.74	4.69	2.92	1.89	4.33	2.75	2.08
		27°C	5.74	3.91	1.37	5.53	3.83	1.48	5.33	3.74	1.61	5.11	3.65	1.74	4.70	3.41	1.89	4.34	3.23	2.09
		30°C	5.77	4.83	1.37	5.57	4.72	1.49	5.37	4.62	1.61	5.16	4.50	1.75	4.75	4.21	1.90	4.41	3.98	2.09
		33°C	5.86	5.86	1.38	5.68	5.68	1.49	5.50	5.50	1.62	5.32	5.32	1.76	4.93	4.93	1.91	4.61	4.61	2.11
	22°C	27°C	6.29	3.33	1.40	6.07	3.25	1.51	5.85	3.17	1.64	5.61	3.08	1.78	5.16	2.87	1.93	4.77	2.71	2.12
		30°C	6.30	4.08	1.40	6.08	4.00	1.51	5.85	3.91	1.64	5.62	3.82	1.78	5.17	3.57	1.93	4.78	3.39	2.13
		33°C	6.31	4.78	1.40	6.09	4.69	1.51	5.87	4.59	1.64	5.64	4.50	1.78	5.19	4.22	1.93	4.81	4.00	2.13
		36°C	6.35	5.41	1.40	6.15	5.30	1.52	5.93	5.19	1.65	5.72	5.07	1.79	5.27	4.75	1.94	4.92	4.48	2.14
520	16°C	21°C	5.39	3.75	1.36	5.19	3.65	1.47	4.99	3.55	1.59	4.79	3.46	1.73	4.39	3.22	1.87	4.05	3.03	2.06
		24°C	5.42	4.55	1.36	5.22	4.44	1.47	5.03	4.34	1.60	4.82	4.22	1.73	4.43	3.94	1.88	4.09	3.71	2.07
		27°C	5.51	5.22	1.37	5.33	5.08	1.48	5.15	4.94	1.60	4.96	4.79	1.74	4.59	4.43	1.89	4.27	4.14	2.08
		30°C	5.78	5.78	1.38	5.61	5.61	1.49	5.44	5.44	1.62	5.26	5.26	1.76	4.87	4.87	1.91	4.55	4.55	2.11
	19°C	24°C	5.93	3.59	1.38	5.72	3.50	1.50	5.50	3.41	1.62	5.28	3.32	1.76	4.84	3.10	1.91	4.47	2.92	2.10
		27°C	5.95	4.16	1.38	5.74	4.06	1.50	5.52	3.97	1.62	5.30	3.87	1.76	4.87	3.62	1.91	4.50	3.42	2.10
		30°C	6.00	5.12	1.39	5.79	5.00	1.50	5.58	4.89	1.63	5.37	4.77	1.76	4.94	4.45	1.91	4.59	4.20	2.11
		33°C	6.13	6.13	1.39	5.95	5.95	1.51	5.77	5.77	1.64	5.58	5.58	1.78	5.17	5.17	1.93	4.83	4.83	2.13
	22°C	27°C	6.51	3.51	1.41	6.28	3.44	1.53	6.04	3.35	1.65	5.80	3.26	1.79	5.33	3.05	1.94	4.92	2.88	2.14
		30°C	6.53	4.33	1.41	6.29	4.25	1.53	6.06	4.16	1.65	5.81	4.06	1.79	5.34	3.81	1.95	4.94	3.61	2.14
		33°C	6.55	5.08	1.41	6.32	4.99	1.53	6.09	4.88	1.66	5.85	4.78	1.80	5.38	4.48	1.95	4.99	4.25	2.15
		36°C	6.61	5.73	1.41	6.40	5.63	1.53	6.18	5.51	1.66	5.96	5.37	1.80	5.50	5.01	1.96	5.13	4.72	2.16

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN60EXV1 - RN60CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	5.53	3.86	1.50	5.33	3.76	1.62	5.13	3.66	1.75	4.93	3.55	1.90	4.52	3.31	2.06	4.18	3.11	2.27
		24°C	5.53	4.62	1.50	5.34	4.52	1.62	5.14	4.41	1.75	4.93	4.30	1.90	4.53	4.02	2.06	4.19	3.79	2.27
		27°C	5.58	5.24	1.50	5.39	5.12	1.62	5.20	5.00	1.76	5.01	4.87	1.91	4.62	4.54	2.07	4.30	4.26	2.28
		30°C	5.75	5.75	1.51	5.58	5.58	1.63	5.41	5.41	1.77	5.24	5.24	1.92	4.86	4.86	2.09	4.54	4.54	2.30
	19°C	24°C	6.09	3.60	1.52	5.88	3.51	1.65	5.67	3.42	1.78	5.44	3.32	1.93	5.00	3.10	2.10	4.62	2.91	2.31
		27°C	6.10	4.12	1.52	5.88	4.03	1.65	5.67	3.94	1.78	5.45	3.84	1.93	5.01	3.60	2.10	4.63	3.41	2.31
		30°C	6.11	5.09	1.52	5.90	4.98	1.65	5.69	4.87	1.79	5.47	4.75	1.94	5.04	4.45	2.10	4.68	4.21	2.32
		33°C	6.18	6.18	1.52	5.98	5.98	1.65	5.79	5.79	1.79	5.59	5.59	1.94	5.17	5.17	2.11	4.83	4.83	2.33
	22°C	27°C	6.71	3.53	1.55	6.47	3.44	1.68	6.24	3.36	1.82	5.99	3.26	1.97	5.51	3.04	2.14	5.10	2.87	2.36
		30°C	6.71	4.30	1.55	6.48	4.21	1.68	6.24	4.11	1.82	5.99	4.01	1.97	5.51	3.76	2.14	5.10	3.56	2.36
		33°C	6.71	5.02	1.55	6.48	4.93	1.68	6.24	4.83	1.82	6.00	4.73	1.97	5.52	4.44	2.14	5.12	4.22	2.36
		36°C	6.73	5.69	1.55	6.51	5.58	1.68	6.28	5.46	1.82	6.06	5.34	1.98	5.58	5.01	2.14	5.19	4.75	2.36
530	16°C	21°C	5.75	4.03	1.51	5.54	3.92	1.63	5.33	3.82	1.77	5.11	3.71	1.92	4.69	3.46	2.08	4.33	3.25	2.29
		24°C	5.77	4.89	1.51	5.56	4.77	1.63	5.35	4.66	1.77	5.13	4.54	1.92	4.72	4.24	2.08	4.36	4.00	2.30
		27°C	5.84	5.55	1.51	5.64	5.42	1.64	5.45	5.28	1.78	5.25	5.12	1.93	4.85	4.76	2.09	4.52	4.45	2.31
		30°C	6.08	6.08	1.53	5.90	5.90	1.65	5.72	5.72	1.79	5.54	5.54	1.95	5.13	5.13	2.11	4.80	4.80	2.33
	19°C	24°C	6.33	3.81	1.53	6.11	3.71	1.66	5.88	3.62	1.80	5.64	3.52	1.95	5.18	3.28	2.12	4.79	3.09	2.33
		27°C	6.34	4.39	1.54	6.12	4.29	1.66	5.89	4.19	1.80	5.65	4.09	1.95	5.19	3.83	2.12	4.80	3.62	2.33
		30°C	6.38	5.41	1.54	6.15	5.29	1.66	5.93	5.18	1.80	5.71	5.05	1.96	5.25	4.72	2.12	4.87	4.46	2.34
		33°C	6.48	6.48	1.54	6.28	6.28	1.67	6.08	6.08	1.81	5.88	5.88	1.97	5.45	5.45	2.14	5.09	5.09	2.36
	22°C	27°C	6.96	3.73	1.56	6.71	3.64	1.69	6.46	3.55	1.84	6.21	3.45	1.99	5.70	3.22	2.16	5.28	3.04	2.38
		30°C	6.97	4.58	1.56	6.72	4.48	1.69	6.47	4.38	1.84	6.21	4.28	1.99	5.71	4.01	2.16	5.28	3.80	2.38
		33°C	6.98	5.36	1.56	6.74	5.26	1.70	6.49	5.15	1.84	6.23	5.04	1.99	5.74	4.73	2.16	5.32	4.49	2.38
		36°C	7.02	6.06	1.57	6.80	5.95	1.70	6.56	5.82	1.84	6.32	5.69	2.00	5.83	5.32	2.17	5.44	5.02	2.39
580	16°C	21°C	5.96	4.20	1.52	5.74	4.09	1.65	5.52	3.99	1.78	5.29	3.87	1.93	4.86	3.61	2.10	4.48	3.40	2.31
		24°C	5.99	5.10	1.52	5.77	4.98	1.65	5.56	4.86	1.79	5.33	4.73	1.94	4.90	4.42	2.10	4.53	4.17	2.31
		27°C	6.09	5.85	1.53	5.89	5.70	1.65	5.69	5.54	1.79	5.49	5.37	1.95	5.07	4.97	2.11	4.73	4.64	2.33
		30°C	6.39	6.39	1.54	6.21	6.21	1.67	6.02	6.02	1.81	5.82	5.82	1.97	5.39	5.39	2.14	5.03	5.03	2.36
	19°C	24°C	6.56	4.03	1.55	6.32	3.93	1.68	6.08	3.83	1.82	5.84	3.73	1.97	5.36	3.47	2.13	4.95	3.28	2.35
		27°C	6.58	4.66	1.55	6.34	4.56	1.68	6.11	4.45	1.82	5.86	4.34	1.97	5.38	4.06	2.14	4.97	3.84	2.35
		30°C	6.64	5.74	1.55	6.40	5.61	1.68	6.17	5.48	1.82	5.93	5.35	1.97	5.46	4.99	2.14	5.07	4.71	2.36
		33°C	6.78	6.78	1.56	6.58	6.58	1.69	6.38	6.38	1.83	6.17	6.17	1.99	5.71	5.71	2.16	5.34	5.34	2.39
	22°C	27°C	7.20	3.94	1.58	6.94	3.86	1.71	6.68	3.76	1.85	6.41	3.66	2.01	5.89	3.42	2.18	5.45	3.23	2.40
		30°C	7.22	4.86	1.58	6.96	4.77	1.71	6.70	4.66	1.85	6.43	4.56	2.01	5.91	4.27	2.18	5.46	4.05	2.40
		33°C	7.24	5.70	1.58	6.99	5.60	1.71	6.73	5.48	1.86	6.47	5.36	2.01	5.95	5.02	2.18	5.51	4.77	2.40
		36°C	7.30	6.43	1.58	7.08	6.31	1.72	6.83	6.18	1.86	6.59	6.02	2.02	6.08	5.62	2.19	5.68	5.29	2.42

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN60EXV1 - RN60CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	6.32	4.41	1.69	6.09	4.30	1.83	5.87	4.18	1.98	5.63	4.06	2.15	5.17	3.78	2.33	4.77	3.56	2.57
		24°C	6.33	5.28	1.69	6.10	5.16	1.83	5.88	5.04	1.99	5.64	4.92	2.15	5.18	4.59	2.34	4.79	4.33	2.57
		27°C	6.38	5.99	1.70	6.16	5.85	1.84	5.95	5.72	1.99	5.72	5.57	2.16	5.28	5.18	2.34	4.91	4.87	2.58
		30°C	6.57	6.57	1.71	6.38	6.38	1.85	6.19	6.19	2.00	5.99	5.99	2.17	5.55	5.55	2.36	5.20	5.20	2.61
	19°C	24°C	6.97	4.12	1.72	6.72	4.02	1.86	6.48	3.91	2.02	6.22	3.80	2.19	5.72	3.54	2.38	5.29	3.33	2.62
		27°C	6.97	4.71	1.72	6.73	4.61	1.86	6.48	4.50	2.02	6.23	4.39	2.19	5.72	4.11	2.38	5.29	3.89	2.62
		30°C	6.98	5.82	1.72	6.74	5.69	1.86	6.50	5.57	2.02	6.26	5.43	2.19	5.76	5.08	2.38	5.35	4.81	2.62
		33°C	7.07	7.07	1.73	6.84	6.84	1.87	6.62	6.62	2.03	6.39	6.39	2.20	5.91	5.91	2.39	5.53	5.53	2.64
	22°C	27°C	7.67	4.03	1.75	7.40	3.93	1.90	7.13	3.84	2.06	6.85	3.73	2.23	6.30	3.48	2.42	5.83	3.28	2.67
		30°C	7.67	4.91	1.75	7.40	4.81	1.90	7.13	4.70	2.06	6.85	4.59	2.23	6.30	4.30	2.42	5.84	4.07	2.67
		33°C	7.67	5.74	1.75	7.41	5.63	1.90	7.14	5.52	2.06	6.86	5.40	2.23	6.31	5.07	2.42	5.85	4.82	2.67
		36°C	7.70	6.51	1.75	7.44	6.38	1.90	7.19	6.24	2.06	6.92	6.11	2.24	6.39	5.73	2.43	5.94	5.43	2.68
530	16°C	21°C	6.57	4.60	1.71	6.34	4.48	1.85	6.10	4.36	2.00	5.85	4.24	2.17	5.36	3.95	2.35	4.95	3.72	2.60
		24°C	6.59	5.59	1.71	6.36	5.45	1.85	6.12	5.32	2.00	5.87	5.19	2.17	5.39	4.84	2.36	4.99	4.57	2.60
		27°C	6.67	6.34	1.71	6.45	6.20	1.85	6.23	6.04	2.01	6.00	5.86	2.18	5.54	5.44	2.37	5.16	5.09	2.61
		30°C	6.95	6.95	1.73	6.75	6.75	1.87	6.54	6.54	2.03	6.33	6.33	2.20	5.87	5.87	2.39	5.48	5.48	2.64
	19°C	24°C	7.24	4.35	1.74	6.98	4.24	1.88	6.72	4.13	2.04	6.45	4.02	2.21	5.92	3.75	2.40	5.47	3.53	2.64
		27°C	7.25	5.01	1.74	7.00	4.90	1.88	6.73	4.79	2.04	6.46	4.68	2.21	5.94	4.37	2.40	5.49	4.14	2.64
		30°C	7.29	6.19	1.74	7.04	6.05	1.88	6.78	5.92	2.04	6.52	5.77	2.21	6.01	5.40	2.40	5.57	5.10	2.65
		33°C	7.41	7.41	1.75	7.18	7.18	1.89	6.96	6.96	2.05	6.72	6.72	2.23	6.23	6.23	2.42	5.82	5.82	2.67
	22°C	27°C	7.96	4.26	1.77	7.68	4.16	1.92	7.39	4.06	2.08	7.10	3.95	2.25	6.52	3.68	2.44	6.03	3.47	2.69
		30°C	7.97	5.23	1.77	7.69	5.12	1.92	7.40	5.01	2.08	7.11	4.89	2.25	6.53	4.58	2.44	6.04	4.35	2.69
		33°C	7.98	6.13	1.77	7.70	6.01	1.92	7.42	5.89	2.08	7.13	5.76	2.26	6.56	5.41	2.45	6.08	5.13	2.70
		36°C	8.03	6.93	1.77	7.77	6.80	1.92	7.50	6.66	2.09	7.23	6.50	2.26	6.67	6.08	2.46	6.22	5.74	2.71
580	16°C	21°C	6.82	4.80	1.72	6.57	4.68	1.86	6.31	4.56	2.02	6.05	4.43	2.19	5.55	4.12	2.37	5.12	3.88	2.62
		24°C	6.85	5.83	1.73	6.60	5.70	1.87	6.35	5.56	2.02	6.10	5.41	2.19	5.60	5.05	2.38	5.17	4.76	2.62
		27°C	6.96	6.69	1.73	6.73	6.51	1.87	6.51	6.33	2.03	6.27	6.14	2.20	5.80	5.68	2.39	5.40	5.31	2.64
		30°C	7.31	7.31	1.75	7.10	7.10	1.89	6.88	6.88	2.05	6.65	6.65	2.23	6.16	6.16	2.42	5.75	5.75	2.67
	19°C	24°C	7.50	4.61	1.75	7.23	4.49	1.90	6.96	4.38	2.05	6.67	4.26	2.23	6.12	3.97	2.42	5.65	3.74	2.66
		27°C	7.52	5.33	1.75	7.25	5.21	1.90	6.98	5.08	2.06	6.70	4.96	2.23	6.15	4.64	2.42	5.69	4.39	2.66
		30°C	7.59	6.56	1.76	7.32	6.41	1.90	7.06	6.27	2.06	6.79	6.11	2.24	6.25	5.71	2.43	5.80	5.38	2.67
		33°C	7.75	7.75	1.76	7.52	7.52	1.91	7.29	7.29	2.08	7.05	7.05	2.25	6.53	6.53	2.45	6.11	6.11	2.70
	22°C	27°C	8.23	4.50	1.79	7.94	4.41	1.93	7.64	4.30	2.10	7.33	4.18	2.27	6.74	3.90	2.46	6.23	3.69	2.71
		30°C	8.25	5.55	1.79	7.96	5.45	1.93	7.66	5.33	2.10	7.35	5.21	2.27	6.75	4.88	2.47	6.24	4.62	2.72
		33°C	8.28	6.51	1.79	7.99	6.40	1.94	7.70	6.26	2.10	7.40	6.12	2.28	6.80	5.74	2.47	6.30	5.45	2.72
		36°C	8.35	7.35	1.79	8.09	7.22	1.94	7.81	7.06	2.11	7.53	6.88	2.29	6.96	6.42	2.48	6.49	6.04	2.74

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN71EXV1 - RR71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.45	4.99	2.09	7.18	4.86	2.26	6.92	4.73	2.45	6.64	4.59	2.66	6.10	4.27	2.88	5.63	4.02	3.18
		24°C	7.46	5.97	2.09	7.19	5.84	2.26	6.93	5.70	2.45	6.65	5.56	2.66	6.11	5.19	2.88	5.65	4.90	3.18
		27°C	7.52	6.77	2.10	7.27	6.62	2.27	7.01	6.46	2.46	6.75	6.30	2.66	6.23	5.86	2.89	5.79	5.50	3.19
		30°C	7.75	7.75	2.11	7.53	7.53	2.28	7.30	7.30	2.47	7.06	7.06	2.68	6.55	6.55	2.92	6.12	6.12	3.22
	19°C	24°C	8.22	4.66	2.12	7.93	4.54	2.30	7.64	4.42	2.49	7.33	4.29	2.70	6.74	4.00	2.93	6.23	3.77	3.23
		27°C	8.22	5.33	2.13	7.93	5.21	2.30	7.64	5.09	2.49	7.34	4.97	2.70	6.75	4.65	2.93	6.24	4.40	3.23
		30°C	8.23	6.58	2.13	7.95	6.44	2.30	7.67	6.29	2.49	7.38	6.14	2.71	6.79	5.74	2.94	6.30	5.44	3.24
		33°C	8.33	8.33	2.13	8.06	8.06	2.31	7.80	7.80	2.50	7.53	7.53	2.72	6.97	6.97	2.95	6.52	6.52	3.26
	22°C	27°C	9.04	4.56	2.16	8.73	4.45	2.34	8.41	4.34	2.54	8.08	4.22	2.76	7.43	3.93	2.99	6.88	3.71	3.29
		30°C	9.04	5.56	2.16	8.73	5.44	2.34	8.41	5.31	2.54	8.08	5.19	2.76	7.43	4.86	2.99	6.88	4.61	3.29
		33°C	9.05	6.49	2.16	8.73	6.37	2.34	8.41	6.24	2.54	8.09	6.11	2.76	7.44	5.74	2.99	6.90	5.45	3.30
		36°C	9.08	7.36	2.17	8.78	7.21	2.35	8.47	7.06	2.55	8.16	6.90	2.76	7.53	6.47	3.00	7.00	6.14	3.30
560	16°C	21°C	7.75	5.20	2.11	7.47	5.07	2.28	7.19	4.94	2.47	6.89	4.80	2.68	6.33	4.47	2.91	5.84	4.20	3.20
		24°C	7.77	6.32	2.11	7.49	6.17	2.28	7.21	6.02	2.47	6.92	5.87	2.68	6.36	5.48	2.91	5.88	5.17	3.21
		27°C	7.87	7.17	2.12	7.60	7.01	2.29	7.34	6.83	2.48	7.08	6.62	2.69	6.53	6.15	2.92	6.09	5.76	3.23
		30°C	8.20	8.20	2.13	7.96	7.96	2.31	7.72	7.72	2.50	7.46	7.46	2.72	6.92	6.92	2.95	6.46	6.46	3.26
	19°C	24°C	8.54	4.92	2.14	8.23	4.80	2.32	7.93	4.67	2.52	7.61	4.55	2.73	6.99	4.24	2.96	6.45	3.99	3.26
		27°C	8.55	5.67	2.15	8.25	5.55	2.32	7.94	5.42	2.52	7.62	5.29	2.73	7.00	4.95	2.96	6.47	4.68	3.26
		30°C	8.59	7.00	2.15	8.30	6.84	2.33	8.00	6.69	2.52	7.69	6.53	2.73	7.08	6.10	2.97	6.57	5.77	3.27
		33°C	8.74	8.74	2.16	8.47	8.47	2.34	8.20	8.20	2.53	7.93	7.93	2.75	7.34	7.34	2.99	6.87	6.87	3.30
	22°C	27°C	9.38	4.82	2.18	9.05	4.71	2.37	8.71	4.59	2.57	8.37	4.46	2.78	7.69	4.16	3.02	7.11	3.93	3.32
		30°C	9.39	5.92	2.19	9.06	5.79	2.37	8.72	5.66	2.57	8.38	5.53	2.78	7.70	5.18	3.02	7.12	4.92	3.32
		33°C	9.41	6.93	2.19	9.08	6.80	2.37	8.75	6.66	2.57	8.40	6.52	2.79	7.73	6.11	3.02	7.17	5.81	3.33
		36°C	9.47	7.84	2.19	9.16	7.69	2.37	8.84	7.53	2.57	8.52	7.35	2.79	7.86	6.88	3.03	7.33	6.49	3.34
640	16°C	21°C	8.04	5.43	2.13	7.74	5.29	2.30	7.45	5.15	2.49	7.14	5.01	2.70	6.55	4.67	2.93	6.03	4.39	3.23
		24°C	8.08	6.60	2.13	7.79	6.44	2.30	7.49	6.28	2.50	7.19	6.12	2.71	6.60	5.71	2.93	6.10	5.38	3.23
		27°C	8.21	7.56	2.14	7.94	7.37	2.31	7.67	7.16	2.51	7.40	6.94	2.72	6.84	6.43	2.95	6.37	6.00	3.26
		30°C	8.62	8.62	2.15	8.37	8.37	2.33	8.11	8.11	2.53	7.84	7.84	2.75	7.26	7.26	2.99	6.78	6.78	3.30
	19°C	24°C	8.85	5.21	2.16	8.53	5.08	2.34	8.20	4.95	2.54	7.87	4.82	2.75	7.22	4.49	2.98	6.67	4.23	3.29
		27°C	8.87	6.03	2.16	8.55	5.89	2.34	8.23	5.75	2.54	7.90	5.61	2.75	7.25	5.25	2.99	6.70	4.96	3.29
		30°C	8.95	7.42	2.17	8.63	7.25	2.35	8.32	7.09	2.54	8.00	6.91	2.76	7.37	6.45	2.99	6.84	6.08	3.30
		33°C	9.14	9.14	2.18	8.87	8.87	2.36	8.60	8.60	2.56	8.32	8.32	2.78	7.70	7.70	3.02	7.20	7.20	3.34
	22°C	27°C	9.71	5.10	2.20	9.36	4.98	2.39	9.01	4.86	2.59	8.65	4.73	2.81	7.94	4.41	3.04	7.34	4.17	3.35
		30°C	9.73	6.28	2.20	9.38	6.16	2.39	9.03	6.03	2.59	8.67	5.89	2.81	7.96	5.52	3.04	7.36	5.23	3.35
		33°C	9.76	7.36	2.21	9.42	7.23	2.39	9.08	7.08	2.59	8.72	6.92	2.81	8.02	6.49	3.05	7.43	6.16	3.36
		36°C	9.85	8.31	2.21	9.54	8.16	2.40	9.21	7.98	2.60	8.88	7.78	2.82	8.20	7.26	3.06	7.65	6.84	3.38

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

DAIKIN_FLRN_FLQN.indb 31 1/8/2013 9:59:09 AM

Model: FLRN71EXV1 - RR71CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.18	4.81	2.06	6.93	4.69	2.23	6.67	4.56	2.42	6.40	4.43	2.62	5.88	4.12	2.84	5.43	3.88	3.13
		24°C	7.19	5.76	2.06	6.94	5.63	2.23	6.68	5.50	2.42	6.41	5.36	2.62	5.89	5.01	2.84	5.45	4.72	3.13
		27°C	7.25	6.53	2.07	7.01	6.38	2.24	6.76	6.23	2.42	6.51	6.07	2.63	6.00	5.65	2.85	5.59	5.31	3.15
		30°C	7.47	7.47	2.08	7.26	7.26	2.25	7.04	7.04	2.44	6.81	6.81	2.65	6.31	6.31	2.88	5.91	5.91	3.18
	19°C	24°C	7.92	4.49	2.10	7.65	4.38	2.27	7.37	4.26	2.46	7.07	4.14	2.67	6.50	3.86	2.89	6.01	3.63	3.19
		27°C	7.93	5.14	2.10	7.65	5.02	2.27	7.37	4.91	2.46	7.08	4.79	2.67	6.51	4.48	2.89	6.02	4.24	3.19
		30°C	7.94	6.34	2.10	7.67	6.21	2.27	7.40	6.07	2.46	7.12	5.92	2.67	6.55	5.54	2.90	6.08	5.24	3.19
		33°C	8.04	8.04	2.10	7.77	7.77	2.28	7.52	7.52	2.47	7.27	7.27	2.68	6.72	6.72	2.91	6.28	6.28	3.21
	22°C	27°C	8.72	4.40	2.13	8.42	4.29	2.31	8.11	4.18	2.51	7.79	4.07	2.72	7.17	3.79	2.95	6.63	3.57	3.25
		30°C	8.72	5.36	2.13	8.42	5.24	2.31	8.11	5.12	2.51	7.79	5.00	2.72	7.17	4.68	2.95	6.64	4.44	3.25
		33°C	8.73	6.26	2.13	8.42	6.14	2.31	8.12	6.02	2.51	7.80	5.89	2.72	7.18	5.53	2.95	6.65	5.25	3.25
		36°C	8.75	7.10	2.14	8.46	6.95	2.31	8.17	6.81	2.51	7.87	6.66	2.72	7.26	6.24	2.96	6.75	5.92	3.26
560	16°C	21°C	7.48	5.02	2.08	7.21	4.89	2.25	6.93	4.76	2.44	6.65	4.63	2.64	6.10	4.31	2.87	5.63	4.05	3.16
		24°C	7.50	6.09	2.08	7.23	5.95	2.25	6.96	5.81	2.44	6.68	5.66	2.65	6.13	5.28	2.87	5.67	4.98	3.16
		27°C	7.59	6.92	2.09	7.33	6.76	2.26	7.08	6.58	2.45	6.83	6.39	2.66	6.30	5.93	2.88	5.87	5.55	3.18
		30°C	7.90	7.90	2.10	7.68	7.68	2.28	7.44	7.44	2.47	7.20	7.20	2.68	6.67	6.67	2.91	6.24	6.24	3.22
	19°C	24°C	8.24	4.75	2.12	7.94	4.63	2.29	7.64	4.51	2.48	7.34	4.38	2.69	6.74	4.09	2.92	6.22	3.85	3.21
		27°C	8.25	5.47	2.12	7.96	5.35	2.29	7.66	5.23	2.48	7.35	5.10	2.69	6.75	4.77	2.92	6.24	4.52	3.22
		30°C	8.29	6.75	2.12	8.00	6.60	2.29	7.71	6.45	2.49	7.42	6.29	2.70	6.83	5.89	2.93	6.34	5.56	3.23
		33°C	8.43	8.43	2.13	8.17	8.17	2.30	7.91	7.91	2.50	7.65	7.65	2.71	7.08	7.08	2.95	6.62	6.62	3.25
	22°C	27°C	9.05	4.65	2.15	8.73	4.54	2.33	8.41	4.42	2.53	8.07	4.31	2.74	7.42	4.02	2.98	6.86	3.79	3.28
		30°C	9.06	5.70	2.16	8.74	5.59	2.33	8.41	5.46	2.53	8.08	5.33	2.74	7.43	5.00	2.98	6.87	4.74	3.28
		33°C	9.08	6.68	2.16	8.76	6.56	2.34	8.44	6.42	2.53	8.11	6.29	2.75	7.46	5.90	2.98	6.91	5.60	3.28
		36°C	9.13	7.56	2.16	8.84	7.41	2.34	8.53	7.26	2.54	8.22	7.09	2.75	7.58	6.63	2.99	7.07	6.26	3.30
640	16°C	21°C	7.75	5.24	2.10	7.47	5.10	2.27	7.18	4.97	2.46	6.88	4.83	2.66	6.31	4.50	2.89	5.82	4.23	3.18
		24°C	7.79	6.36	2.10	7.51	6.21	2.27	7.23	6.06	2.46	6.94	5.90	2.67	6.37	5.51	2.89	5.88	5.19	3.19
		27°C	7.92	7.29	2.11	7.66	7.10	2.28	7.40	6.91	2.47	7.14	6.69	2.68	6.59	6.20	2.91	6.14	5.79	3.21
		30°C	8.31	8.31	2.13	8.07	8.07	2.30	7.82	7.82	2.50	7.57	7.57	2.71	7.01	7.01	2.95	6.54	6.54	3.25
	19°C	24°C	8.53	5.02	2.13	8.22	4.90	2.31	7.91	4.77	2.50	7.59	4.64	2.71	6.96	4.33	2.94	6.43	4.08	3.24
		27°C	8.56	5.81	2.13	8.25	5.68	2.31	7.94	5.55	2.50	7.62	5.41	2.72	7.00	5.06	2.94	6.47	4.79	3.24
		30°C	8.63	7.15	2.14	8.32	7.00	2.32	8.02	6.84	2.51	7.72	6.66	2.72	7.11	6.22	2.95	6.60	5.87	3.26
		33°C	8.82	8.82	2.15	8.56	8.56	2.33	8.29	8.29	2.53	8.02	8.02	2.74	7.43	7.43	2.98	6.95	6.95	3.29
	22°C	27°C	9.36	4.91	2.17	9.03	4.81	2.35	8.69	4.69	2.55	8.34	4.56	2.77	7.66	4.26	3.00	7.08	4.02	3.30
		30°C	9.38	6.06	2.17	9.05	5.94	2.36	8.71	5.81	2.55	8.36	5.68	2.77	7.68	5.32	3.00	7.10	5.04	3.31
		33°C	9.41	7.10	2.18	9.09	6.98	2.36	8.75	6.83	2.56	8.41	6.68	2.77	7.74	6.26	3.01	7.17	5.94	3.31
		36°C	9.50	8.02	2.18	9.20	7.87	2.37	8.88	7.70	2.57	8.56	7.51	2.78	7.91	7.00	3.02	7.38	6.59	3.33

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN90EXV1 - RR90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.17	8.19	5.85	2.34	7.88	5.69	2.54	7.57	5.53	2.75	6.95	5.14	2.98	6.41	4.84	3.29
		24°C	8.50	7.19	2.17	8.20	7.03	2.34	7.89	6.86	2.54	7.58	6.69	2.75	6.96	6.25	2.99	6.44	5.90	3.29
		27°C	8.57	8.15	2.17	8.28	7.97	2.35	7.99	7.78	2.54	7.69	7.58	2.76	7.09	7.06	2.99	6.60	6.60	3.30
		30°C	8.83	8.83	2.18	8.58	8.58	2.36	8.32	8.32	2.56	8.05	8.05	2.78	7.46	7.46	3.02	6.98	6.98	3.33
	19°C	24°C	9.36	5.61	2.20	9.03	5.46	2.38	8.70	5.32	2.58	8.36	5.17	2.80	7.68	4.81	3.04	7.10	4.53	3.35
		27°C	9.37	6.42	2.20	9.04	6.27	2.38	8.71	6.13	2.58	8.36	5.98	2.80	7.69	5.59	3.04	7.11	5.30	3.35
		30°C	9.38	7.92	2.20	9.06	7.75	2.38	8.74	7.58	2.58	8.41	7.39	2.80	7.74	6.91	3.04	7.18	6.54	3.35
		33°C	9.49	9.49	2.21	9.18	9.18	2.39	8.89	8.89	2.59	8.58	8.58	2.81	7.94	7.94	3.05	7.42	7.42	3.37
	22°C	27°C	10.30	5.49	2.24	9.94	5.36	2.43	9.58	5.22	2.63	9.21	5.08	2.85	8.47	4.73	3.09	7.84	4.46	3.41
		30°C	10.30	6.69	2.24	9.95	6.55	2.43	9.58	6.40	2.63	9.21	6.24	2.85	8.47	5.85	3.10	7.84	5.54	3.41
		33°C	10.31	7.81	2.24	9.95	7.66	2.43	9.59	7.51	2.63	9.21	7.35	2.85	8.48	6.90	3.10	7.86	6.56	3.41
		36°C	10.34	8.86	2.24	10.00	8.68	2.43	9.65	8.50	2.64	9.30	8.31	2.86	8.58	7.79	3.10	7.98	7.39	3.42
753	16°C	21°C	8.83	6.26	2.18	8.51	6.10	2.36	8.19	5.94	2.56	7.85	5.77	2.77	7.21	5.37	3.01	6.65	5.06	3.32
		24°C	8.86	7.60	2.19	8.54	7.42	2.36	8.22	7.25	2.56	7.89	7.06	2.78	7.25	6.59	3.01	6.70	6.22	3.32
		27°C	8.96	8.63	2.19	8.66	8.43	2.37	8.36	8.22	2.57	8.06	7.97	2.79	7.44	7.40	3.03	6.93	6.93	3.34
		30°C	9.34	9.34	2.21	9.07	9.07	2.39	8.79	8.79	2.59	8.50	8.50	2.81	7.88	7.88	3.06	7.37	7.37	3.38
	19°C	24°C	9.73	5.92	2.22	9.38	5.78	2.40	9.03	5.63	2.60	8.67	5.47	2.82	7.96	5.10	3.06	7.35	4.80	3.37
		27°C	9.74	6.82	2.22	9.40	6.67	2.40	9.05	6.52	2.61	8.68	6.37	2.83	7.98	5.95	3.06	7.37	5.64	3.38
		30°C	9.79	8.42	2.22	9.45	8.24	2.41	9.11	8.05	2.61	8.76	7.85	2.83	8.07	7.34	3.07	7.49	6.94	3.39
		33°C	9.95	9.95	2.23	9.65	9.65	2.42	9.34	9.34	2.62	9.03	9.03	2.85	8.37	8.37	3.09	7.82	7.82	3.42
	22°C	27°C	10.69	5.80	2.26	10.31	5.66	2.45	9.93	5.52	2.66	9.53	5.37	2.88	8.76	5.01	3.12	8.10	4.73	3.44
		30°C	10.70	7.12	2.26	10.32	6.97	2.45	9.94	6.81	2.66	9.54	6.66	2.88	8.77	6.23	3.12	8.11	5.92	3.44
		33°C	10.72	8.34	2.26	10.35	8.18	2.45	9.97	8.01	2.66	9.58	7.84	2.88	8.81	7.36	3.13	8.17	6.99	3.45
		36°C	10.79	9.43	2.27	10.44	9.25	2.46	10.07	9.06	2.66	9.71	8.85	2.89	8.96	8.28	3.14	8.35	7.81	3.46
840	16°C	21°C	9.16	6.53	2.20	8.82	6.37	2.38	8.48	6.20	2.58	8.13	6.03	2.80	7.46	5.61	3.03	6.87	5.28	3.34
		24°C	9.20	7.94	2.21	8.87	7.75	2.39	8.54	7.56	2.58	8.19	7.36	2.80	7.52	6.87	3.04	6.95	6.48	3.35
		27°C	9.35	9.10	2.21	9.05	8.86	2.39	8.74	8.62	2.59	8.43	8.35	2.82	7.79	7.73	3.06	7.26	7.22	3.37
		30°C	9.82	9.82	2.23	9.53	9.53	2.42	9.24	9.24	2.62	8.94	8.94	2.85	8.27	8.27	3.09	7.73	7.73	3.41
	19°C	24°C	10.08	6.27	2.24	9.71	6.11	2.42	9.34	5.96	2.63	8.96	5.79	2.85	8.23	5.40	3.09	7.59	5.09	3.40
		27°C	10.11	7.25	2.24	9.74	7.09	2.43	9.38	6.92	2.63	9.00	6.75	2.85	8.26	6.31	3.09	7.64	5.97	3.41
		30°C	10.19	8.92	2.25	9.83	8.73	2.43	9.48	8.53	2.63	9.12	8.32	2.86	8.39	7.77	3.10	7.79	7.32	3.42
		33°C	10.41	10.41	2.26	10.11	10.11	2.44	9.80	9.80	2.65	9.47	9.47	2.88	8.78	8.78	3.13	8.21	8.21	3.45
	22°C	27°C	11.06	6.13	2.28	10.67	6.00	2.47	10.26	5.85	2.68	9.85	5.69	2.90	9.05	5.31	3.15	8.36	5.02	3.47
		30°C	11.08	7.56	2.28	10.69	7.42	2.47	10.28	7.25	2.68	9.87	7.09	2.91	9.07	6.64	3.15	8.39	6.29	3.47
		33°C	11.12	8.86	2.28	10.74	8.70	2.48	10.34	8.52	2.68	9.93	8.33	2.91	9.14	7.81	3.16	8.47	7.41	3.48
		36°C	11.22	10.00	2.29	10.87	9.82	2.48	10.49	9.60	2.69	10.11	9.37	2.92	9.35	8.74	3.17	8.72	8.22	3.50

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN90EXV1 - RR90DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.05	8.19	5.85	2.22	7.88	5.69	2.41	7.57	5.53	2.61	6.95	5.14	2.83	6.41	4.84	3.12
		24°C	8.50	7.19	2.05	8.20	7.03	2.22	7.89	6.86	2.41	7.58	6.69	2.61	6.96	6.25	2.83	6.44	5.90	3.12
		27°C	8.57	8.15	2.06	8.28	7.97	2.23	7.99	7.78	2.41	7.69	7.58	2.62	7.09	7.06	2.84	6.60	6.60	3.13
		30°C	8.83	8.83	2.07	8.58	8.58	2.24	8.32	8.32	2.43	8.05	8.05	2.64	7.46	7.46	2.86	6.98	6.98	3.16
	19°C	24°C	9.36	5.61	2.09	9.03	5.46	2.26	8.70	5.32	2.45	8.36	5.17	2.65	7.68	4.81	2.88	7.10	4.53	3.17
		27°C	9.37	6.42	2.09	9.04	6.27	2.26	8.71	6.13	2.45	8.36	5.98	2.65	7.69	5.59	2.88	7.11	5.30	3.17
		30°C	9.38	7.92	2.09	9.06	7.75	2.26	8.74	7.58	2.45	8.41	7.39	2.66	7.74	6.91	2.88	7.18	6.54	3.18
		33°C	9.49	9.49	2.09	9.18	9.18	2.27	8.89	8.89	2.46	8.58	8.58	2.67	7.94	7.94	2.90	7.42	7.42	3.20
	22°C	27°C	10.30	5.49	2.12	9.94	5.36	2.30	9.58	5.22	2.49	9.21	5.08	2.71	8.47	4.73	2.94	7.84	4.46	3.23
		30°C	10.30	6.69	2.12	9.95	6.55	2.30	9.58	6.40	2.49	9.21	6.24	2.71	8.47	5.85	2.94	7.84	5.54	3.23
		33°C	10.31	7.81	2.12	9.95	7.66	2.30	9.59	7.51	2.50	9.21	7.35	2.71	8.48	6.90	2.94	7.86	6.56	3.24
		36°C	10.34	8.86	2.13	10.00	8.68	2.30	9.65	8.50	2.50	9.30	8.31	2.71	8.58	7.79	2.94	7.98	7.39	3.24
753	16°C	21°C	8.83	6.26	2.07	8.51	6.10	2.24	8.19	5.94	2.43	7.85	5.77	2.63	7.21	5.37	2.85	6.65	5.06	3.15
		24°C	8.86	7.60	2.07	8.54	7.42	2.24	8.22	7.25	2.43	7.89	7.06	2.63	7.25	6.59	2.86	6.70	6.22	3.15
		27°C	8.96	8.63	2.08	8.66	8.43	2.25	8.36	8.22	2.44	8.06	7.97	2.64	7.44	7.40	2.87	6.93	6.93	3.17
		30°C	9.34	9.34	2.09	9.07	9.07	2.27	8.79	8.79	2.46	8.50	8.50	2.67	7.88	7.88	2.90	7.37	7.37	3.20
	19°C	24°C	9.73	5.92	2.11	9.38	5.78	2.28	9.03	5.63	2.47	8.67	5.47	2.68	7.96	5.10	2.90	7.35	4.80	3.20
		27°C	9.74	6.82	2.11	9.40	6.67	2.28	9.05	6.52	2.47	8.68	6.37	2.68	7.98	5.95	2.91	7.37	5.64	3.20
		30°C	9.79	8.42	2.11	9.45	8.24	2.28	9.11	8.05	2.47	8.76	7.85	2.68	8.07	7.34	2.91	7.49	6.94	3.21
		33°C	9.95	9.95	2.12	9.65	9.65	2.29	9.34	9.34	2.49	9.03	9.03	2.70	8.37	8.37	2.93	7.82	7.82	3.24
	22°C	27°C	10.69	5.80	2.15	10.31	5.66	2.32	9.93	5.52	2.52	9.53	5.37	2.73	8.76	5.01	2.96	8.10	4.73	3.26
		30°C	10.70	7.12	2.15	10.32	6.97	2.32	9.94	6.81	2.52	9.54	6.66	2.73	8.77	6.23	2.96	8.11	5.92	3.26
		33°C	10.72	8.34	2.15	10.35	8.18	2.33	9.97	8.01	2.52	9.58	7.84	2.73	8.81	7.36	2.97	8.17	6.99	3.27
		36°C	10.79	9.43	2.15	10.44	9.25	2.33	10.07	9.06	2.53	9.71	8.85	2.74	8.96	8.28	2.98	8.35	7.81	3.28
840	16°C	21°C	9.16	6.53	2.09	8.82	6.37	2.26	8.48	6.20	2.45	8.13	6.03	2.65	7.46	5.61	2.88	6.87	5.28	3.17
		24°C	9.20	7.94	2.09	8.87	7.75	2.26	8.54	7.56	2.45	8.19	7.36	2.66	7.52	6.87	2.88	6.95	6.48	3.18
		27°C	9.35	9.10	2.10	9.05	8.86	2.27	8.74	8.62	2.46	8.43	8.35	2.67	7.79	7.73	2.90	7.26	7.22	3.20
		30°C	9.82	9.82	2.12	9.53	9.53	2.29	9.24	9.24	2.49	8.94	8.94	2.70	8.27	8.27	2.93	7.73	7.73	3.24
	19°C	24°C	10.08	6.27	2.12	9.71	6.11	2.30	9.34	5.96	2.49	8.96	5.79	2.70	8.23	5.40	2.93	7.59	5.09	3.23
		27°C	10.11	7.25	2.12	9.74	7.09	2.30	9.38	6.92	2.49	9.00	6.75	2.70	8.26	6.31	2.93	7.64	5.97	3.23
		30°C	10.19	8.92	2.13	9.83	8.73	2.31	9.48	8.53	2.50	9.12	8.32	2.71	8.39	7.77	2.94	7.79	7.32	3.24
		33°C	10.41	10.41	2.14	10.11	10.11	2.32	9.80	9.80	2.52	9.47	9.47	2.73	8.78	8.78	2.97	8.21	8.21	3.28
	22°C	27°C	11.06	6.13	2.16	10.67	6.00	2.34	10.26	5.85	2.54	9.85	5.69	2.75	9.05	5.31	2.99	8.36	5.02	3.29
		30°C	11.08	7.56	2.16	10.69	7.42	2.34	10.28	7.25	2.54	9.87	7.09	2.76	9.07	6.64	2.99	8.39	6.29	3.29
		33°C	11.12	8.86	2.17	10.74	8.70	2.35	10.34	8.52	2.55	9.93	8.33	2.76	9.14	7.81	2.99	8.47	7.41	3.30
		36°C	11.22	10.00	2.17	10.87	9.82	2.35	10.49	9.60	2.55	10.11	9.37	2.77	9.35	8.74	3.01	8.72	8.22	3.32

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN100EXV1 - RR100DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.47	7.21	3.06	10.10	7.02	3.31	9.72	6.83	3.58	9.33	6.63	3.88	8.57	6.17	4.21	7.91	5.81	4.65
		24°C	10.48	8.63	3.06	10.11	8.43	3.31	9.73	8.24	3.58	9.35	8.03	3.89	8.59	7.50	4.22	7.94	7.08	4.65
		27°C	10.56	9.78	3.06	10.21	9.56	3.31	9.85	9.34	3.59	9.48	9.10	3.89	8.75	8.47	4.23	8.14	7.95	4.66
		30°C	10.89	10.89	3.08	10.58	10.58	3.33	10.26	10.26	3.61	9.93	9.93	3.92	9.20	9.20	4.26	8.61	8.61	4.71
	19°C	24°C	11.55	6.73	3.11	11.14	6.56	3.36	10.73	6.38	3.64	10.31	6.20	3.95	9.47	5.78	4.29	8.76	5.44	4.73
		27°C	11.55	7.70	3.11	11.15	7.52	3.36	10.74	7.35	3.64	10.32	7.17	3.95	9.48	6.71	4.29	8.77	6.36	4.73
		30°C	11.57	9.50	3.11	11.17	9.30	3.37	10.78	9.09	3.65	10.37	8.87	3.96	9.55	8.30	4.29	8.86	7.85	4.73
		33°C	11.71	11.71	3.12	11.33	11.33	3.37	10.96	10.96	3.66	10.59	10.59	3.97	9.79	9.79	4.31	9.16	9.16	4.76
	22°C	27°C	12.70	6.59	3.16	12.26	6.43	3.43	11.82	6.27	3.71	11.35	6.09	4.03	10.44	5.68	4.37	9.66	5.35	4.82
		30°C	12.71	8.03	3.16	12.27	7.85	3.43	11.82	7.68	3.72	11.36	7.49	4.03	10.44	7.01	4.37	9.67	6.65	4.82
		33°C	12.71	9.37	3.16	12.27	9.19	3.43	11.83	9.01	3.72	11.36	8.83	4.03	10.46	8.29	4.37	9.69	7.87	4.82
		36°C	12.75	10.63	3.17	12.33	10.42	3.43	11.90	10.20	3.72	11.47	9.97	4.04	10.58	9.35	4.38	9.84	8.87	4.83
983	16°C	21°C	10.89	7.51	3.09	10.50	7.32	3.34	10.10	7.13	3.61	9.69	6.93	3.92	8.89	6.45	4.25	8.20	6.07	4.68
		24°C	10.92	9.12	3.09	10.53	8.91	3.34	10.14	8.69	3.62	9.73	8.48	3.92	8.94	7.91	4.25	8.26	7.46	4.69
		27°C	11.05	10.36	3.09	10.68	10.12	3.35	10.31	9.86	3.63	9.94	9.56	3.94	9.18	8.88	4.27	8.55	8.31	4.72
		30°C	11.52	11.52	3.12	11.18	11.18	3.38	10.84	10.84	3.66	10.49	10.49	3.97	9.72	9.72	4.32	9.08	9.08	4.77
	19°C	24°C	12.00	7.11	3.14	11.57	6.93	3.39	11.14	6.75	3.68	10.69	6.56	3.99	9.82	6.12	4.33	9.07	5.77	4.77
		27°C	12.02	8.19	3.14	11.59	8.01	3.40	11.16	7.83	3.68	10.71	7.64	3.99	9.84	7.14	4.33	9.10	6.76	4.77
		30°C	12.08	10.10	3.14	11.66	9.88	3.40	11.24	9.66	3.69	10.81	9.43	4.00	9.95	8.81	4.34	9.23	8.33	4.78
		33°C	12.28	12.28	3.15	11.90	11.90	3.41	11.52	11.52	3.70	11.14	11.14	4.02	10.32	10.32	4.37	9.65	9.65	4.82
	22°C	27°C	13.18	6.96	3.19	12.72	6.80	3.46	12.25	6.63	3.75	11.76	6.45	4.07	10.81	6.01	4.41	9.99	5.67	4.86
		30°C	13.20	8.54	3.19	12.73	8.36	3.46	12.26	8.18	3.75	11.77	7.99	4.07	10.82	7.48	4.41	10.01	7.10	4.86
		33°C	13.22	10.01	3.20	12.76	9.82	3.46	12.29	9.62	3.75	11.81	9.41	4.07	10.86	8.83	4.42	10.07	8.38	4.87
		36°C	13.30	11.31	3.20	12.87	11.10	3.47	12.42	10.87	3.76	11.97	10.62	4.08	11.05	9.93	4.43	10.30	9.37	4.89
1100	16°C	21°C	11.29	7.84	3.11	10.88	7.64	3.36	10.46	7.44	3.64	10.03	7.23	3.95	9.20	6.74	4.28	8.48	6.34	4.72
		24°C	11.35	9.53	3.11	10.94	9.30	3.37	10.53	9.07	3.65	10.10	8.84	3.96	9.28	8.25	4.29	8.57	7.77	4.73
		27°C	11.53	10.92	3.12	11.16	10.64	3.38	10.78	10.34	3.66	10.39	10.02	3.98	9.60	9.28	4.32	8.95	8.66	4.76
		30°C	12.11	12.11	3.15	11.76	11.76	3.41	11.40	11.40	3.70	11.02	11.02	4.02	10.20	10.20	4.37	9.53	9.53	4.82
	19°C	24°C	12.43	7.52	3.16	11.98	7.34	3.42	11.52	7.15	3.71	11.06	6.95	4.02	10.15	6.48	4.36	9.37	6.11	4.80
		27°C	12.47	8.70	3.16	12.02	8.50	3.43	11.57	8.30	3.71	11.10	8.10	4.03	10.19	7.58	4.37	9.42	7.17	4.81
		30°C	12.57	10.71	3.17	12.12	10.47	3.43	11.69	10.23	3.72	11.24	9.98	4.03	10.35	9.32	4.38	9.61	8.78	4.83
		33°C	12.84	12.84	3.19	12.47	12.47	3.45	12.08	12.08	3.75	11.68	11.68	4.07	10.82	10.82	4.42	10.12	10.12	4.88
	22°C	27°C	13.64	7.36	3.22	13.15	7.20	3.49	12.66	7.02	3.78	12.15	6.83	4.10	11.16	6.37	4.45	10.31	6.02	4.90
		30°C	13.67	9.07	3.22	13.18	8.90	3.49	12.68	8.70	3.78	12.18	8.51	4.10	11.19	7.97	4.45	10.35	7.55	4.90
		33°C	13.71	10.63	3.23	13.24	10.44	3.50	12.75	10.22	3.79	12.25	10.00	4.11	11.27	9.37	4.46	10.44	8.89	4.91
		36°C	13.84	12.00	3.23	13.40	11.78	3.51	12.94	11.53	3.80	12.47	11.24	4.13	11.53	10.48	4.48	10.75	9.87	4.94

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN100EXV1 - RR100DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.75	8.02	2.99	10.37	7.81	3.24	9.98	7.60	3.51	9.58	7.38	3.80	8.80	6.87	4.12	8.12	6.46	4.55
		24°C	10.76	9.60	2.99	10.38	9.38	3.24	10.00	9.16	3.51	9.60	8.93	3.80	8.82	8.34	4.13	8.16	7.87	4.55
		27°C	10.85	10.85	3.00	10.49	10.49	3.24	10.12	10.12	3.51	9.74	9.74	3.81	8.99	8.99	4.14	8.36	8.36	4.57
		30°C	11.18	11.18	3.01	10.86	10.86	3.26	10.53	10.53	3.54	10.19	10.19	3.84	9.45	9.45	4.17	8.84	8.84	4.61
	19°C	24°C	11.86	7.48	3.04	11.44	7.29	3.29	11.02	7.10	3.57	10.59	6.90	3.87	9.73	6.43	4.20	8.99	6.05	4.63
		27°C	11.87	8.56	3.04	11.45	8.37	3.29	11.03	8.18	3.57	10.59	7.98	3.87	9.74	7.46	4.20	9.00	7.07	4.63
		30°C	11.88	10.57	3.04	11.47	10.34	3.29	11.07	10.11	3.57	10.65	9.87	3.87	9.80	9.23	4.20	9.10	8.73	4.63
		33°C	12.02	12.02	3.05	11.63	11.63	3.30	11.26	11.26	3.58	10.87	10.87	3.89	10.06	10.06	4.22	9.40	9.40	4.66
	22°C	27°C	13.04	7.32	3.10	12.59	7.15	3.35	12.13	6.97	3.64	11.66	6.78	3.94	10.72	6.32	4.28	9.93	5.95	4.71
		30°C	13.05	8.93	3.10	12.60	8.74	3.35	12.14	8.54	3.64	11.66	8.33	3.94	10.73	7.80	4.28	9.93	7.40	4.71
		33°C	13.06	10.42	3.10	12.60	10.23	3.35	12.15	10.02	3.64	11.67	9.82	3.95	10.74	9.22	4.28	9.95	8.75	4.72
		36°C	13.10	11.82	3.10	12.67	11.58	3.36	12.23	11.34	3.64	11.78	11.09	3.95	10.86	10.40	4.29	10.10	9.87	4.73
983	16°C	21°C	11.18	8.36	3.02	10.78	8.14	3.27	10.37	7.93	3.54	9.95	7.70	3.84	9.13	7.17	4.16	8.42	6.75	4.59
		24°C	11.22	10.15	3.02	10.81	9.91	3.27	10.41	9.67	3.54	9.99	9.43	3.84	9.18	8.80	4.16	8.48	8.30	4.59
		27°C	11.35	11.35	3.03	10.97	10.97	3.28	10.59	10.59	3.55	10.21	10.21	3.85	9.43	9.43	4.18	8.78	8.78	4.62
		30°C	11.83	11.83	3.05	11.48	11.48	3.30	11.13	11.13	3.58	10.77	10.77	3.89	9.98	9.98	4.23	9.33	9.33	4.67
	19°C	24°C	12.32	7.91	3.07	11.88	7.71	3.32	11.44	7.51	3.60	10.98	7.30	3.90	10.08	6.80	4.23	9.31	6.41	4.67
		27°C	12.34	9.11	3.07	11.90	8.91	3.32	11.46	8.71	3.60	11.00	8.50	3.91	10.10	7.95	4.24	9.34	7.52	4.67
		30°C	12.40	11.24	3.07	11.97	10.99	3.33	11.54	10.75	3.61	11.10	10.48	3.91	10.22	9.80	4.25	9.48	9.26	4.68
		33°C	12.61	12.61	3.08	12.22	12.22	3.34	11.83	11.83	3.63	11.44	11.44	3.94	10.60	10.60	4.28	9.91	9.91	4.72
	22°C	27°C	13.54	7.74	3.13	13.06	7.56	3.39	12.58	7.37	3.67	12.08	7.17	3.98	11.10	6.69	4.32	10.26	6.31	4.76
		30°C	13.55	9.50	3.13	13.08	9.30	3.39	12.59	9.10	3.67	12.09	8.88	3.98	11.11	8.32	4.32	10.28	7.90	4.76
		33°C	13.58	11.13	3.13	13.11	10.92	3.39	12.63	10.70	3.68	12.13	10.47	3.99	11.16	9.82	4.32	10.34	9.32	4.76
		36°C	13.66	12.58	3.13	13.22	12.35	3.40	12.76	12.09	3.68	12.30	11.81	4.00	11.34	11.05	4.34	10.58	10.42	4.79
1100	16°C	21°C	11.60	8.72	3.04	11.17	8.50	3.29	10.74	8.28	3.57	10.30	8.04	3.87	9.45	7.49	4.19	8.71	7.05	4.62
		24°C	11.66	10.60	3.05	11.23	10.35	3.30	10.81	10.09	3.57	10.38	9.83	3.87	9.53	9.17	4.20	8.80	8.65	4.63
		27°C	11.85	11.85	3.06	11.46	11.46	3.31	11.07	11.07	3.59	10.67	10.67	3.89	9.86	9.86	4.23	9.19	9.19	4.66
		30°C	12.44	12.44	3.08	12.08	12.08	3.34	11.70	11.70	3.62	11.32	11.32	3.93	10.48	10.48	4.27	9.79	9.79	4.72
	19°C	24°C	12.77	8.37	3.10	12.30	8.16	3.35	11.84	7.95	3.63	11.35	7.73	3.94	10.42	7.21	4.27	9.62	6.80	4.70
		27°C	12.80	9.68	3.10	12.34	9.46	3.35	11.88	9.24	3.63	11.40	9.01	3.94	10.47	8.43	4.27	9.67	7.97	4.71
		30°C	12.91	11.91	3.10	12.45	11.65	3.36	12.01	11.38	3.64	11.55	11.10	3.95	10.63	10.37	4.29	9.87	9.77	4.73
		33°C	13.19	13.19	3.12	12.80	12.80	3.38	12.41	12.41	3.67	12.00	12.00	3.98	11.12	11.12	4.33	10.40	10.40	4.78
	22°C	27°C	14.01	8.18	3.15	13.51	8.00	3.42	13.00	7.80	3.70	12.48	7.60	4.01	11.46	7.09	4.35	10.59	6.70	4.79
		30°C	14.04	10.09	3.16	13.54	9.90	3.42	13.03	9.68	3.70	12.50	9.46	4.02	11.49	8.86	4.36	10.63	8.40	4.80
		33°C	14.09	11.82	3.16	13.60	11.62	3.42	13.10	11.37	3.71	12.58	11.12	4.02	11.58	10.42	4.36	10.72	9.89	4.81
		36°C	14.21	13.35	3.17	13.77	13.11	3.43	13.29	12.82	3.72	12.81	12.50	4.04	11.84	11.66	4.39	11.04	10.98	4.84

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FLRN125EXV1 - RR125DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
959	16°C	21°C	12.44	9.39	3.43	12.00	9.14	3.71	11.55	8.90	4.02	11.09	8.64	4.36	10.18	8.04	4.73	9.40	7.56	5.21
		24°C	12.45	11.24	3.43	12.01	10.98	3.71	11.57	10.73	4.02	11.11	10.46	4.36	10.20	9.77	4.73	9.44	9.22	5.22
		27°C	12.55	12.55	3.44	12.14	12.14	3.72	11.71	11.71	4.03	11.27	11.27	4.37	10.40	10.40	4.74	9.67	9.67	5.24
		30°C	12.94	12.94	3.45	12.57	12.57	3.74	12.19	12.19	4.06	11.79	11.79	4.40	10.93	10.93	4.79	10.23	10.23	5.28
	19°C	24°C	13.72	8.76	3.49	13.24	8.54	3.77	12.75	8.32	4.09	12.25	8.08	4.44	11.26	7.53	4.81	10.41	7.09	5.30
		27°C	13.73	10.03	3.49	13.24	9.80	3.77	12.76	9.58	4.09	12.26	9.35	4.44	11.27	8.74	4.81	10.42	8.28	5.30
		30°C	13.75	12.37	3.49	13.27	12.11	3.78	12.81	11.84	4.09	12.32	11.56	4.44	11.34	10.81	4.82	10.52	10.23	5.31
		33°C	13.91	13.91	3.50	13.46	13.46	3.79	13.02	13.02	4.11	12.58	12.58	4.46	11.64	11.64	4.84	10.88	10.88	5.35
	22°C	27°C	15.09	8.58	3.55	14.57	8.37	3.85	14.04	8.16	4.17	13.49	7.94	4.52	12.41	7.40	4.91	11.48	6.97	5.40
		30°C	15.10	10.45	3.55	14.58	10.23	3.85	14.04	10.00	4.17	13.49	9.76	4.52	12.41	9.14	4.91	11.49	8.67	5.41
		33°C	15.11	12.21	3.55	14.58	11.98	3.85	14.05	11.74	4.17	13.50	11.50	4.52	12.43	10.79	4.91	11.52	10.25	5.41
		36°C	15.16	13.85	3.55	14.65	13.57	3.85	14.15	13.29	4.18	13.63	12.99	4.53	12.57	12.18	4.92	11.69	11.56	5.42
1082	16°C	21°C	12.94	9.79	3.46	12.47	9.54	3.75	12.00	9.28	4.06	11.51	9.02	4.40	10.56	8.40	4.77	9.74	7.91	5.26
		24°C	12.98	11.88	3.46	12.51	11.60	3.75	12.04	11.33	4.06	11.56	11.04	4.40	10.62	10.30	4.77	9.82	9.72	5.26
		27°C	13.14	13.14	3.47	12.69	12.69	3.76	12.26	12.26	4.07	11.82	11.82	4.42	10.91	10.91	4.80	10.16	10.16	5.29
		30°C	13.68	13.68	3.50	13.29	13.29	3.79	12.88	12.88	4.11	12.46	12.46	4.46	11.55	11.55	4.85	10.79	10.79	5.35
	19°C	24°C	14.26	9.26	3.52	13.75	9.03	3.81	13.23	8.79	4.13	12.70	8.55	4.48	11.66	7.97	4.85	10.77	7.51	5.35
		27°C	14.28	10.67	3.52	13.77	10.43	3.81	13.26	10.19	4.13	12.72	9.95	4.48	11.69	9.30	4.86	10.81	8.81	5.35
		30°C	14.35	13.16	3.52	13.85	12.87	3.82	13.35	12.59	4.14	12.84	12.28	4.49	11.83	11.48	4.87	10.97	10.85	5.37
		33°C	14.59	14.59	3.54	14.14	14.14	3.83	13.69	13.69	4.16	13.24	13.24	4.51	12.26	12.26	4.90	11.46	11.46	5.41
	22°C	27°C	15.66	9.07	3.58	15.11	8.85	3.88	14.55	8.63	4.21	13.97	8.40	4.56	12.84	7.83	4.95	11.88	7.39	5.45
		30°C	15.68	11.13	3.59	15.13	10.90	3.88	14.57	10.65	4.21	13.99	10.40	4.57	12.86	9.74	4.95	11.89	9.25	5.45
		33°C	15.71	13.04	3.59	15.17	12.79	3.89	14.61	12.53	4.21	14.03	12.26	4.57	12.91	11.50	4.96	11.97	10.92	5.46
		36°C	15.81	14.74	3.59	15.30	14.46	3.90	14.76	14.16	4.22	14.23	13.83	4.58	13.13	12.94	4.97	12.24	12.21	5.49
1215	16°C	21°C	13.42	10.21	3.49	12.93	9.95	3.78	12.43	9.69	4.09	11.92	9.42	4.43	10.93	8.77	4.81	10.07	8.26	5.30
		24°C	13.49	12.41	3.49	13.00	12.12	3.78	12.51	11.82	4.09	12.00	11.51	4.44	11.03	10.74	4.81	10.19	10.13	5.31
		27°C	13.71	13.71	3.51	13.26	13.26	3.79	12.81	12.81	4.11	12.35	12.35	4.46	11.41	11.41	4.84	10.64	10.64	5.35
		30°C	14.39	14.39	3.54	13.97	13.97	3.83	13.54	13.54	4.15	13.10	13.10	4.51	12.13	12.13	4.90	11.32	11.32	5.41
	19°C	24°C	14.77	9.80	3.55	14.24	9.56	3.84	13.69	9.31	4.16	13.14	9.06	4.51	12.06	8.44	4.89	11.13	7.96	5.39
		27°C	14.81	11.34	3.55	14.28	11.08	3.84	13.74	10.82	4.17	13.19	10.55	4.52	12.11	9.87	4.90	11.19	9.34	5.40
		30°C	14.94	13.95	3.56	14.41	13.65	3.85	13.89	13.33	4.17	13.36	13.00	4.53	12.30	12.14	4.91	11.42	11.42	5.42
		33°C	15.26	15.26	3.57	14.81	14.81	3.87	14.36	14.36	4.20	13.88	13.88	4.57	12.86	12.86	4.96	12.03	12.03	5.48
	22°C	27°C	16.21	9.58	3.62	15.63	9.37	3.92	15.04	9.14	4.24	14.44	8.90	4.60	13.26	8.30	4.99	12.26	7.84	5.50
		30°C	16.24	11.82	3.62	15.66	11.59	3.92	15.07	11.34	4.25	14.47	11.08	4.61	13.29	10.38	4.99	12.29	9.84	5.50
		33°C	16.30	13.85	3.62	15.73	13.61	3.92	15.15	13.32	4.25	14.56	13.03	4.61	13.39	12.21	5.00	12.41	11.59	5.51
		36°C	16.44	15.64	3.63	15.93	15.35	3.94	15.38	15.01	4.27	14.82	14.64	4.63	13.70	13.66	5.03	12.78	12.78	5.55

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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Model: FHRN140CXV1 - RR140DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1000	16°C	21°C	15.19	10.03	4.87	14.66	9.77	5.27	14.11	9.50	5.71	13.54	9.23	6.19	12.44	8.59	6.71	11.48	8.08	7.40
		24°C	15.21	12.01	4.87	14.67	11.73	5.27	14.13	11.46	5.71	13.57	11.18	6.19	12.46	10.44	6.72	11.53	9.85	7.41
		27°C	15.33	13.62	4.88	14.82	13.31	5.28	14.30	12.99	5.72	13.76	12.66	6.20	12.70	11.78	6.74	11.82	11.07	7.43
		30°C	15.81	15.81	4.90	15.35	15.35	5.31	14.89	14.89	5.76	14.41	14.41	6.25	13.35	13.35	6.79	12.49	12.49	7.50
	19°C	24°C	16.76	9.36	4.95	16.17	9.13	5.36	15.58	8.88	5.81	14.96	8.63	6.30	13.75	8.04	6.83	12.71	7.57	7.53
		27°C	16.77	10.71	4.95	16.18	10.47	5.36	15.59	10.23	5.81	14.97	9.98	6.30	13.76	9.34	6.83	12.73	8.85	7.53
		30°C	16.80	13.22	4.95	16.22	12.94	5.36	15.64	12.65	5.81	15.05	12.35	6.30	13.86	11.55	6.84	12.85	10.93	7.54
		33°C	16.99	16.99	4.96	16.44	16.44	5.38	15.91	15.91	5.83	15.37	15.37	6.33	14.22	14.22	6.87	13.29	13.29	7.59
	22°C	27°C	18.44	9.17	5.04	17.80	8.94	5.46	17.15	8.72	5.92	16.48	8.48	6.42	15.15	7.90	6.96	14.03	7.45	7.67
		30°C	18.44	11.17	5.04	17.81	10.93	5.46	17.15	10.68	5.92	16.48	10.43	6.42	15.16	9.76	6.97	14.03	9.26	7.67
		33°C	18.45	13.04	5.04	17.81	12.80	5.46	17.17	12.54	5.92	16.49	12.28	6.42	15.18	11.53	6.97	14.07	10.95	7.68
		36°C	18.51	14.79	5.04	17.90	14.50	5.47	17.28	14.19	5.93	16.65	13.88	6.43	15.36	13.01	6.98	14.28	12.35	7.70
1320	16°C	21°C	15.81	10.47	4.92	15.24	10.20	5.32	14.66	9.93	5.76	14.07	9.65	6.24	12.91	8.98	6.77	11.91	8.45	7.46
		24°C	15.86	12.70	4.92	15.29	12.41	5.32	14.72	12.11	5.76	14.12	11.81	6.25	12.98	11.01	6.78	11.99	10.39	7.47
		27°C	16.05	14.43	4.93	15.51	14.09	5.33	14.98	13.73	5.78	14.44	13.32	6.27	13.33	12.37	6.81	12.42	11.57	7.52
		30°C	16.72	16.72	4.97	16.24	16.24	5.38	15.74	15.74	5.83	15.23	15.23	6.33	14.11	14.11	6.88	13.19	13.19	7.60
	19°C	24°C	17.42	9.90	5.00	16.80	9.65	5.41	16.17	9.40	5.86	15.52	9.14	6.35	14.25	8.52	6.89	13.17	8.03	7.59
		27°C	17.45	11.40	5.00	16.83	11.15	5.41	16.20	10.90	5.86	15.55	10.64	6.36	14.29	9.95	6.90	13.21	9.42	7.60
		30°C	17.53	14.07	5.00	16.92	13.76	5.42	16.32	13.46	5.87	15.69	13.13	6.37	14.45	12.27	6.91	13.41	11.60	7.62
		33°C	17.83	17.83	5.02	17.28	17.28	5.44	16.73	16.73	5.90	16.18	16.18	6.41	14.98	14.98	6.96	14.01	14.01	7.69
	22°C	27°C	19.14	9.69	5.09	18.47	9.47	5.51	17.78	9.23	5.98	17.07	8.98	6.48	15.69	8.37	7.03	14.51	7.90	7.74
		30°C	19.16	11.90	5.09	18.49	11.65	5.52	17.80	11.39	5.98	17.09	11.12	6.48	15.71	10.42	7.03	14.53	9.89	7.74
		33°C	19.20	13.94	5.09	18.53	13.67	5.52	17.85	13.39	5.98	17.15	13.11	6.49	15.78	12.30	7.04	14.62	11.68	7.76
		36°C	19.32	15.76	5.10	18.69	15.46	5.53	18.04	15.14	6.00	17.38	14.79	6.51	16.04	13.84	7.06	14.95	13.05	7.79
1550	16°C	21°C	16.40	10.92	4.96	15.80	10.64	5.36	15.19	10.36	5.81	14.56	10.07	6.29	13.36	9.38	6.83	12.31	8.83	7.52
		24°C	16.49	13.27	4.96	15.89	12.96	5.37	15.29	12.64	5.81	14.67	12.31	6.30	13.47	11.49	6.84	12.45	10.83	7.53
		27°C	16.75	15.21	4.98	16.20	14.82	5.39	15.66	14.40	5.84	15.09	13.96	6.34	13.95	12.93	6.88	13.00	12.07	7.59
		30°C	17.59	17.59	5.02	17.07	17.07	5.44	16.55	16.55	5.90	16.00	16.00	6.41	14.82	14.82	6.96	13.84	13.84	7.68
	19°C	24°C	18.05	10.48	5.04	17.40	10.22	5.45	16.74	9.96	5.91	16.05	9.69	6.41	14.73	9.03	6.95	13.60	8.52	7.65
		27°C	18.10	12.12	5.04	17.45	11.84	5.46	16.80	11.57	5.91	16.12	11.28	6.41	14.80	10.55	6.96	13.68	9.98	7.66
		30°C	18.25	14.92	5.05	17.61	14.59	5.47	16.98	14.26	5.93	16.33	13.90	6.43	15.03	12.98	6.98	13.95	12.24	7.69
		33°C	18.65	18.65	5.08	18.10	18.10	5.50	17.54	17.54	5.97	16.97	16.97	6.48	15.72	15.72	7.04	14.70	14.70	7.78
	22°C	27°C	19.81	10.25	5.13	19.10	10.02	5.56	18.38	9.77	6.03	17.64	9.52	6.54	16.21	8.88	7.09	14.98	8.38	7.80
		30°C	19.85	12.63	5.14	19.14	12.40	5.56	18.42	12.13	6.03	17.68	11.85	6.54	16.24	11.10	7.09	15.02	10.52	7.81
		33°C	19.92	14.81	5.14	19.23	14.55	5.57	18.52	14.24	6.04	17.79	13.93	6.55	16.37	13.05	7.11	15.16	12.39	7.83
		36°C	20.09	16.72	5.15	19.46	16.41	5.59	18.79	16.05	6.06	18.11	15.66	6.58	16.74	14.60	7.14	15.61	13.75	7.88

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

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R22 Heatpump

Model: FLQN35EXV1 - RYN35CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
350	16°C	21°C	3.56	2.62	0.97	3.44	2.56	1.05	3.31	2.49	1.14	3.18	2.42	1.24	2.92	2.25	1.34	2.69	2.11	1.48
		24°C	3.57	3.14	0.97	3.44	3.07	1.05	3.31	3.00	1.14	3.18	2.92	1.24	2.92	2.73	1.34	2.70	2.58	1.48
		27°C	3.60	3.56	0.97	3.48	3.48	1.05	3.36	3.36	1.14	3.23	3.23	1.24	2.98	2.98	1.34	2.77	2.77	1.48
		30°C	3.71	3.71	0.98	3.60	3.60	1.06	3.49	3.49	1.15	3.38	3.38	1.25	3.13	3.13	1.36	2.93	2.93	1.50
	19°C	24°C	3.93	2.45	0.99	3.79	2.39	1.07	3.65	2.32	1.16	3.51	2.26	1.26	3.23	2.10	1.36	2.98	1.98	1.50
		27°C	3.93	2.80	0.99	3.80	2.74	1.07	3.66	2.68	1.16	3.51	2.61	1.26	3.23	2.44	1.36	2.99	2.32	1.50
		30°C	3.94	3.46	0.99	3.80	3.39	1.07	3.67	3.31	1.16	3.53	3.23	1.26	3.25	3.02	1.37	3.02	2.86	1.51
		33°C	3.99	3.99	0.99	3.86	3.86	1.07	3.73	3.73	1.16	3.60	3.60	1.26	3.34	3.34	1.37	3.12	3.12	1.51
	22°C	27°C	4.33	2.40	1.01	4.18	2.34	1.09	4.02	2.28	1.18	3.87	2.22	1.28	3.56	2.07	1.39	3.29	1.95	1.53
		30°C	4.33	2.92	1.01	4.18	2.86	1.09	4.02	2.80	1.18	3.87	2.73	1.28	3.56	2.55	1.39	3.29	2.42	1.53
		33°C	4.33	3.41	1.01	4.18	3.35	1.09	4.03	3.28	1.18	3.87	3.21	1.28	3.56	3.02	1.39	3.30	2.87	1.53
		36°C	4.34	3.87	1.01	4.20	3.79	1.09	4.05	3.71	1.18	3.91	3.63	1.28	3.60	3.41	1.39	3.35	3.23	1.54
386	16°C	21°C	3.71	2.74	0.98	3.57	2.67	1.06	3.44	2.60	1.15	3.30	2.52	1.25	3.03	2.35	1.35	2.79	2.21	1.49
		24°C	3.72	3.32	0.98	3.59	3.24	1.06	3.45	3.17	1.15	3.31	3.09	1.25	3.04	2.88	1.35	2.81	2.72	1.49
		27°C	3.76	3.76	0.98	3.64	3.64	1.06	3.51	3.51	1.15	3.39	3.39	1.25	3.13	3.13	1.36	2.91	2.91	1.50
		30°C	3.92	3.92	0.99	3.81	3.81	1.07	3.69	3.69	1.16	3.57	3.57	1.26	3.31	3.31	1.37	3.09	3.09	1.52
	19°C	24°C	4.09	2.59	1.00	3.94	2.52	1.08	3.79	2.46	1.17	3.64	2.39	1.27	3.34	2.23	1.38	3.09	2.10	1.52
		27°C	4.09	2.98	1.00	3.95	2.92	1.08	3.80	2.85	1.17	3.65	2.78	1.27	3.35	2.60	1.38	3.10	2.46	1.52
		30°C	4.11	3.68	1.00	3.97	3.60	1.08	3.83	3.52	1.17	3.68	3.43	1.27	3.39	3.21	1.38	3.14	3.03	1.52
		33°C	4.18	4.18	1.00	4.05	4.05	1.09	3.92	3.92	1.18	3.79	3.79	1.28	3.51	3.51	1.39	3.29	3.29	1.53
	22°C	27°C	4.49	2.53	1.02	4.33	2.48	1.10	4.17	2.41	1.19	4.00	2.35	1.29	3.68	2.19	1.40	3.40	2.07	1.54
		30°C	4.49	3.11	1.02	4.34	3.05	1.10	4.17	2.98	1.19	4.01	2.91	1.29	3.68	2.72	1.40	3.41	2.59	1.55
		33°C	4.50	3.65	1.02	4.35	3.58	1.10	4.19	3.50	1.19	4.02	3.43	1.30	3.70	3.22	1.40	3.43	3.05	1.55
		36°C	4.53	4.12	1.02	4.38	4.04	1.10	4.23	3.96	1.20	4.08	3.87	1.30	3.76	3.62	1.41	3.51	3.41	1.56
508	16°C	21°C	3.85	2.86	0.99	3.70	2.78	1.07	3.56	2.71	1.16	3.41	2.63	1.26	3.13	2.45	1.36	2.89	2.31	1.50
		24°C	3.87	3.47	0.99	3.73	3.39	1.07	3.59	3.30	1.16	3.44	3.22	1.26	3.16	3.00	1.36	2.92	2.83	1.50
		27°C	3.93	3.93	0.99	3.80	3.80	1.08	3.67	3.67	1.17	3.54	3.54	1.26	3.27	3.27	1.37	3.05	3.05	1.51
		30°C	4.12	4.12	1.00	4.00	4.00	1.09	3.88	3.88	1.18	3.75	3.75	1.28	3.47	3.47	1.39	3.25	3.25	1.53
	19°C	24°C	4.23	2.74	1.01	4.08	2.67	1.09	3.92	2.60	1.18	3.76	2.53	1.28	3.46	2.36	1.39	3.19	2.23	1.53
		27°C	4.25	3.17	1.01	4.09	3.10	1.09	3.94	3.02	1.18	3.78	2.95	1.28	3.47	2.76	1.39	3.21	2.61	1.53
		30°C	4.28	3.90	1.01	4.13	3.81	1.09	3.98	3.73	1.18	3.83	3.63	1.28	3.52	3.39	1.39	3.27	3.20	1.54
		33°C	4.37	4.37	1.01	4.25	4.25	1.10	4.11	4.11	1.19	3.98	3.98	1.29	3.69	3.69	1.41	3.45	3.45	1.55
	22°C	27°C	4.64	2.68	1.02	4.48	2.62	1.11	4.31	2.55	1.20	4.14	2.49	1.30	3.80	2.32	1.41	3.51	2.19	1.56
		30°C	4.65	3.30	1.03	4.49	3.24	1.11	4.32	3.17	1.20	4.15	3.10	1.31	3.81	2.90	1.42	3.52	2.75	1.56
		33°C	4.67	3.87	1.03	4.51	3.80	1.11	4.34	3.72	1.21	4.17	3.64	1.31	3.84	3.41	1.42	3.56	3.24	1.56
		36°C	4.71	4.37	1.03	4.56	4.29	1.12	4.41	4.20	1.21	4.25	4.09	1.31	3.93	3.82	1.42	3.66	3.59	1.57

Model: FLQN35EXV1 - RYN35CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	2.094	2.094	2.370	2.370	2.462	2.462	3.475	3.475	4.027	4.027	4.303	4.303	4.579	4.579
17°C	2.039	2.039	2.337	2.337	2.411	2.411	3.470	3.470	3.991	3.991	4.270	4.270	4.548	4.548
19°C	1.984	1.984	2.303	2.303	2.360	2.360	3.466	3.466	3.955	3.955	4.237	4.237	4.518	4.518
21°C	1.930	1.930	2.253	2.253	2.308	2.308	3.430	3.430	3.919	3.919	4.203	4.203	4.488	4.488
23°C	1.875	1.875	2.188	2.188	2.257	2.257	3.362	3.362	3.883	3.883	4.170	4.170	4.457	4.457
25°C	1.820	1.820	2.123	2.123	2.206	2.206	3.295	3.295	3.847	3.847	4.137	4.137	4.427	4.427
27°C	1.765	1.765	2.057	2.057	2.155	2.155	3.227	3.227	3.811	3.811	4.104	4.104	4.396	4.396
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN50EXV1 - RYN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	4.84	3.33	1.31	4.67	3.24	1.41	4.49	3.15	1.53	4.31	3.06	1.66	3.96	2.85	1.80	3.66	2.68	1.99
		24°C	4.84	3.98	1.31	4.67	3.89	1.41	4.50	3.80	1.53	4.32	3.71	1.66	3.97	3.46	1.80	3.67	3.27	1.99
		27°C	4.88	4.52	1.31	4.72	4.41	1.42	4.55	4.31	1.53	4.38	4.20	1.66	4.04	3.91	1.81	3.76	3.67	1.99
		30°C	5.03	5.03	1.32	4.89	4.89	1.42	4.74	4.74	1.54	4.59	4.59	1.68	4.25	4.25	1.82	3.98	3.98	2.01
	19°C	24°C	5.34	3.11	1.33	5.15	3.03	1.44	4.96	2.95	1.56	4.76	2.86	1.69	4.38	2.67	1.83	4.05	2.51	2.02
		27°C	5.34	3.55	1.33	5.15	3.47	1.44	4.96	3.39	1.56	4.77	3.31	1.69	4.38	3.10	1.83	4.05	2.94	2.02
		30°C	5.35	4.39	1.33	5.16	4.29	1.44	4.98	4.20	1.56	4.79	4.10	1.69	4.41	3.83	1.83	4.09	3.63	2.02
		33°C	5.41	5.41	1.33	5.23	5.23	1.44	5.07	5.07	1.56	4.89	4.89	1.70	4.53	4.53	1.84	4.23	4.23	2.04
	22°C	27°C	5.87	3.04	1.35	5.67	2.97	1.46	5.46	2.89	1.59	5.25	2.81	1.72	4.82	2.62	1.87	4.47	2.47	2.06
		30°C	5.87	3.71	1.35	5.67	3.63	1.46	5.46	3.54	1.59	5.25	3.46	1.72	4.83	3.24	1.87	4.47	3.07	2.06
		33°C	5.88	4.33	1.35	5.67	4.24	1.46	5.47	4.16	1.59	5.25	4.07	1.72	4.83	3.83	1.87	4.48	3.63	2.06
		36°C	5.89	4.91	1.35	5.70	4.81	1.47	5.50	4.71	1.59	5.30	4.60	1.73	4.89	4.32	1.87	4.55	4.10	2.06
460	16°C	21°C	5.03	3.47	1.32	4.85	3.38	1.43	4.67	3.29	1.54	4.48	3.20	1.67	4.11	2.98	1.82	3.79	2.80	2.00
		24°C	5.05	4.21	1.32	4.87	4.11	1.43	4.68	4.01	1.55	4.50	3.91	1.68	4.13	3.65	1.82	3.82	3.45	2.00
		27°C	5.11	4.78	1.32	4.94	4.67	1.43	4.77	4.55	1.55	4.60	4.42	1.68	4.24	4.10	1.83	3.95	3.84	2.02
		30°C	5.32	5.32	1.33	5.17	5.17	1.44	5.01	5.01	1.56	4.85	4.85	1.70	4.49	4.49	1.85	4.20	4.20	2.04
	19°C	24°C	5.54	3.28	1.34	5.35	3.20	1.45	5.15	3.12	1.57	4.94	3.03	1.70	4.54	2.82	1.85	4.19	2.66	2.04
		27°C	5.55	3.78	1.34	5.36	3.70	1.45	5.16	3.61	1.57	4.95	3.53	1.70	4.55	3.30	1.85	4.20	3.12	2.04
		30°C	5.58	4.66	1.34	5.39	4.56	1.45	5.19	4.46	1.57	5.00	4.35	1.71	4.60	4.07	1.85	4.27	3.84	2.04
		33°C	5.67	5.67	1.35	5.50	5.50	1.46	5.33	5.33	1.58	5.15	5.15	1.72	4.77	4.77	1.87	4.46	4.46	2.06
	22°C	27°C	6.09	3.21	1.36	5.88	3.14	1.48	5.66	3.06	1.60	5.43	2.98	1.74	4.99	2.78	1.88	4.62	2.62	2.08
		30°C	6.10	3.94	1.37	5.88	3.86	1.48	5.67	3.78	1.60	5.44	3.69	1.74	5.00	3.45	1.89	4.63	3.28	2.08
		33°C	6.11	4.62	1.37	5.90	4.53	1.48	5.68	4.44	1.60	5.46	4.35	1.74	5.02	4.08	1.89	4.65	3.87	2.08
		36°C	6.15	5.22	1.37	5.95	5.12	1.48	5.74	5.02	1.61	5.53	4.90	1.75	5.10	4.59	1.89	4.76	4.33	2.09
520	16°C	21°C	5.22	3.62	1.33	5.03	3.53	1.44	4.83	3.44	1.56	4.63	3.34	1.69	4.25	3.11	1.83	3.92	2.93	2.02
		24°C	5.25	4.40	1.33	5.06	4.29	1.44	4.87	4.19	1.56	4.67	4.08	1.69	4.29	3.81	1.83	3.96	3.59	2.02
		27°C	5.33	5.04	1.33	5.16	4.91	1.44	4.98	4.77	1.57	4.80	4.63	1.70	4.44	4.29	1.84	4.14	4.00	2.04
		30°C	5.60	5.60	1.35	5.43	5.43	1.46	5.27	5.27	1.58	5.09	5.09	1.72	4.72	4.72	1.87	4.40	4.40	2.06
	19°C	24°C	5.74	3.47	1.35	5.54	3.39	1.46	5.33	3.30	1.58	5.11	3.21	1.72	4.69	2.99	1.86	4.33	2.82	2.05
		27°C	5.76	4.02	1.35	5.55	3.93	1.46	5.35	3.83	1.59	5.13	3.74	1.72	4.71	3.50	1.87	4.35	3.31	2.06
		30°C	5.81	4.94	1.35	5.60	4.84	1.47	5.40	4.73	1.59	5.20	4.61	1.72	4.78	4.30	1.87	4.44	4.06	2.06
		33°C	5.93	5.93	1.36	5.76	5.76	1.48	5.58	5.58	1.60	5.40	5.40	1.74	5.00	5.00	1.89	4.68	4.68	2.09
	22°C	27°C	6.30	3.40	1.38	6.08	3.32	1.49	5.85	3.24	1.62	5.62	3.15	1.75	5.16	2.94	1.90	4.77	2.78	2.09
		30°C	6.32	4.19	1.38	6.09	4.11	1.49	5.86	4.02	1.62	5.63	3.93	1.75	5.17	3.68	1.90	4.78	3.49	2.09
		33°C	6.34	4.91	1.38	6.12	4.82	1.49	5.89	4.72	1.62	5.66	4.62	1.76	5.21	4.33	1.91	4.83	4.11	2.10
		36°C	6.39	5.54	1.38	6.19	5.44	1.50	5.98	5.32	1.63	5.77	5.19	1.76	5.33	4.84	1.91	4.97	4.56	2.11

Model: FLQN50EXV1 - RYN50CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.278	3.278	3.710	3.710	3.854	3.854	5.438	5.438	6.302	6.302	6.735	6.735	7.167	7.167
17°C	3.192	3.192	3.680	3.680	3.770	3.770	5.432	5.432	6.228	6.228	6.662	6.662	7.096	7.096
19°C	3.106	3.106	3.649	3.649	3.686	3.686	5.425	5.425	6.154	6.154	6.589	6.589	7.025	7.025
21°C	3.020	3.020	3.573	3.573	3.603	3.603	5.358	5.358	6.080	6.080	6.517	6.517	6.954	6.954
23°C	2.934	2.934	3.450	3.450	3.519	3.519	5.229	5.229	6.005	6.005	6.444	6.444	6.883	6.883
25°C	2.848	2.848	3.327	3.327	3.435	3.435	5.101	5.101	5.931	5.931	6.371	6.371	6.812	6.812
27°C	2.762	2.762	3.204	3.204	3.352	3.352	4.973	4.973	5.857	5.857	6.299	6.299	6.741	6.741
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN50EXV1 - RYN50CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	5.00	3.44	1.34	4.82	3.35	1.45	4.64	3.26	1.57	4.46	3.17	1.70	4.09	2.95	1.84	3.78	2.77	2.03
		24°C	5.00	4.12	1.34	4.83	4.03	1.45	4.65	3.93	1.57	4.46	3.84	1.70	4.10	3.58	1.84	3.79	3.38	2.03
		27°C	5.04	4.67	1.34	4.88	4.57	1.45	4.70	4.46	1.57	4.53	4.35	1.70	4.18	4.04	1.85	3.89	3.80	2.04
		30°C	5.20	5.20	1.35	5.05	5.05	1.46	4.90	4.90	1.58	4.74	4.74	1.72	4.39	4.39	1.86	4.11	4.11	2.06
	19°C	24°C	5.51	3.21	1.36	5.32	3.13	1.47	5.12	3.05	1.59	4.92	2.96	1.73	4.52	2.76	1.87	4.18	2.60	2.07
		27°C	5.52	3.68	1.36	5.32	3.59	1.47	5.13	3.51	1.59	4.93	3.43	1.73	4.53	3.21	1.88	4.19	3.04	2.07
		30°C	5.52	4.54	1.36	5.33	4.44	1.47	5.15	4.34	1.59	4.95	4.24	1.73	4.56	3.96	1.88	4.23	3.75	2.07
		33°C	5.59	5.59	1.36	5.41	5.41	1.48	5.23	5.23	1.60	5.05	5.05	1.74	4.68	4.68	1.89	4.37	4.37	2.08
	22°C	27°C	6.06	3.15	1.38	5.85	3.07	1.50	5.64	2.99	1.62	5.42	2.91	1.76	4.98	2.71	1.91	4.61	2.56	2.11
		30°C	6.07	3.83	1.38	5.86	3.75	1.50	5.64	3.67	1.62	5.42	3.58	1.76	4.99	3.35	1.91	4.62	3.18	2.11
		33°C	6.07	4.48	1.38	5.86	4.39	1.50	5.65	4.31	1.62	5.43	4.22	1.76	4.99	3.96	1.91	4.63	3.76	2.11
		36°C	6.09	5.08	1.38	5.89	4.98	1.50	5.68	4.87	1.63	5.48	4.76	1.77	5.05	4.47	1.92	4.70	4.24	2.11
460	16°C	21°C	5.20	3.59	1.35	5.01	3.50	1.46	4.82	3.40	1.58	4.62	3.31	1.71	4.24	3.08	1.86	3.91	2.90	2.05
		24°C	5.22	4.36	1.35	5.03	4.26	1.46	4.84	4.15	1.58	4.64	4.05	1.71	4.27	3.78	1.86	3.94	3.57	2.05
		27°C	5.28	4.95	1.35	5.10	4.83	1.46	4.92	4.71	1.59	4.75	4.57	1.72	4.38	4.24	1.87	4.08	3.97	2.06
		30°C	5.50	5.50	1.36	5.34	5.34	1.48	5.18	5.18	1.60	5.01	5.01	1.74	4.64	4.64	1.89	4.34	4.34	2.08
	19°C	24°C	5.73	3.40	1.37	5.52	3.31	1.48	5.32	3.22	1.61	5.10	3.14	1.74	4.69	2.92	1.89	4.33	2.75	2.08
		27°C	5.74	3.91	1.37	5.53	3.83	1.48	5.33	3.74	1.61	5.11	3.65	1.74	4.70	3.41	1.89	4.34	3.23	2.09
		30°C	5.77	4.83	1.37	5.57	4.72	1.49	5.37	4.62	1.61	5.16	4.50	1.75	4.75	4.21	1.90	4.41	3.98	2.09
		33°C	5.86	5.86	1.38	5.68	5.68	1.49	5.50	5.50	1.62	5.32	5.32	1.76	4.93	4.93	1.91	4.61	4.61	2.11
	22°C	27°C	6.29	3.33	1.40	6.07	3.25	1.51	5.85	3.17	1.64	5.61	3.08	1.78	5.16	2.87	1.93	4.77	2.71	2.12
		30°C	6.30	4.08	1.40	6.08	4.00	1.51	5.85	3.91	1.64	5.62	3.82	1.78	5.17	3.57	1.93	4.78	3.39	2.13
		33°C	6.31	4.78	1.40	6.09	4.69	1.51	5.87	4.59	1.64	5.64	4.50	1.78	5.19	4.22	1.93	4.81	4.00	2.13
		36°C	6.35	5.41	1.40	6.15	5.30	1.52	5.93	5.19	1.65	5.72	5.07	1.79	5.27	4.75	1.94	4.92	4.48	2.14
520	16°C	21°C	5.39	3.75	1.36	5.19	3.65	1.47	4.99	3.55	1.59	4.79	3.46	1.73	4.39	3.22	1.87	4.05	3.03	2.06
		24°C	5.42	4.55	1.36	5.22	4.44	1.47	5.03	4.34	1.60	4.82	4.22	1.73	4.43	3.94	1.88	4.09	3.71	2.07
		27°C	5.51	5.22	1.37	5.33	5.08	1.48	5.15	4.94	1.60	4.96	4.79	1.74	4.59	4.43	1.89	4.27	4.14	2.08
		30°C	5.78	5.78	1.38	5.61	5.61	1.49	5.44	5.44	1.62	5.26	5.26	1.76	4.87	4.87	1.91	4.55	4.55	2.11
	19°C	24°C	5.93	3.59	1.38	5.72	3.50	1.50	5.50	3.41	1.62	5.28	3.32	1.76	4.84	3.10	1.91	4.47	2.92	2.10
		27°C	5.95	4.16	1.38	5.74	4.06	1.50	5.52	3.97	1.62	5.30	3.87	1.76	4.87	3.62	1.91	4.50	3.42	2.10
		30°C	6.00	5.12	1.39	5.79	5.00	1.50	5.58	4.89	1.63	5.37	4.77	1.76	4.94	4.45	1.91	4.59	4.20	2.11
		33°C	6.13	6.13	1.39	5.95	5.95	1.51	5.77	5.77	1.64	5.58	5.58	1.78	5.17	5.17	1.93	4.83	4.83	2.13
	22°C	27°C	6.51	3.51	1.41	6.28	3.44	1.53	6.04	3.35	1.65	5.80	3.26	1.79	5.33	3.05	1.94	4.92	2.88	2.14
		30°C	6.53	4.33	1.41	6.29	4.25	1.53	6.06	4.16	1.65	5.81	4.06	1.79	5.34	3.81	1.95	4.94	3.61	2.14
		33°C	6.55	5.08	1.41	6.32	4.99	1.53	6.09	4.88	1.66	5.85	4.78	1.80	5.38	4.48	1.95	4.99	4.25	2.15
		36°C	6.61	5.73	1.41	6.40	5.63	1.53	6.18	5.51	1.66	5.96	5.37	1.80	5.50	5.01	1.96	5.13	4.72	2.16

Model: FLQN50EXV1 - RYN50CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.326	3.326	3.764	3.764	3.910	3.910	5.518	5.518	6.394	6.394	6.833	6.833	7.271	7.271
17°C	3.238	3.238	3.712	3.712	3.823	3.823	5.511	5.511	6.306	6.306	6.745	6.745	7.183	7.183
19°C	3.151	3.151	3.660	3.660	3.735	3.735	5.504	5.504	6.218	6.218	6.656	6.656	7.094	7.094
21°C	3.064	3.064	3.578	3.578	3.648	3.648	5.428	5.428	6.130	6.130	6.568	6.568	7.006	7.006
23°C	2.977	2.977	3.465	3.465	3.561	3.561	5.282	5.282	6.042	6.042	6.480	6.480	6.918	6.918
25°C	2.890	2.890	3.353	3.353	3.473	3.473	5.136	5.136	5.954	5.954	6.392	6.392	6.829	6.829
27°C	2.803	2.803	3.240	3.240	3.386	3.386	4.991	4.991	5.866	5.866	6.303	6.303	6.741	6.741
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN60EXV1 - RYN60CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	5.53	3.86	1.50	5.33	3.76	1.62	5.13	3.66	1.75	4.93	3.55	1.90	4.52	3.31	2.06	4.18	3.11	2.27
		24°C	5.53	4.62	1.50	5.34	4.52	1.62	5.14	4.41	1.75	4.93	4.30	1.90	4.53	4.02	2.06	4.19	3.79	2.27
		27°C	5.58	5.24	1.50	5.39	5.12	1.62	5.20	5.00	1.76	5.01	4.87	1.91	4.62	4.54	2.07	4.30	4.26	2.28
		30°C	5.75	5.75	1.51	5.58	5.58	1.63	5.41	5.41	1.77	5.24	5.24	1.92	4.86	4.86	2.09	4.54	4.54	2.30
	19°C	24°C	6.09	3.60	1.52	5.88	3.51	1.65	5.67	3.42	1.78	5.44	3.32	1.93	5.00	3.10	2.10	4.62	2.91	2.31
		27°C	6.10	4.12	1.52	5.88	4.03	1.65	5.67	3.94	1.78	5.45	3.84	1.93	5.01	3.60	2.10	4.63	3.41	2.31
		30°C	6.11	5.09	1.52	5.90	4.98	1.65	5.69	4.87	1.79	5.47	4.75	1.94	5.04	4.45	2.10	4.68	4.21	2.32
		33°C	6.18	6.18	1.52	5.98	5.98	1.65	5.79	5.79	1.79	5.59	5.59	1.94	5.17	5.17	2.11	4.83	4.83	2.33
	22°C	27°C	6.71	3.53	1.55	6.47	3.44	1.68	6.24	3.36	1.82	5.99	3.26	1.97	5.51	3.04	2.14	5.10	2.87	2.36
		30°C	6.71	4.30	1.55	6.48	4.21	1.68	6.24	4.11	1.82	5.99	4.01	1.97	5.51	3.76	2.14	5.10	3.56	2.36
		33°C	6.71	5.02	1.55	6.48	4.93	1.68	6.24	4.83	1.82	6.00	4.73	1.97	5.52	4.44	2.14	5.12	4.22	2.36
		36°C	6.73	5.69	1.55	6.51	5.58	1.68	6.28	5.46	1.82	6.06	5.34	1.98	5.58	5.01	2.14	5.19	4.75	2.36
530	16°C	21°C	5.75	4.03	1.51	5.54	3.92	1.63	5.33	3.82	1.77	5.11	3.71	1.92	4.69	3.46	2.08	4.33	3.25	2.29
		24°C	5.77	4.89	1.51	5.56	4.77	1.63	5.35	4.66	1.77	5.13	4.54	1.92	4.72	4.24	2.08	4.36	4.00	2.30
		27°C	5.84	5.55	1.51	5.64	5.42	1.64	5.45	5.28	1.78	5.25	5.12	1.93	4.85	4.76	2.09	4.52	4.45	2.31
		30°C	6.08	6.08	1.53	5.90	5.90	1.65	5.72	5.72	1.79	5.54	5.54	1.95	5.13	5.13	2.11	4.80	4.80	2.33
	19°C	24°C	6.33	3.81	1.53	6.11	3.71	1.66	5.88	3.62	1.80	5.64	3.52	1.95	5.18	3.28	2.12	4.79	3.09	2.33
		27°C	6.34	4.39	1.54	6.12	4.29	1.66	5.89	4.19	1.80	5.65	4.09	1.95	5.19	3.83	2.12	4.80	3.62	2.33
		30°C	6.38	5.41	1.54	6.15	5.29	1.66	5.93	5.18	1.80	5.71	5.05	1.96	5.25	4.72	2.12	4.87	4.46	2.34
		33°C	6.48	6.48	1.54	6.28	6.28	1.67	6.08	6.08	1.81	5.88	5.88	1.97	5.45	5.45	2.14	5.09	5.09	2.36
	22°C	27°C	6.96	3.73	1.56	6.71	3.64	1.69	6.46	3.55	1.84	6.21	3.45	1.99	5.70	3.22	2.16	5.28	3.04	2.38
		30°C	6.97	4.58	1.56	6.72	4.48	1.69	6.47	4.38	1.84	6.21	4.28	1.99	5.71	4.01	2.16	5.28	3.80	2.38
		33°C	6.98	5.36	1.56	6.74	5.26	1.70	6.49	5.15	1.84	6.23	5.04	1.99	5.74	4.73	2.16	5.32	4.49	2.38
		36°C	7.02	6.06	1.57	6.80	5.95	1.70	6.56	5.82	1.84	6.32	5.69	2.00	5.83	5.32	2.17	5.44	5.02	2.39
580	16°C	21°C	5.96	4.20	1.52	5.74	4.09	1.65	5.52	3.99	1.78	5.29	3.87	1.93	4.86	3.61	2.10	4.48	3.40	2.31
		24°C	5.99	5.10	1.52	5.77	4.98	1.65	5.56	4.86	1.79	5.33	4.73	1.94	4.90	4.42	2.10	4.53	4.17	2.31
		27°C	6.09	5.85	1.53	5.89	5.70	1.65	5.69	5.54	1.79	5.49	5.37	1.95	5.07	4.97	2.11	4.73	4.64	2.33
		30°C	6.39	6.39	1.54	6.21	6.21	1.67	6.02	6.02	1.81	5.82	5.82	1.97	5.39	5.39	2.14	5.03	5.03	2.36
	19°C	24°C	6.56	4.03	1.55	6.32	3.93	1.68	6.08	3.83	1.82	5.84	3.73	1.97	5.36	3.47	2.13	4.95	3.28	2.35
		27°C	6.58	4.66	1.55	6.34	4.56	1.68	6.11	4.45	1.82	5.86	4.34	1.97	5.38	4.06	2.14	4.97	3.84	2.35
		30°C	6.64	5.74	1.55	6.40	5.61	1.68	6.17	5.48	1.82	5.93	5.35	1.97	5.46	4.99	2.14	5.07	4.71	2.36
		33°C	6.78	6.78	1.56	6.58	6.58	1.69	6.38	6.38	1.83	6.17	6.17	1.99	5.71	5.71	2.16	5.34	5.34	2.39
	22°C	27°C	7.20	3.94	1.58	6.94	3.86	1.71	6.68	3.76	1.85	6.41	3.66	2.01	5.89	3.42	2.18	5.45	3.23	2.40
		30°C	7.22	4.86	1.58	6.96	4.77	1.71	6.70	4.66	1.85	6.43	4.56	2.01	5.91	4.27	2.18	5.46	4.05	2.40
		33°C	7.24	5.70	1.58	6.99	5.60	1.71	6.73	5.48	1.86	6.47	5.36	2.01	5.95	5.02	2.18	5.51	4.77	2.40
		36°C	7.30	6.43	1.58	7.08	6.31	1.72	6.83	6.18	1.86	6.59	6.02	2.02	6.08	5.62	2.19	5.68	5.29	2.42

Model: FLQN60EXV1 - RYN60CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.898	3.898	4.412	4.412	4.583	4.583	6.467	6.467	7.495	7.495	8.009	8.009	8.523	8.523
17°C	3.796	3.796	4.347	4.347	4.488	4.488	6.459	6.459	7.431	7.431	7.950	7.950	8.470	8.470
19°C	3.694	3.694	4.282	4.282	4.393	4.393	6.452	6.452	7.367	7.367	7.892	7.892	8.417	8.417
21°C	3.591	3.591	4.190	4.190	4.298	4.298	6.387	6.387	7.304	7.304	7.834	7.834	8.364	8.364
23°C	3.489	3.489	4.071	4.071	4.204	4.204	6.264	6.264	7.240	7.240	7.776	7.776	8.312	8.312
25°C	3.387	3.387	3.951	3.951	4.109	4.109	6.142	6.142	7.176	7.176	7.718	7.718	8.259	8.259
27°C	3.285	3.285	3.832	3.832	4.014	4.014	6.019	6.019	7.113	7.113	7.659	7.659	8.206	8.206
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN60EXV1 - RYN60CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	6.32	4.41	1.69	6.09	4.30	1.83	5.87	4.18	1.98	5.63	4.06	2.15	5.17	3.78	2.33	4.77	3.56	2.57
		24°C	6.33	5.28	1.69	6.10	5.16	1.83	5.88	5.04	1.99	5.64	4.92	2.15	5.18	4.59	2.34	4.79	4.33	2.57
		27°C	6.38	5.99	1.70	6.16	5.85	1.84	5.95	5.72	1.99	5.72	5.57	2.16	5.28	5.18	2.34	4.91	4.87	2.58
		30°C	6.57	6.57	1.71	6.38	6.38	1.85	6.19	6.19	2.00	5.99	5.99	2.17	5.55	5.55	2.36	5.20	5.20	2.61
	19°C	24°C	6.97	4.12	1.72	6.72	4.02	1.86	6.48	3.91	2.02	6.22	3.80	2.19	5.72	3.54	2.38	5.29	3.33	2.62
		27°C	6.97	4.71	1.72	6.73	4.61	1.86	6.48	4.50	2.02	6.23	4.39	2.19	5.72	4.11	2.38	5.29	3.89	2.62
		30°C	6.98	5.82	1.72	6.74	5.69	1.86	6.50	5.57	2.02	6.26	5.43	2.19	5.76	5.08	2.38	5.35	4.81	2.62
		33°C	7.07	7.07	1.73	6.84	6.84	1.87	6.62	6.62	2.03	6.39	6.39	2.20	5.91	5.91	2.39	5.53	5.53	2.64
	22°C	27°C	7.67	4.03	1.75	7.40	3.93	1.90	7.13	3.84	2.06	6.85	3.73	2.23	6.30	3.48	2.42	5.83	3.28	2.67
		30°C	7.67	4.91	1.75	7.40	4.81	1.90	7.13	4.70	2.06	6.85	4.59	2.23	6.30	4.30	2.42	5.84	4.07	2.67
		33°C	7.67	5.74	1.75	7.41	5.63	1.90	7.14	5.52	2.06	6.86	5.40	2.23	6.31	5.07	2.42	5.85	4.82	2.67
		36°C	7.70	6.51	1.75	7.44	6.38	1.90	7.19	6.24	2.06	6.92	6.11	2.24	6.39	5.73	2.43	5.94	5.43	2.68
530	16°C	21°C	6.57	4.60	1.71	6.34	4.48	1.85	6.10	4.36	2.00	5.85	4.24	2.17	5.36	3.95	2.35	4.95	3.72	2.60
		24°C	6.59	5.59	1.71	6.36	5.45	1.85	6.12	5.32	2.00	5.87	5.19	2.17	5.39	4.84	2.36	4.99	4.57	2.60
		27°C	6.67	6.34	1.71	6.45	6.20	1.85	6.23	6.04	2.01	6.00	5.86	2.18	5.54	5.44	2.37	5.16	5.09	2.61
		30°C	6.95	6.95	1.73	6.75	6.75	1.87	6.54	6.54	2.03	6.33	6.33	2.20	5.87	5.87	2.39	5.48	5.48	2.64
	19°C	24°C	7.24	4.35	1.74	6.98	4.24	1.88	6.72	4.13	2.04	6.45	4.02	2.21	5.92	3.75	2.40	5.47	3.53	2.64
		27°C	7.25	5.01	1.74	7.00	4.90	1.88	6.73	4.79	2.04	6.46	4.68	2.21	5.94	4.37	2.40	5.49	4.14	2.64
		30°C	7.29	6.19	1.74	7.04	6.05	1.88	6.78	5.92	2.04	6.52	5.77	2.21	6.01	5.40	2.40	5.57	5.10	2.65
		33°C	7.41	7.41	1.75	7.18	7.18	1.89	6.96	6.96	2.05	6.72	6.72	2.23	6.23	6.23	2.42	5.82	5.82	2.67
	22°C	27°C	7.96	4.26	1.77	7.68	4.16	1.92	7.39	4.06	2.08	7.10	3.95	2.25	6.52	3.68	2.44	6.03	3.47	2.69
		30°C	7.97	5.23	1.77	7.69	5.12	1.92	7.40	5.01	2.08	7.11	4.89	2.25	6.53	4.58	2.44	6.04	4.35	2.69
		33°C	7.98	6.13	1.77	7.70	6.01	1.92	7.42	5.89	2.08	7.13	5.76	2.26	6.56	5.41	2.45	6.08	5.13	2.70
		36°C	8.03	6.93	1.77	7.77	6.80	1.92	7.50	6.66	2.09	7.23	6.50	2.26	6.67	6.08	2.46	6.22	5.74	2.71
580	16°C	21°C	6.82	4.80	1.72	6.57	4.68	1.86	6.31	4.56	2.02	6.05	4.43	2.19	5.55	4.12	2.37	5.12	3.88	2.62
		24°C	6.85	5.83	1.73	6.60	5.70	1.87	6.35	5.56	2.02	6.10	5.41	2.19	5.60	5.05	2.38	5.17	4.76	2.62
		27°C	6.96	6.69	1.73	6.73	6.51	1.87	6.51	6.33	2.03	6.27	6.14	2.20	5.80	5.68	2.39	5.40	5.31	2.64
		30°C	7.31	7.31	1.75	7.10	7.10	1.89	6.88	6.88	2.05	6.65	6.65	2.23	6.16	6.16	2.42	5.75	5.75	2.67
	19°C	24°C	7.50	4.61	1.75	7.23	4.49	1.90	6.96	4.38	2.05	6.67	4.26	2.23	6.12	3.97	2.42	5.65	3.74	2.66
		27°C	7.52	5.33	1.75	7.25	5.21	1.90	6.98	5.08	2.06	6.70	4.96	2.23	6.15	4.64	2.42	5.69	4.39	2.66
		30°C	7.59	6.56	1.76	7.32	6.41	1.90	7.06	6.27	2.06	6.79	6.11	2.24	6.25	5.71	2.43	5.80	5.38	2.67
		33°C	7.75	7.75	1.76	7.52	7.52	1.91	7.29	7.29	2.08	7.05	7.05	2.25	6.53	6.53	2.45	6.11	6.11	2.70
	22°C	27°C	8.23	4.50	1.79	7.94	4.41	1.93	7.64	4.30	2.10	7.33	4.18	2.27	6.74	3.90	2.46	6.23	3.69	2.71
		30°C	8.25	5.55	1.79	7.96	5.45	1.93	7.66	5.33	2.10	7.35	5.21	2.27	6.75	4.88	2.47	6.24	4.62	2.72
		33°C	8.28	6.51	1.79	7.99	6.40	1.94	7.70	6.26	2.10	7.40	6.12	2.28	6.80	5.74	2.47	6.30	5.45	2.72
		36°C	8.35	7.35	1.79	8.09	7.22	1.94	7.81	7.06	2.11	7.53	6.88	2.29	6.96	6.42	2.48	6.49	6.04	2.74

Model: FLQN60EXV1 - RYN60CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.110	4.110	4.652	4.652	4.833	4.833	6.820	6.820	7.904	7.904	8.446	8.446	8.987	8.987
17°C	4.003	4.003	4.538	4.538	4.724	4.724	6.812	6.812	7.790	7.790	8.331	8.331	8.872	8.872
19°C	3.895	3.895	4.424	4.424	4.615	4.615	6.804	6.804	7.676	7.676	8.216	8.216	8.756	8.756
21°C	3.787	3.787	4.315	4.315	4.506	4.506	6.706	6.706	7.562	7.562	8.102	8.102	8.641	8.641
23°C	3.679	3.679	4.210	4.210	4.397	4.397	6.520	6.520	7.448	7.448	7.987	7.987	8.525	8.525
25°C	3.572	3.572	4.105	4.105	4.288	4.288	6.334	6.334	7.335	7.335	7.872	7.872	8.410	8.410
27°C	3.464	3.464	4.001	4.001	4.180	4.180	6.147	6.147	7.221	7.221	7.758	7.758	8.294	8.294
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN71EXV1 - RQ71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.45	4.99	2.09	7.18	4.86	2.26	6.92	4.73	2.45	6.64	4.59	2.66	6.10	4.27	2.88	5.63	4.02	3.18
		24°C	7.46	5.97	2.09	7.19	5.84	2.26	6.93	5.70	2.45	6.65	5.56	2.66	6.11	5.19	2.88	5.65	4.90	3.18
		27°C	7.52	6.77	2.10	7.27	6.62	2.27	7.01	6.46	2.46	6.75	6.30	2.66	6.23	5.86	2.89	5.79	5.50	3.19
		30°C	7.75	7.75	2.11	7.53	7.53	2.28	7.30	7.30	2.47	7.06	7.06	2.68	6.55	6.55	2.92	6.12	6.12	3.22
	19°C	24°C	8.22	4.66	2.12	7.93	4.54	2.30	7.64	4.42	2.49	7.33	4.29	2.70	6.74	4.00	2.93	6.23	3.77	3.23
		27°C	8.22	5.33	2.13	7.93	5.21	2.30	7.64	5.09	2.49	7.34	4.97	2.70	6.75	4.65	2.93	6.24	4.40	3.23
		30°C	8.23	6.58	2.13	7.95	6.44	2.30	7.67	6.29	2.49	7.38	6.14	2.71	6.79	5.74	2.94	6.30	5.44	3.24
		33°C	8.33	8.33	2.13	8.06	8.06	2.31	7.80	7.80	2.50	7.53	7.53	2.72	6.97	6.97	2.95	6.52	6.52	3.26
	22°C	27°C	9.04	4.56	2.16	8.73	4.45	2.34	8.41	4.34	2.54	8.08	4.22	2.76	7.43	3.93	2.99	6.88	3.71	3.29
		30°C	9.04	5.56	2.16	8.73	5.44	2.34	8.41	5.31	2.54	8.08	5.19	2.76	7.43	4.86	2.99	6.88	4.61	3.29
		33°C	9.05	6.49	2.16	8.73	6.37	2.34	8.41	6.24	2.54	8.09	6.11	2.76	7.44	5.74	2.99	6.90	5.45	3.30
		36°C	9.08	7.36	2.17	8.78	7.21	2.35	8.47	7.06	2.55	8.16	6.90	2.76	7.53	6.47	3.00	7.00	6.14	3.30
560	16°C	21°C	7.75	5.20	2.11	7.47	5.07	2.28	7.19	4.94	2.47	6.89	4.80	2.68	6.33	4.47	2.91	5.84	4.20	3.20
		24°C	7.77	6.32	2.11	7.49	6.17	2.28	7.21	6.02	2.47	6.92	5.87	2.68	6.36	5.48	2.91	5.88	5.17	3.21
		27°C	7.87	7.17	2.12	7.60	7.01	2.29	7.34	6.83	2.48	7.08	6.62	2.69	6.53	6.15	2.92	6.09	5.76	3.23
		30°C	8.20	8.20	2.13	7.96	7.96	2.31	7.72	7.72	2.50	7.46	7.46	2.72	6.92	6.92	2.95	6.46	6.46	3.26
	19°C	24°C	8.54	4.92	2.14	8.23	4.80	2.32	7.93	4.67	2.52	7.61	4.55	2.73	6.99	4.24	2.96	6.45	3.99	3.26
		27°C	8.55	5.67	2.15	8.25	5.55	2.32	7.94	5.42	2.52	7.62	5.29	2.73	7.00	4.95	2.96	6.47	4.68	3.26
		30°C	8.59	7.00	2.15	8.30	6.84	2.33	8.00	6.69	2.52	7.69	6.53	2.73	7.08	6.10	2.97	6.57	5.77	3.27
		33°C	8.74	8.74	2.16	8.47	8.47	2.34	8.20	8.20	2.53	7.93	7.93	2.75	7.34	7.34	2.99	6.87	6.87	3.30
	22°C	27°C	9.38	4.82	2.18	9.05	4.71	2.37	8.71	4.59	2.57	8.37	4.46	2.78	7.69	4.16	3.02	7.11	3.93	3.32
		30°C	9.39	5.92	2.19	9.06	5.79	2.37	8.72	5.66	2.57	8.38	5.53	2.78	7.70	5.18	3.02	7.12	4.92	3.32
		33°C	9.41	6.93	2.19	9.08	6.80	2.37	8.75	6.66	2.57	8.40	6.52	2.79	7.73	6.11	3.02	7.17	5.81	3.33
		36°C	9.47	7.84	2.19	9.16	7.69	2.37	8.84	7.53	2.57	8.52	7.35	2.79	7.86	6.88	3.03	7.33	6.49	3.34
640	16°C	21°C	8.04	5.43	2.13	7.74	5.29	2.30	7.45	5.15	2.49	7.14	5.01	2.70	6.55	4.67	2.93	6.03	4.39	3.23
		24°C	8.08	6.60	2.13	7.79	6.44	2.30	7.49	6.28	2.50	7.19	6.12	2.71	6.60	5.71	2.93	6.10	5.38	3.23
		27°C	8.21	7.56	2.14	7.94	7.37	2.31	7.67	7.16	2.51	7.40	6.94	2.72	6.84	6.43	2.95	6.37	6.00	3.26
		30°C	8.62	8.62	2.15	8.37	8.37	2.33	8.11	8.11	2.53	7.84	7.84	2.75	7.26	7.26	2.99	6.78	6.78	3.30
	19°C	24°C	8.85	5.21	2.16	8.53	5.08	2.34	8.20	4.95	2.54	7.87	4.82	2.75	7.22	4.49	2.98	6.67	4.23	3.29
		27°C	8.87	6.03	2.16	8.55	5.89	2.34	8.23	5.75	2.54	7.90	5.61	2.75	7.25	5.25	2.99	6.70	4.96	3.29
		30°C	8.95	7.42	2.17	8.63	7.25	2.35	8.32	7.09	2.54	8.00	6.91	2.76	7.37	6.45	2.99	6.84	6.08	3.30
		33°C	9.14	9.14	2.18	8.87	8.87	2.36	8.60	8.60	2.56	8.32	8.32	2.78	7.70	7.70	3.02	7.20	7.20	3.34
	22°C	27°C	9.71	5.10	2.20	9.36	4.98	2.39	9.01	4.86	2.59	8.65	4.73	2.81	7.94	4.41	3.04	7.34	4.17	3.35
		30°C	9.73	6.28	2.20	9.38	6.16	2.39	9.03	6.03	2.59	8.67	5.89	2.81	7.96	5.52	3.04	7.36	5.23	3.35
		33°C	9.76	7.36	2.21	9.42	7.23	2.39	9.08	7.08	2.59	8.72	6.92	2.81	8.02	6.49	3.05	7.43	6.16	3.36
		36°C	9.85	8.31	2.21	9.54	8.16	2.40	9.21	7.98	2.60	8.88	7.78	2.82	8.20	7.26	3.06	7.65	6.84	3.38

Model: FLQN71EXV1 - RQ71CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.881	4.881	5.525	5.525	5.739	5.739	8.099	8.099	9.386	9.386	10.029	10.029	10.673	10.673
17°C	4.753	4.753	5.659	5.659	5.624	5.624	8.089	8.089	9.324	9.324	9.977	9.977	10.631	10.631
19°C	4.625	4.625	5.794	5.794	5.509	5.509	8.079	8.079	9.263	9.263	9.926	9.926	10.589	10.589
21°C	4.497	4.497	5.712	5.712	5.394	5.394	8.009	8.009	9.202	9.202	9.874	9.874	10.547	10.547
23°C	4.369	4.369	5.413	5.413	5.278	5.278	7.879	7.879	9.141	9.141	9.823	9.823	10.505	10.505
25°C	4.241	4.241	5.114	5.114	5.163	5.163	7.748	7.748	9.080	9.080	9.771	9.771	10.463	10.463
27°C	4.113	4.113	4.814	4.814	5.048	5.048	7.617	7.617	9.019	9.019	9.720	9.720	10.421	10.421
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN71EXV1 - RQ71CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.18	4.81	2.06	6.93	4.69	2.23	6.67	4.56	2.42	6.40	4.43	2.62	5.88	4.12	2.84	5.43	3.88	3.13
		24°C	7.19	5.76	2.06	6.94	5.63	2.23	6.68	5.50	2.42	6.41	5.36	2.62	5.89	5.01	2.84	5.45	4.72	3.13
		27°C	7.25	6.53	2.07	7.01	6.38	2.24	6.76	6.23	2.42	6.51	6.07	2.63	6.00	5.65	2.85	5.59	5.31	3.15
		30°C	7.47	7.47	2.08	7.26	7.26	2.25	7.04	7.04	2.44	6.81	6.81	2.65	6.31	6.31	2.88	5.91	5.91	3.18
	19°C	24°C	7.92	4.49	2.10	7.65	4.38	2.27	7.37	4.26	2.46	7.07	4.14	2.67	6.50	3.86	2.89	6.01	3.63	3.19
		27°C	7.93	5.14	2.10	7.65	5.02	2.27	7.37	4.91	2.46	7.08	4.79	2.67	6.51	4.48	2.89	6.02	4.24	3.19
		30°C	7.94	6.34	2.10	7.67	6.21	2.27	7.40	6.07	2.46	7.12	5.92	2.67	6.55	5.54	2.90	6.08	5.24	3.19
		33°C	8.04	8.04	2.10	7.77	7.77	2.28	7.52	7.52	2.47	7.27	7.27	2.68	6.72	6.72	2.91	6.28	6.28	3.21
	22°C	27°C	8.72	4.40	2.13	8.42	4.29	2.31	8.11	4.18	2.51	7.79	4.07	2.72	7.17	3.79	2.95	6.63	3.57	3.25
		30°C	8.72	5.36	2.13	8.42	5.24	2.31	8.11	5.12	2.51	7.79	5.00	2.72	7.17	4.68	2.95	6.64	4.44	3.25
		33°C	8.73	6.26	2.13	8.42	6.14	2.31	8.12	6.02	2.51	7.80	5.89	2.72	7.18	5.53	2.95	6.65	5.25	3.25
		36°C	8.75	7.10	2.14	8.46	6.95	2.31	8.17	6.81	2.51	7.87	6.66	2.72	7.26	6.24	2.96	6.75	5.92	3.26
560	16°C	21°C	7.48	5.02	2.08	7.21	4.89	2.25	6.93	4.76	2.44	6.65	4.63	2.64	6.10	4.31	2.87	5.63	4.05	3.16
		24°C	7.50	6.09	2.08	7.23	5.95	2.25	6.96	5.81	2.44	6.68	5.66	2.65	6.13	5.28	2.87	5.67	4.98	3.16
		27°C	7.59	6.92	2.09	7.33	6.76	2.26	7.08	6.58	2.45	6.83	6.39	2.66	6.30	5.93	2.88	5.87	5.55	3.18
		30°C	7.90	7.90	2.10	7.68	7.68	2.28	7.44	7.44	2.47	7.20	7.20	2.68	6.67	6.67	2.91	6.24	6.24	3.22
	19°C	24°C	8.24	4.75	2.12	7.94	4.63	2.29	7.64	4.51	2.48	7.34	4.38	2.69	6.74	4.09	2.92	6.22	3.85	3.21
		27°C	8.25	5.47	2.12	7.96	5.35	2.29	7.66	5.23	2.48	7.35	5.10	2.69	6.75	4.77	2.92	6.24	4.52	3.22
		30°C	8.29	6.75	2.12	8.00	6.60	2.29	7.71	6.45	2.49	7.42	6.29	2.70	6.83	5.89	2.93	6.34	5.56	3.23
		33°C	8.43	8.43	2.13	8.17	8.17	2.30	7.91	7.91	2.50	7.65	7.65	2.71	7.08	7.08	2.95	6.62	6.62	3.25
	22°C	27°C	9.05	4.65	2.15	8.73	4.54	2.33	8.41	4.42	2.53	8.07	4.31	2.74	7.42	4.02	2.98	6.86	3.79	3.28
		30°C	9.06	5.70	2.16	8.74	5.59	2.33	8.41	5.46	2.53	8.08	5.33	2.74	7.43	5.00	2.98	6.87	4.74	3.28
		33°C	9.08	6.68	2.16	8.76	6.56	2.34	8.44	6.42	2.53	8.11	6.29	2.75	7.46	5.90	2.98	6.91	5.60	3.28
		36°C	9.13	7.56	2.16	8.84	7.41	2.34	8.53	7.26	2.54	8.22	7.09	2.75	7.58	6.63	2.99	7.07	6.26	3.30
640	16°C	21°C	7.75	5.24	2.10	7.47	5.10	2.27	7.18	4.97	2.46	6.88	4.83	2.66	6.31	4.50	2.89	5.82	4.23	3.18
		24°C	7.79	6.36	2.10	7.51	6.21	2.27	7.23	6.06	2.46	6.94	5.90	2.67	6.37	5.51	2.89	5.88	5.19	3.19
		27°C	7.92	7.29	2.11	7.66	7.10	2.28	7.40	6.91	2.47	7.14	6.69	2.68	6.59	6.20	2.91	6.14	5.79	3.21
		30°C	8.31	8.31	2.13	8.07	8.07	2.30	7.82	7.82	2.50	7.57	7.57	2.71	7.01	7.01	2.95	6.54	6.54	3.25
	19°C	24°C	8.53	5.02	2.13	8.22	4.90	2.31	7.91	4.77	2.50	7.59	4.64	2.71	6.96	4.33	2.94	6.43	4.08	3.24
		27°C	8.56	5.81	2.13	8.25	5.68	2.31	7.94	5.55	2.50	7.62	5.41	2.72	7.00	5.06	2.94	6.47	4.79	3.24
		30°C	8.63	7.15	2.14	8.32	7.00	2.32	8.02	6.84	2.51	7.72	6.66	2.72	7.11	6.22	2.95	6.60	5.87	3.26
		33°C	8.82	8.82	2.15	8.56	8.56	2.33	8.29	8.29	2.53	8.02	8.02	2.74	7.43	7.43	2.98	6.95	6.95	3.29
	22°C	27°C	9.36	4.91	2.17	9.03	4.81	2.35	8.69	4.69	2.55	8.34	4.56	2.77	7.66	4.26	3.00	7.08	4.02	3.30
		30°C	9.38	6.06	2.17	9.05	5.94	2.36	8.71	5.81	2.55	8.36	5.68	2.77	7.68	5.32	3.00	7.10	5.04	3.31
		33°C	9.41	7.10	2.18	9.09	6.98	2.36	8.75	6.83	2.56	8.41	6.68	2.77	7.74	6.26	3.01	7.17	5.94	3.31
		36°C	9.50	8.02	2.18	9.20	7.87	2.37	8.88	7.70	2.57	8.56	7.51	2.78	7.91	7.00	3.02	7.38	6.59	3.33

Model: FLQN71EXV1 - RQ71CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.713	4.713	5.334	5.334	5.541	5.541	7.819	7.819	9.062	9.062	9.683	9.683	10.304	10.304
17°C	4.589	4.589	5.545	5.545	5.424	5.424	7.810	7.810	8.971	8.971	9.597	9.597	10.223	10.223
19°C	4.466	4.466	5.756	5.756	5.307	5.307	7.801	7.801	8.881	8.881	9.512	9.512	10.142	10.142
21°C	4.342	4.342	5.684	5.684	5.190	5.190	7.714	7.714	8.790	8.790	9.426	9.426	10.061	10.061
23°C	4.219	4.219	5.330	5.330	5.072	5.072	7.549	7.549	8.700	8.700	9.340	9.340	9.980	9.980
25°C	4.095	4.095	4.976	4.976	4.955	4.955	7.384	7.384	8.610	8.610	9.254	9.254	9.899	9.899
27°C	3.972	3.972	4.621	4.621	4.838	4.838	7.220	7.220	8.519	8.519	9.169	9.169	9.818	9.818
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN90EXV1 - RQ90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.17	8.19	5.85	2.34	7.88	5.69	2.54	7.57	5.53	2.75	6.95	5.14	2.98	6.41	4.84	3.29
		24°C	8.50	7.19	2.17	8.20	7.03	2.34	7.89	6.86	2.54	7.58	6.69	2.75	6.96	6.25	2.99	6.44	5.90	3.29
		27°C	8.57	8.15	2.17	8.28	7.97	2.35	7.99	7.78	2.54	7.69	7.58	2.76	7.09	7.06	2.99	6.60	6.60	3.30
		30°C	8.83	8.83	2.18	8.58	8.58	2.36	8.32	8.32	2.56	8.05	8.05	2.78	7.46	7.46	3.02	6.98	6.98	3.33
	19°C	24°C	9.36	5.61	2.20	9.03	5.46	2.38	8.70	5.32	2.58	8.36	5.17	2.80	7.68	4.81	3.04	7.10	4.53	3.35
		27°C	9.37	6.42	2.20	9.04	6.27	2.38	8.71	6.13	2.58	8.36	5.98	2.80	7.69	5.59	3.04	7.11	5.30	3.35
		30°C	9.38	7.92	2.20	9.06	7.75	2.38	8.74	7.58	2.58	8.41	7.39	2.80	7.74	6.91	3.04	7.18	6.54	3.35
		33°C	9.49	9.49	2.21	9.18	9.18	2.39	8.89	8.89	2.59	8.58	8.58	2.81	7.94	7.94	3.05	7.42	7.42	3.37
	22°C	27°C	10.30	5.49	2.24	9.94	5.36	2.43	9.58	5.22	2.63	9.21	5.08	2.85	8.47	4.73	3.09	7.84	4.46	3.41
		30°C	10.30	6.69	2.24	9.95	6.55	2.43	9.58	6.40	2.63	9.21	6.24	2.85	8.47	5.85	3.10	7.84	5.54	3.41
		33°C	10.31	7.81	2.24	9.95	7.66	2.43	9.59	7.51	2.63	9.21	7.35	2.85	8.48	6.90	3.10	7.86	6.56	3.41
		36°C	10.34	8.86	2.24	10.00	8.68	2.43	9.65	8.50	2.64	9.30	8.31	2.86	8.58	7.79	3.10	7.98	7.39	3.42
753	16°C	21°C	8.83	6.26	2.18	8.51	6.10	2.36	8.19	5.94	2.56	7.85	5.77	2.77	7.21	5.37	3.01	6.65	5.06	3.32
		24°C	8.86	7.60	2.19	8.54	7.42	2.36	8.22	7.25	2.56	7.89	7.06	2.78	7.25	6.59	3.01	6.70	6.22	3.32
		27°C	8.96	8.63	2.19	8.66	8.43	2.37	8.36	8.22	2.57	8.06	7.97	2.79	7.44	7.40	3.03	6.93	6.93	3.34
		30°C	9.34	9.34	2.21	9.07	9.07	2.39	8.79	8.79	2.59	8.50	8.50	2.81	7.88	7.88	3.06	7.37	7.37	3.38
	19°C	24°C	9.73	5.92	2.22	9.38	5.78	2.40	9.03	5.63	2.60	8.67	5.47	2.82	7.96	5.10	3.06	7.35	4.80	3.37
		27°C	9.74	6.82	2.22	9.40	6.67	2.40	9.05	6.52	2.61	8.68	6.37	2.83	7.98	5.95	3.06	7.37	5.64	3.38
		30°C	9.79	8.42	2.22	9.45	8.24	2.41	9.11	8.05	2.61	8.76	7.85	2.83	8.07	7.34	3.07	7.49	6.94	3.39
		33°C	9.95	9.95	2.23	9.65	9.65	2.42	9.34	9.34	2.62	9.03	9.03	2.85	8.37	8.37	3.09	7.82	7.82	3.42
	22°C	27°C	10.69	5.80	2.26	10.31	5.66	2.45	9.93	5.52	2.66	9.53	5.37	2.88	8.76	5.01	3.12	8.10	4.73	3.44
		30°C	10.70	7.12	2.26	10.32	6.97	2.45	9.94	6.81	2.66	9.54	6.66	2.88	8.77	6.23	3.12	8.11	5.92	3.44
		33°C	10.72	8.34	2.26	10.35	8.18	2.45	9.97	8.01	2.66	9.58	7.84	2.88	8.81	7.36	3.13	8.17	6.99	3.45
		36°C	10.79	9.43	2.27	10.44	9.25	2.46	10.07	9.06	2.66	9.71	8.85	2.89	8.96	8.28	3.14	8.35	7.81	3.46
840	16°C	21°C	9.16	6.53	2.20	8.82	6.37	2.38	8.48	6.20	2.58	8.13	6.03	2.80	7.46	5.61	3.03	6.87	5.28	3.34
		24°C	9.20	7.94	2.21	8.87	7.75	2.39	8.54	7.56	2.58	8.19	7.36	2.80	7.52	6.87	3.04	6.95	6.48	3.35
		27°C	9.35	9.10	2.21	9.05	8.86	2.39	8.74	8.62	2.59	8.43	8.35	2.82	7.79	7.73	3.06	7.26	7.22	3.37
		30°C	9.82	9.82	2.23	9.53	9.53	2.42	9.24	9.24	2.62	8.94	8.94	2.85	8.27	8.27	3.09	7.73	7.73	3.41
	19°C	24°C	10.08	6.27	2.24	9.71	6.11	2.42	9.34	5.96	2.63	8.96	5.79	2.85	8.23	5.40	3.09	7.59	5.09	3.40
		27°C	10.11	7.25	2.24	9.74	7.09	2.43	9.38	6.92	2.63	9.00	6.75	2.85	8.26	6.31	3.09	7.64	5.97	3.41
		30°C	10.19	8.92	2.25	9.83	8.73	2.43	9.48	8.53	2.63	9.12	8.32	2.86	8.39	7.77	3.10	7.79	7.32	3.42
		33°C	10.41	10.41	2.26	10.11	10.11	2.44	9.80	9.80	2.65	9.47	9.47	2.88	8.78	8.78	3.13	8.21	8.21	3.45
	22°C	27°C	11.06	6.13	2.28	10.67	6.00	2.47	10.26	5.85	2.68	9.85	5.69	2.90	9.05	5.31	3.15	8.36	5.02	3.47
		30°C	11.08	7.56	2.28	10.69	7.42	2.47	10.28	7.25	2.68	9.87	7.09	2.91	9.07	6.64	3.15	8.39	6.29	3.47
		33°C	11.12	8.86	2.28	10.74	8.70	2.48	10.34	8.52	2.68	9.93	8.33	2.91	9.14	7.81	3.16	8.47	7.41	3.48
		36°C	11.22	10.00	2.29	10.87	9.82	2.48	10.49	9.60	2.69	10.11	9.37	2.92	9.35	8.74	3.17	8.72	8.22	3.50

Model: FLQN90EXV1 - RQ90DXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	5.670	5.670	6.417	6.417	6.666	6.666	9.407	9.407	10.902	10.902	11.649	11.649	12.396	12.396
17°C	5.521	5.521	6.484	6.484	6.501	6.501	9.396	9.396	10.667	10.667	11.403	11.403	12.138	12.138
19°C	5.372	5.372	6.550	6.550	6.336	6.336	9.384	9.384	10.433	10.433	11.156	11.156	11.879	11.879
21°C	5.224	5.224	6.422	6.422	6.171	6.171	9.203	9.203	10.199	10.199	10.910	10.910	11.621	11.621
23°C	5.075	5.075	6.099	6.099	6.007	6.007	8.852	8.852	9.965	9.965	10.664	10.664	11.362	11.362
25°C	4.926	4.926	5.775	5.775	5.842	5.842	8.500	8.500	9.731	9.731	10.418	10.418	11.104	11.104
27°C	4.778	4.778	5.452	5.452	5.677	5.677	8.149	8.149	9.497	9.497	10.171	10.171	10.846	10.846
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN90EXV1 - RQ90DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.05	8.19	5.85	2.22	7.88	5.69	2.41	7.57	5.53	2.61	6.95	5.14	2.83	6.41	4.84	3.12
		24°C	8.50	7.19	2.05	8.20	7.03	2.22	7.89	6.86	2.41	7.58	6.69	2.61	6.96	6.25	2.83	6.44	5.90	3.12
		27°C	8.57	8.15	2.06	8.28	7.97	2.23	7.99	7.78	2.41	7.69	7.58	2.62	7.09	7.06	2.84	6.60	6.60	3.13
		30°C	8.83	8.83	2.07	8.58	8.58	2.24	8.32	8.32	2.43	8.05	8.05	2.64	7.46	7.46	2.86	6.98	6.98	3.16
	19°C	24°C	9.36	5.61	2.09	9.03	5.46	2.26	8.70	5.32	2.45	8.36	5.17	2.65	7.68	4.81	2.88	7.10	4.53	3.17
		27°C	9.37	6.42	2.09	9.04	6.27	2.26	8.71	6.13	2.45	8.36	5.98	2.65	7.69	5.59	2.88	7.11	5.30	3.17
		30°C	9.38	7.92	2.09	9.06	7.75	2.26	8.74	7.58	2.45	8.41	7.39	2.66	7.74	6.91	2.88	7.18	6.54	3.18
		33°C	9.49	9.49	2.09	9.18	9.18	2.27	8.89	8.89	2.46	8.58	8.58	2.67	7.94	7.94	2.90	7.42	7.42	3.20
	22°C	27°C	10.30	5.49	2.12	9.94	5.36	2.30	9.58	5.22	2.49	9.21	5.08	2.71	8.47	4.73	2.94	7.84	4.46	3.23
		30°C	10.30	6.69	2.12	9.95	6.55	2.30	9.58	6.40	2.49	9.21	6.24	2.71	8.47	5.85	2.94	7.84	5.54	3.23
		33°C	10.31	7.81	2.12	9.95	7.66	2.30	9.59	7.51	2.50	9.21	7.35	2.71	8.48	6.90	2.94	7.86	6.56	3.24
		36°C	10.34	8.86	2.13	10.00	8.68	2.30	9.65	8.50	2.50	9.30	8.31	2.71	8.58	7.79	2.94	7.98	7.39	3.24
753	16°C	21°C	8.83	6.26	2.07	8.51	6.10	2.24	8.19	5.94	2.43	7.85	5.77	2.63	7.21	5.37	2.85	6.65	5.06	3.15
		24°C	8.86	7.60	2.07	8.54	7.42	2.24	8.22	7.25	2.43	7.89	7.06	2.63	7.25	6.59	2.86	6.70	6.22	3.15
		27°C	8.96	8.63	2.08	8.66	8.43	2.25	8.36	8.22	2.44	8.06	7.97	2.64	7.44	7.40	2.87	6.93	6.93	3.17
		30°C	9.34	9.34	2.09	9.07	9.07	2.27	8.79	8.79	2.46	8.50	8.50	2.67	7.88	7.88	2.90	7.37	7.37	3.20
	19°C	24°C	9.73	5.92	2.11	9.38	5.78	2.28	9.03	5.63	2.47	8.67	5.47	2.68	7.96	5.10	2.90	7.35	4.80	3.20
		27°C	9.74	6.82	2.11	9.40	6.67	2.28	9.05	6.52	2.47	8.68	6.37	2.68	7.98	5.95	2.91	7.37	5.64	3.20
		30°C	9.79	8.42	2.11	9.45	8.24	2.28	9.11	8.05	2.47	8.76	7.85	2.68	8.07	7.34	2.91	7.49	6.94	3.21
		33°C	9.95	9.95	2.12	9.65	9.65	2.29	9.34	9.34	2.49	9.03	9.03	2.70	8.37	8.37	2.93	7.82	7.82	3.24
	22°C	27°C	10.69	5.80	2.15	10.31	5.66	2.32	9.93	5.52	2.52	9.53	5.37	2.73	8.76	5.01	2.96	8.10	4.73	3.26
		30°C	10.70	7.12	2.15	10.32	6.97	2.32	9.94	6.81	2.52	9.54	6.66	2.73	8.77	6.23	2.96	8.11	5.92	3.26
		33°C	10.72	8.34	2.15	10.35	8.18	2.33	9.97	8.01	2.52	9.58	7.84	2.73	8.81	7.36	2.97	8.17	6.99	3.27
		36°C	10.79	9.43	2.15	10.44	9.25	2.33	10.07	9.06	2.53	9.71	8.85	2.74	8.96	8.28	2.98	8.35	7.81	3.28
840	16°C	21°C	9.16	6.53	2.09	8.82	6.37	2.26	8.48	6.20	2.45	8.13	6.03	2.65	7.46	5.61	2.88	6.87	5.28	3.17
		24°C	9.20	7.94	2.09	8.87	7.75	2.26	8.54	7.56	2.45	8.19	7.36	2.66	7.52	6.87	2.88	6.95	6.48	3.18
		27°C	9.35	9.10	2.10	9.05	8.86	2.27	8.74	8.62	2.46	8.43	8.35	2.67	7.79	7.73	2.90	7.26	7.22	3.20
		30°C	9.82	9.82	2.12	9.53	9.53	2.29	9.24	9.24	2.49	8.94	8.94	2.70	8.27	8.27	2.93	7.73	7.73	3.24
	19°C	24°C	10.08	6.27	2.12	9.71	6.11	2.30	9.34	5.96	2.49	8.96	5.79	2.70	8.23	5.40	2.93	7.59	5.09	3.23
		27°C	10.11	7.25	2.12	9.74	7.09	2.30	9.38	6.92	2.49	9.00	6.75	2.70	8.26	6.31	2.93	7.64	5.97	3.23
		30°C	10.19	8.92	2.13	9.83	8.73	2.31	9.48	8.53	2.50	9.12	8.32	2.71	8.39	7.77	2.94	7.79	7.32	3.24
		33°C	10.41	10.41	2.14	10.11	10.11	2.32	9.80	9.80	2.52	9.47	9.47	2.73	8.78	8.78	2.97	8.21	8.21	3.28
	22°C	27°C	11.06	6.13	2.16	10.67	6.00	2.34	10.26	5.85	2.54	9.85	5.69	2.75	9.05	5.31	2.99	8.36	5.02	3.29
		30°C	11.08	7.56	2.16	10.69	7.42	2.34	10.28	7.25	2.54	9.87	7.09	2.76	9.07	6.64	2.99	8.39	6.29	3.29
		33°C	11.12	8.86	2.17	10.74	8.70	2.35	10.34	8.52	2.55	9.93	8.33	2.76	9.14	7.81	2.99	8.47	7.41	3.30
		36°C	11.22	10.00	2.17	10.87	9.82	2.35	10.49	9.60	2.55	10.11	9.37	2.77	9.35	8.74	3.01	8.72	8.22	3.32

Model: FLQN90EXV1 - RQ90DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	6.006	6.006	6.798	6.798	7.062	7.062	9.965	9.965	11.549	11.549	12.341	12.341	13.132	13.132
17°C	5.849	5.849	6.817	6.817	6.885	6.885	9.953	9.953	11.289	11.289	12.067	12.067	12.844	12.844
19°C	5.691	5.691	6.836	6.836	6.708	6.708	9.941	9.941	11.030	11.030	11.793	11.793	12.555	12.555
21°C	5.534	5.534	6.692	6.692	6.531	6.531	9.742	9.742	10.771	10.771	11.519	11.519	12.267	12.267
23°C	5.376	5.376	6.383	6.383	6.355	6.355	9.356	9.356	10.511	10.511	11.245	11.245	11.978	11.978
25°C	5.219	5.219	6.074	6.074	6.178	6.178	8.970	8.970	10.252	10.252	10.971	10.971	11.690	11.690
27°C	5.062	5.062	5.766	5.766	6.001	6.001	8.584	8.584	9.992	9.992	10.697	10.697	11.401	11.401
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN100EXV1 - RQ100DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.47	7.21	3.06	10.10	7.02	3.31	9.72	6.83	3.58	9.33	6.63	3.88	8.57	6.17	4.21	7.91	5.81	4.65
		24°C	10.48	8.63	3.06	10.11	8.43	3.31	9.73	8.24	3.58	9.35	8.03	3.89	8.59	7.50	4.22	7.94	7.08	4.65
		27°C	10.56	9.78	3.06	10.21	9.56	3.31	9.85	9.34	3.59	9.48	9.10	3.89	8.75	8.47	4.23	8.14	7.95	4.66
		30°C	10.89	10.89	3.08	10.58	10.58	3.33	10.26	10.26	3.61	9.93	9.93	3.92	9.20	9.20	4.26	8.61	8.61	4.71
	19°C	24°C	11.55	6.73	3.11	11.14	6.56	3.36	10.73	6.38	3.64	10.31	6.20	3.95	9.47	5.78	4.29	8.76	5.44	4.73
		27°C	11.55	7.70	3.11	11.15	7.52	3.36	10.74	7.35	3.64	10.32	7.17	3.95	9.48	6.71	4.29	8.77	6.36	4.73
		30°C	11.57	9.50	3.11	11.17	9.30	3.37	10.78	9.09	3.65	10.37	8.87	3.96	9.55	8.30	4.29	8.86	7.85	4.73
		33°C	11.71	11.71	3.12	11.33	11.33	3.37	10.96	10.96	3.66	10.59	10.59	3.97	9.79	9.79	4.31	9.16	9.16	4.76
	22°C	27°C	12.70	6.59	3.16	12.26	6.43	3.43	11.82	6.27	3.71	11.35	6.09	4.03	10.44	5.68	4.37	9.66	5.35	4.82
		30°C	12.71	8.03	3.16	12.27	7.85	3.43	11.82	7.68	3.72	11.36	7.49	4.03	10.44	7.01	4.37	9.67	6.65	4.82
		33°C	12.71	9.37	3.16	12.27	9.19	3.43	11.83	9.01	3.72	11.36	8.83	4.03	10.46	8.29	4.37	9.69	7.87	4.82
		36°C	12.75	10.63	3.17	12.33	10.42	3.43	11.90	10.20	3.72	11.47	9.97	4.04	10.58	9.35	4.38	9.84	8.87	4.83
983	16°C	21°C	10.89	7.51	3.09	10.50	7.32	3.34	10.10	7.13	3.61	9.69	6.93	3.92	8.89	6.45	4.25	8.20	6.07	4.68
		24°C	10.92	9.12	3.09	10.53	8.91	3.34	10.14	8.69	3.62	9.73	8.48	3.92	8.94	7.91	4.25	8.26	7.46	4.69
		27°C	11.05	10.36	3.09	10.68	10.12	3.35	10.31	9.86	3.63	9.94	9.56	3.94	9.18	8.88	4.27	8.55	8.31	4.72
		30°C	11.52	11.52	3.12	11.18	11.18	3.38	10.84	10.84	3.66	10.49	10.49	3.97	9.72	9.72	4.32	9.08	9.08	4.77
	19°C	24°C	12.00	7.11	3.14	11.57	6.93	3.39	11.14	6.75	3.68	10.69	6.56	3.99	9.82	6.12	4.33	9.07	5.77	4.77
		27°C	12.02	8.19	3.14	11.59	8.01	3.40	11.16	7.83	3.68	10.71	7.64	3.99	9.84	7.14	4.33	9.10	6.76	4.77
		30°C	12.08	10.10	3.14	11.66	9.88	3.40	11.24	9.66	3.69	10.81	9.43	4.00	9.95	8.81	4.34	9.23	8.33	4.78
		33°C	12.28	12.28	3.15	11.90	11.90	3.41	11.52	11.52	3.70	11.14	11.14	4.02	10.32	10.32	4.37	9.65	9.65	4.82
	22°C	27°C	13.18	6.96	3.19	12.72	6.80	3.46	12.25	6.63	3.75	11.76	6.45	4.07	10.81	6.01	4.41	9.99	5.67	4.86
		30°C	13.20	8.54	3.19	12.73	8.36	3.46	12.26	8.18	3.75	11.77	7.99	4.07	10.82	7.48	4.41	10.01	7.10	4.86
		33°C	13.22	10.01	3.20	12.76	9.82	3.46	12.29	9.62	3.75	11.81	9.41	4.07	10.86	8.83	4.42	10.07	8.38	4.87
		36°C	13.30	11.31	3.20	12.87	11.10	3.47	12.42	10.87	3.76	11.97	10.62	4.08	11.05	9.93	4.43	10.30	9.37	4.89
1100	16°C	21°C	11.29	7.84	3.11	10.88	7.64	3.36	10.46	7.44	3.64	10.03	7.23	3.95	9.20	6.74	4.28	8.48	6.34	4.72
		24°C	11.35	9.53	3.11	10.94	9.30	3.37	10.53	9.07	3.65	10.10	8.84	3.96	9.28	8.25	4.29	8.57	7.77	4.73
		27°C	11.53	10.92	3.12	11.16	10.64	3.38	10.78	10.34	3.66	10.39	10.02	3.98	9.60	9.28	4.32	8.95	8.66	4.76
		30°C	12.11	12.11	3.15	11.76	11.76	3.41	11.40	11.40	3.70	11.02	11.02	4.02	10.20	10.20	4.37	9.53	9.53	4.82
	19°C	24°C	12.43	7.52	3.16	11.98	7.34	3.42	11.52	7.15	3.71	11.06	6.95	4.02	10.15	6.48	4.36	9.37	6.11	4.80
		27°C	12.47	8.70	3.16	12.02	8.50	3.43	11.57	8.30	3.71	11.10	8.10	4.03	10.19	7.58	4.37	9.42	7.17	4.81
		30°C	12.57	10.71	3.17	12.12	10.47	3.43	11.69	10.23	3.72	11.24	9.98	4.03	10.35	9.32	4.38	9.61	8.78	4.83
		33°C	12.84	12.84	3.19	12.47	12.47	3.45	12.08	12.08	3.75	11.68	11.68	4.07	10.82	10.82	4.42	10.12	10.12	4.88
	22°C	27°C	13.64	7.36	3.22	13.15	7.20	3.49	12.66	7.02	3.78	12.15	6.83	4.10	11.16	6.37	4.45	10.31	6.02	4.90
		30°C	13.67	9.07	3.22	13.18	8.90	3.49	12.68	8.70	3.78	12.18	8.51	4.10	11.19	7.97	4.45	10.35	7.55	4.90
		33°C	13.71	10.63	3.23	13.24	10.44	3.50	12.75	10.22	3.79	12.25	10.00	4.11	11.27	9.37	4.46	10.44	8.89	4.91
		36°C	13.84	12.00	3.23	13.40	11.78	3.51	12.94	11.53	3.80	12.47	11.24	4.13	11.53	10.48	4.48	10.75	9.87	4.94

Model: FLQN100EXV1 - RQ100DXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.087	7.087	8.021	8.021	8.333	8.333	11.758	11.758	13.627	13.627	14.561	14.561	15.495	15.495
17°C	6.901	6.901	8.365	8.365	8.172	8.172	11.744	11.744	13.572	13.572	14.524	14.524	15.477	15.477
19°C	6.715	6.715	8.709	8.709	8.011	8.011	11.730	11.730	13.516	13.516	14.488	14.488	15.459	15.459
21°C	6.530	6.530	8.614	8.614	7.850	7.850	11.649	11.649	13.461	13.461	14.451	14.451	15.441	15.441
23°C	6.344	6.344	8.082	8.082	7.689	7.689	11.500	11.500	13.405	13.405	14.414	14.414	15.423	15.423
25°C	6.158	6.158	7.550	7.550	7.528	7.528	11.351	11.351	13.350	13.350	14.378	14.378	15.405	15.405
27°C	5.972	5.972	7.018	7.018	7.367	7.367	11.203	11.203	13.295	13.295	14.341	14.341	15.387	15.387
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FLQN100EXV1 - RQ100DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.75	8.02	2.99	10.37	7.81	3.24	9.98	7.60	3.51	9.58	7.38	3.80	8.80	6.87	4.12	8.12	6.46	4.55
		24°C	10.76	9.60	2.99	10.38	9.38	3.24	10.00	9.16	3.51	9.60	8.93	3.80	8.82	8.34	4.13	8.16	7.87	4.55
		27°C	10.85	10.85	3.00	10.49	10.49	3.24	10.12	10.12	3.51	9.74	9.74	3.81	8.99	8.99	4.14	8.36	8.36	4.57
		30°C	11.18	11.18	3.01	10.86	10.86	3.26	10.53	10.53	3.54	10.19	10.19	3.84	9.45	9.45	4.17	8.84	8.84	4.61
	19°C	24°C	11.86	7.48	3.04	11.44	7.29	3.29	11.02	7.10	3.57	10.59	6.90	3.87	9.73	6.43	4.20	8.99	6.05	4.63
		27°C	11.87	8.56	3.04	11.45	8.37	3.29	11.03	8.18	3.57	10.59	7.98	3.87	9.74	7.46	4.20	9.00	7.07	4.63
		30°C	11.88	10.57	3.04	11.47	10.34	3.29	11.07	10.11	3.57	10.65	9.87	3.87	9.80	9.23	4.20	9.10	8.73	4.63
		33°C	12.02	12.02	3.05	11.63	11.63	3.30	11.26	11.26	3.58	10.87	10.87	3.89	10.06	10.06	4.22	9.40	9.40	4.66
	22°C	27°C	13.04	7.32	3.10	12.59	7.15	3.35	12.13	6.97	3.64	11.66	6.78	3.94	10.72	6.32	4.28	9.93	5.95	4.71
		30°C	13.05	8.93	3.10	12.60	8.74	3.35	12.14	8.54	3.64	11.66	8.33	3.94	10.73	7.80	4.28	9.93	7.40	4.71
		33°C	13.06	10.42	3.10	12.60	10.23	3.35	12.15	10.02	3.64	11.67	9.82	3.95	10.74	9.22	4.28	9.95	8.75	4.72
		36°C	13.10	11.82	3.10	12.67	11.58	3.36	12.23	11.34	3.64	11.78	11.09	3.95	10.86	10.40	4.29	10.10	9.87	4.73
983	16°C	21°C	11.18	8.36	3.02	10.78	8.14	3.27	10.37	7.93	3.54	9.95	7.70	3.84	9.13	7.17	4.16	8.42	6.75	4.59
		24°C	11.22	10.15	3.02	10.81	9.91	3.27	10.41	9.67	3.54	9.99	9.43	3.84	9.18	8.80	4.16	8.48	8.30	4.59
		27°C	11.35	11.35	3.03	10.97	10.97	3.28	10.59	10.59	3.55	10.21	10.21	3.85	9.43	9.43	4.18	8.78	8.78	4.62
		30°C	11.83	11.83	3.05	11.48	11.48	3.30	11.13	11.13	3.58	10.77	10.77	3.89	9.98	9.98	4.23	9.33	9.33	4.67
	19°C	24°C	12.32	7.91	3.07	11.88	7.71	3.32	11.44	7.51	3.60	10.98	7.30	3.90	10.08	6.80	4.23	9.31	6.41	4.67
		27°C	12.34	9.11	3.07	11.90	8.91	3.32	11.46	8.71	3.60	11.00	8.50	3.91	10.10	7.95	4.24	9.34	7.52	4.67
		30°C	12.40	11.24	3.07	11.97	10.99	3.33	11.54	10.75	3.61	11.10	10.48	3.91	10.22	9.80	4.25	9.48	9.26	4.68
		33°C	12.61	12.61	3.08	12.22	12.22	3.34	11.83	11.83	3.63	11.44	11.44	3.94	10.60	10.60	4.28	9.91	9.91	4.72
	22°C	27°C	13.54	7.74	3.13	13.06	7.56	3.39	12.58	7.37	3.67	12.08	7.17	3.98	11.10	6.69	4.32	10.26	6.31	4.76
		30°C	13.55	9.50	3.13	13.08	9.30	3.39	12.59	9.10	3.67	12.09	8.88	3.98	11.11	8.32	4.32	10.28	7.90	4.76
		33°C	13.58	11.13	3.13	13.11	10.92	3.39	12.63	10.70	3.68	12.13	10.47	3.99	11.16	9.82	4.32	10.34	9.32	4.76
		36°C	13.66	12.58	3.13	13.22	12.35	3.40	12.76	12.09	3.68	12.30	11.81	4.00	11.34	11.05	4.34	10.58	10.42	4.79
1100	16°C	21°C	11.60	8.72	3.04	11.17	8.50	3.29	10.74	8.28	3.57	10.30	8.04	3.87	9.45	7.49	4.19	8.71	7.05	4.62
		24°C	11.66	10.60	3.05	11.23	10.35	3.30	10.81	10.09	3.57	10.38	9.83	3.87	9.53	9.17	4.20	8.80	8.65	4.63
		27°C	11.85	11.85	3.06	11.46	11.46	3.31	11.07	11.07	3.59	10.67	10.67	3.89	9.86	9.86	4.23	9.19	9.19	4.66
		30°C	12.44	12.44	3.08	12.08	12.08	3.34	11.70	11.70	3.62	11.32	11.32	3.93	10.48	10.48	4.27	9.79	9.79	4.72
	19°C	24°C	12.77	8.37	3.10	12.30	8.16	3.35	11.84	7.95	3.63	11.35	7.73	3.94	10.42	7.21	4.27	9.62	6.80	4.70
		27°C	12.80	9.68	3.10	12.34	9.46	3.35	11.88	9.24	3.63	11.40	9.01	3.94	10.47	8.43	4.27	9.67	7.97	4.71
		30°C	12.91	11.91	3.10	12.45	11.65	3.36	12.01	11.38	3.64	11.55	11.10	3.95	10.63	10.37	4.29	9.87	9.77	4.73
		33°C	13.19	13.19	3.12	12.80	12.80	3.38	12.41	12.41	3.67	12.00	12.00	3.98	11.12	11.12	4.33	10.40	10.40	4.78
	22°C	27°C	14.01	8.18	3.15	13.51	8.00	3.42	13.00	7.80	3.70	12.48	7.60	4.01	11.46	7.09	4.35	10.59	6.70	4.79
		30°C	14.04	10.09	3.16	13.54	9.90	3.42	13.03	9.68	3.70	12.50	9.46	4.02	11.49	8.86	4.36	10.63	8.40	4.80
		33°C	14.09	11.82	3.16	13.60	11.62	3.42	13.10	11.37	3.71	12.58	11.12	4.02	11.58	10.42	4.36	10.72	9.89	4.81
		36°C	14.21	13.35	3.17	13.77	13.11	3.43	13.29	12.82	3.72	12.81	12.50	4.04	11.84	11.66	4.39	11.04	10.98	4.84

Model: FLQN100EXV1 - RQ100DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.441	7.441	8.422	8.422	8.749	8.749	12.346	12.346	14.308	14.308	15.289	15.289	16.270	16.270
17°C	7.246	7.246	8.609	8.609	8.565	8.565	12.332	12.332	14.169	14.169	15.158	15.158	16.147	16.147
19°C	7.051	7.051	8.797	8.797	8.381	8.381	12.317	12.317	14.031	14.031	15.028	15.028	16.025	16.025
21°C	6.856	6.856	8.663	8.663	8.196	8.196	12.182	12.182	13.892	13.892	14.897	14.897	15.902	15.902
23°C	6.661	6.661	8.209	8.209	8.012	8.012	11.927	11.927	13.753	13.753	14.766	14.766	15.779	15.779
25°C	6.466	6.466	7.754	7.754	7.828	7.828	11.672	11.672	13.614	13.614	14.635	14.635	15.656	15.656
27°C	6.271	6.271	7.300	7.300	7.643	7.643	11.417	11.417	13.475	13.475	14.504	14.504	15.533	15.533
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FHQN125CXV1 - RQ125DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
959	16°C	21°C	12.44	9.39	3.43	12.00	9.14	3.71	11.55	8.90	4.02	11.09	8.64	4.36	10.18	8.04	4.73	9.40	7.56	5.21
		24°C	12.45	11.24	3.43	12.01	10.98	3.71	11.57	10.73	4.02	11.11	10.46	4.36	10.20	9.77	4.73	9.44	9.22	5.22
		27°C	12.55	12.55	3.44	12.14	12.14	3.72	11.71	11.71	4.03	11.27	11.27	4.37	10.40	10.40	4.74	9.67	9.67	5.24
		30°C	12.94	12.94	3.45	12.57	12.57	3.74	12.19	12.19	4.06	11.79	11.79	4.40	10.93	10.93	4.79	10.23	10.23	5.28
	19°C	24°C	13.72	8.76	3.49	13.24	8.54	3.77	12.75	8.32	4.09	12.25	8.08	4.44	11.26	7.53	4.81	10.41	7.09	5.30
		27°C	13.73	10.03	3.49	13.24	9.80	3.77	12.76	9.58	4.09	12.26	9.35	4.44	11.27	8.74	4.81	10.42	8.28	5.30
		30°C	13.75	12.37	3.49	13.27	12.11	3.78	12.81	11.84	4.09	12.32	11.56	4.44	11.34	10.81	4.82	10.52	10.23	5.31
		33°C	13.91	13.91	3.50	13.46	13.46	3.79	13.02	13.02	4.11	12.58	12.58	4.46	11.64	11.64	4.84	10.88	10.88	5.35
	22°C	27°C	15.09	8.58	3.55	14.57	8.37	3.85	14.04	8.16	4.17	13.49	7.94	4.52	12.41	7.40	4.91	11.48	6.97	5.40
		30°C	15.10	10.45	3.55	14.58	10.23	3.85	14.04	10.00	4.17	13.49	9.76	4.52	12.41	9.14	4.91	11.49	8.67	5.41
		33°C	15.11	12.21	3.55	14.58	11.98	3.85	14.05	11.74	4.17	13.50	11.50	4.52	12.43	10.79	4.91	11.52	10.25	5.41
		36°C	15.16	13.85	3.55	14.65	13.57	3.85	14.15	13.29	4.18	13.63	12.99	4.53	12.57	12.18	4.92	11.69	11.56	5.42
1082	16°C	21°C	12.94	9.79	3.46	12.47	9.54	3.75	12.00	9.28	4.06	11.51	9.02	4.40	10.56	8.40	4.77	9.74	7.91	5.26
		24°C	12.98	11.88	3.46	12.51	11.60	3.75	12.04	11.33	4.06	11.56	11.04	4.40	10.62	10.30	4.77	9.82	9.72	5.26
		27°C	13.14	13.14	3.47	12.69	12.69	3.76	12.26	12.26	4.07	11.82	11.82	4.42	10.91	10.91	4.80	10.16	10.16	5.29
		30°C	13.68	13.68	3.50	13.29	13.29	3.79	12.88	12.88	4.11	12.46	12.46	4.46	11.55	11.55	4.85	10.79	10.79	5.35
	19°C	24°C	14.26	9.26	3.52	13.75	9.03	3.81	13.23	8.79	4.13	12.70	8.55	4.48	11.66	7.97	4.85	10.77	7.51	5.35
		27°C	14.28	10.67	3.52	13.77	10.43	3.81	13.26	10.19	4.13	12.72	9.95	4.48	11.69	9.30	4.86	10.81	8.81	5.35
		30°C	14.35	13.16	3.52	13.85	12.87	3.82	13.35	12.59	4.14	12.84	12.28	4.49	11.83	11.48	4.87	10.97	10.85	5.37
		33°C	14.59	14.59	3.54	14.14	14.14	3.83	13.69	13.69	4.16	13.24	13.24	4.51	12.26	12.26	4.90	11.46	11.46	5.41
	22°C	27°C	15.66	9.07	3.58	15.11	8.85	3.88	14.55	8.63	4.21	13.97	8.40	4.56	12.84	7.83	4.95	11.88	7.39	5.45
		30°C	15.68	11.13	3.59	15.13	10.90	3.88	14.57	10.65	4.21	13.99	10.40	4.57	12.86	9.74	4.95	11.89	9.25	5.45
		33°C	15.71	13.04	3.59	15.17	12.79	3.89	14.61	12.53	4.21	14.03	12.26	4.57	12.91	11.50	4.96	11.97	10.92	5.46
		36°C	15.81	14.74	3.59	15.30	14.46	3.90	14.76	14.16	4.22	14.23	13.83	4.58	13.13	12.94	4.97	12.24	12.21	5.49
1215	16°C	21°C	13.42	10.21	3.49	12.93	9.95	3.78	12.43	9.69	4.09	11.92	9.42	4.43	10.93	8.77	4.81	10.07	8.26	5.30
		24°C	13.49	12.41	3.49	13.00	12.12	3.78	12.51	11.82	4.09	12.00	11.51	4.44	11.03	10.74	4.81	10.19	10.13	5.31
		27°C	13.71	13.71	3.51	13.26	13.26	3.79	12.81	12.81	4.11	12.35	12.35	4.46	11.41	11.41	4.84	10.64	10.64	5.35
		30°C	14.39	14.39	3.54	13.97	13.97	3.83	13.54	13.54	4.15	13.10	13.10	4.51	12.13	12.13	4.90	11.32	11.32	5.41
	19°C	24°C	14.77	9.80	3.55	14.24	9.56	3.84	13.69	9.31	4.16	13.14	9.06	4.51	12.06	8.44	4.89	11.13	7.96	5.39
		27°C	14.81	11.34	3.55	14.28	11.08	3.84	13.74	10.82	4.17	13.19	10.55	4.52	12.11	9.87	4.90	11.19	9.34	5.40
		30°C	14.94	13.95	3.56	14.41	13.65	3.85	13.89	13.33	4.17	13.36	13.00	4.53	12.30	12.14	4.91	11.42	11.42	5.42
		33°C	15.26	15.26	3.57	14.81	14.81	3.87	14.36	14.36	4.20	13.88	13.88	4.57	12.86	12.86	4.96	12.03	12.03	5.48
	22°C	27°C	16.21	9.58	3.62	15.63	9.37	3.92	15.04	9.14	4.24	14.44	8.90	4.60	13.26	8.30	4.99	12.26	7.84	5.50
		30°C	16.24	11.82	3.62	15.66	11.59	3.92	15.07	11.34	4.25	14.47	11.08	4.61	13.29	10.38	4.99	12.29	9.84	5.50
		33°C	16.30	13.85	3.62	15.73	13.61	3.92	15.15	13.32	4.25	14.56	13.03	4.61	13.39	12.21	5.00	12.41	11.59	5.51
		36°C	16.44	15.64	3.63	15.93	15.35	3.94	15.38	15.01	4.27	14.82	14.64	4.63	13.70	13.66	5.03	12.78	12.78	5.55

Model: FHQN125CXV1 - RQ125DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.973	7.937	9.024	9.024	9.374	9.374	13.228	13.228	15.330	15.330	16.381	16.381	17.432	17.432
17°C	7.764	7.764	9.283	9.283	9.176	9.176	13.212	13.212	15.178	15.178	16.237	16.237	17.297	17.297
19°C	7.555	7.555	9.542	9.542	8.978	8.978	13.197	13.197	15.026	15.026	16.094	16.094	17.161	17.161
21°C	7.346	7.346	9.407	9.407	8.780	8.780	13.050	13.050	14.874	14.874	15.950	15.950	17.025	17.025
23°C	7.137	7.137	8.878	8.878	8.582	8.582	12.773	12.773	14.722	14.722	15.806	15.806	16.889	16.889
25°C	6.928	6.928	8.348	8.348	8.384	8.384	12.496	12.496	14.570	14.570	15.662	15.662	16.754	16.754
27°C	6.719	6.719	7.819	7.819	8.185	8.185	12.218	12.218	14.418	14.418	15.518	15.518	16.618	16.618
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Model: FHQN140CXV1 - RQ140DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1000	16°C	21°C	15.19	10.03	4.87	14.66	9.77	5.27	14.11	9.50	5.71	13.54	9.23	6.19	12.44	8.59	6.71	11.48	8.08	7.40
		24°C	15.21	12.01	4.87	14.67	11.73	5.27	14.13	11.46	5.71	13.57	11.18	6.19	12.46	10.44	6.72	11.53	9.85	7.41
		27°C	15.33	13.62	4.88	14.82	13.31	5.28	14.30	12.99	5.72	13.76	12.66	6.20	12.70	11.78	6.74	11.82	11.07	7.43
		30°C	15.81	15.81	4.90	15.35	15.35	5.31	14.89	14.89	5.76	14.41	14.41	6.25	13.35	13.35	6.79	12.49	12.49	7.50
	19°C	24°C	16.76	9.36	4.95	16.17	9.13	5.36	15.58	8.88	5.81	14.96	8.63	6.30	13.75	8.04	6.83	12.71	7.57	7.53
		27°C	16.77	10.71	4.95	16.18	10.47	5.36	15.59	10.23	5.81	14.97	9.98	6.30	13.76	9.34	6.83	12.73	8.85	7.53
		30°C	16.80	13.22	4.95	16.22	12.94	5.36	15.64	12.65	5.81	15.05	12.35	6.30	13.86	11.55	6.84	12.85	10.93	7.54
		33°C	16.99	16.99	4.96	16.44	16.44	5.38	15.91	15.91	5.83	15.37	15.37	6.33	14.22	14.22	6.87	13.29	13.29	7.59
	22°C	27°C	18.44	9.17	5.04	17.80	8.94	5.46	17.15	8.72	5.92	16.48	8.48	6.42	15.15	7.90	6.96	14.03	7.45	7.67
		30°C	18.44	11.17	5.04	17.81	10.93	5.46	17.15	10.68	5.92	16.48	10.43	6.42	15.16	9.76	6.97	14.03	9.26	7.67
		33°C	18.45	13.04	5.04	17.81	12.80	5.46	17.17	12.54	5.92	16.49	12.28	6.42	15.18	11.53	6.97	14.07	10.95	7.68
		36°C	18.51	14.79	5.04	17.90	14.50	5.47	17.28	14.19	5.93	16.65	13.88	6.43	15.36	13.01	6.98	14.28	12.35	7.70
1320	16°C	21°C	15.81	10.47	4.92	15.24	10.20	5.32	14.66	9.93	5.76	14.07	9.65	6.24	12.91	8.98	6.77	11.91	8.45	7.46
		24°C	15.86	12.70	4.92	15.29	12.41	5.32	14.72	12.11	5.76	14.12	11.81	6.25	12.98	11.01	6.78	11.99	10.39	7.47
		27°C	16.05	14.43	4.93	15.51	14.09	5.33	14.98	13.73	5.78	14.44	13.32	6.27	13.33	12.37	6.81	12.42	11.57	7.52
		30°C	16.72	16.72	4.97	16.24	16.24	5.38	15.74	15.74	5.83	15.23	15.23	6.33	14.11	14.11	6.88	13.19	13.19	7.60
	19°C	24°C	17.42	9.90	5.00	16.80	9.65	5.41	16.17	9.40	5.86	15.52	9.14	6.35	14.25	8.52	6.89	13.17	8.03	7.59
		27°C	17.45	11.40	5.00	16.83	11.15	5.41	16.20	10.90	5.86	15.55	10.64	6.36	14.29	9.95	6.90	13.21	9.42	7.60
		30°C	17.53	14.07	5.00	16.92	13.76	5.42	16.32	13.46	5.87	15.69	13.13	6.37	14.45	12.27	6.91	13.41	11.60	7.62
		33°C	17.83	17.83	5.02	17.28	17.28	5.44	16.73	16.73	5.90	16.18	16.18	6.41	14.98	14.98	6.96	14.01	14.01	7.69
	22°C	27°C	19.14	9.69	5.09	18.47	9.47	5.51	17.78	9.23	5.98	17.07	8.98	6.48	15.69	8.37	7.03	14.51	7.90	7.74
		30°C	19.16	11.90	5.09	18.49	11.65	5.52	17.80	11.39	5.98	17.09	11.12	6.48	15.71	10.42	7.03	14.53	9.89	7.74
		33°C	19.20	13.94	5.09	18.53	13.67	5.52	17.85	13.39	5.98	17.15	13.11	6.49	15.78	12.30	7.04	14.62	11.68	7.76
		36°C	19.32	15.76	5.10	18.69	15.46	5.53	18.04	15.14	6.00	17.38	14.79	6.51	16.04	13.84	7.06	14.95	13.05	7.79
1550	16°C	21°C	16.40	10.92	4.96	15.80	10.64	5.36	15.19	10.36	5.81	14.56	10.07	6.29	13.36	9.38	6.83	12.31	8.83	7.52
		24°C	16.49	13.27	4.96	15.89	12.96	5.37	15.29	12.64	5.81	14.67	12.31	6.30	13.47	11.49	6.84	12.45	10.83	7.53
		27°C	16.75	15.21	4.98	16.20	14.82	5.39	15.66	14.40	5.84	15.09	13.96	6.34	13.95	12.93	6.88	13.00	12.07	7.59
		30°C	17.59	17.59	5.02	17.07	17.07	5.44	16.55	16.55	5.90	16.00	16.00	6.41	14.82	14.82	6.96	13.84	13.84	7.68
	19°C	24°C	18.05	10.48	5.04	17.40	10.22	5.45	16.74	9.96	5.91	16.05	9.69	6.41	14.73	9.03	6.95	13.60	8.52	7.65
		27°C	18.10	12.12	5.04	17.45	11.84	5.46	16.80	11.57	5.91	16.12	11.28	6.41	14.80	10.55	6.96	13.68	9.98	7.66
		30°C	18.25	14.92	5.05	17.61	14.59	5.47	16.98	14.26	5.93	16.33	13.90	6.43	15.03	12.98	6.98	13.95	12.24	7.69
		33°C	18.65	18.65	5.08	18.10	18.10	5.50	17.54	17.54	5.97	16.97	16.97	6.48	15.72	15.72	7.04	14.70	14.70	7.78
	22°C	27°C	19.81	10.25	5.13	19.10	10.02	5.56	18.38	9.77	6.03	17.64	9.52	6.54	16.21	8.88	7.09	14.98	8.38	7.80
		30°C	19.85	12.63	5.14	19.14	12.40	5.56	18.42	12.13	6.03	17.68	11.85	6.54	16.24	11.10	7.09	15.02	10.52	7.81
		33°C	19.92	14.81	5.14	19.23	14.55	5.57	18.52	14.24	6.04	17.79	13.93	6.55	16.37	13.05	7.11	15.16	12.39	7.83
		36°C	20.09	16.72	5.15	19.46	16.41	5.59	18.79	16.05	6.06	18.11	15.66	6.58	16.74	14.60	7.14	15.61	13.75	7.88

Model: FHQN140CXV1 - RQ140DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
15°C	9.745	9.745	11.029	11.029	11.458	11.458	16.168	16.168	18.737	18.737	20.022	20.022	21.306	21.306
17°C	9.489	9.489	10.803	10.803	11.168	11.168	16.149	16.149	18.304	18.304	19.564	19.564	20.823	20.823
19°C	9.234	9.234	10.576	10.576	10.879	10.879	16.129	16.129	17.871	17.871	19.105	19.105	20.339	20.339
21°C	8.978	8.978	10.303	10.303	10.590	10.590	15.799	15.799	17.439	17.439	18.647	18.647	19.856	19.856
23°C	8.723	8.723	9.984	9.984	10.301	10.301	15.158	15.158	17.006	17.006	18.189	18.189	19.373	19.373
25°C	8.467	8.467	9.664	9.664	10.011	10.011	14.516	14.516	16.573	16.573	17.731	17.731	18.889	18.889
27°C	8.212	8.212	9.345	9.345	9.722	9.722	13.875	13.875	16.140	16.140	17.273	17.273	18.406	18.406
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

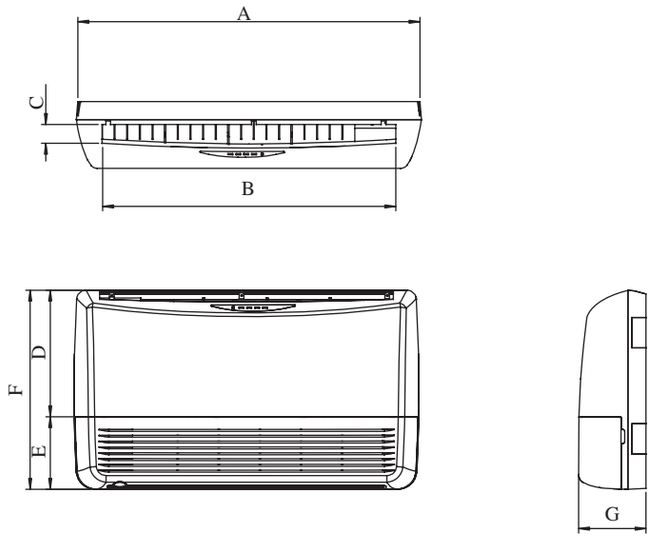
Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

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Outlines & Dimensions

Indoor Unit

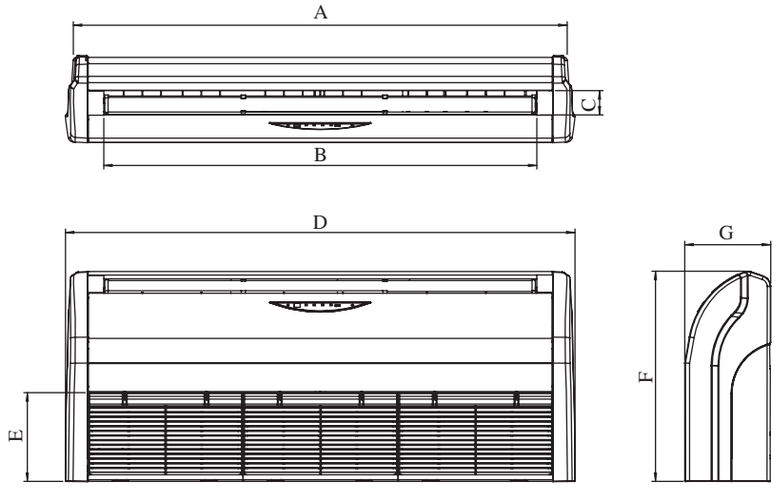
Model: FLRN / FLQN 35/50/60/71 EXV1



Model \ Dimension	A	B	C	D	E	F	G
FLRN / FLQN 35/50/60/71 EXV1	1080	928	65	400	230	630	218

Note: Dimension in mm

Model: FLRN / FLQN 90/100/125 EXV1

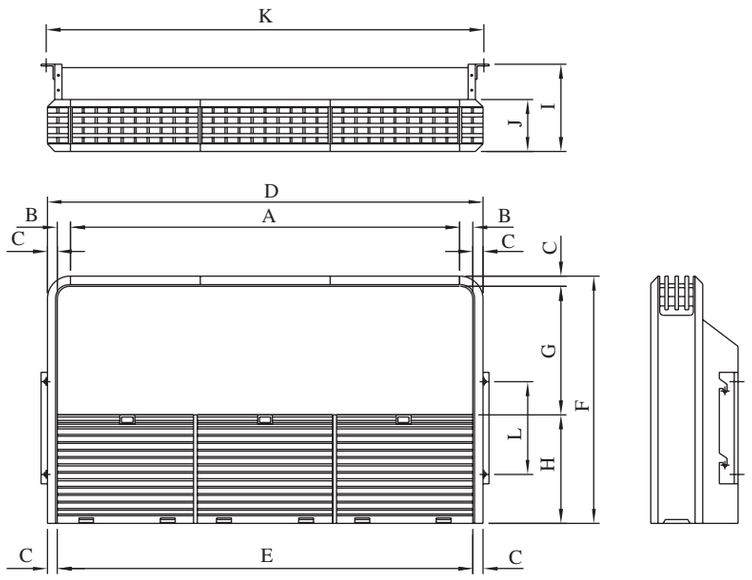


Model \ Dimension	A	B	C	D	E	F	G
FLRN / FLQN 90EXV1	1272	1088	74	1320	268	635	259
FLRN / FLQN 100EXV1	1490	1308	74	1538	268	635	259
FLRN / FLQN 125EXV1	1738	1556	74	1786	268	365	259

Note: Dimension in mm

DAIKIN_FLRN_FLQN.indb 52 1/8/2013 9:59:13 AM

Model: FHRN / FHQN 140CXV1



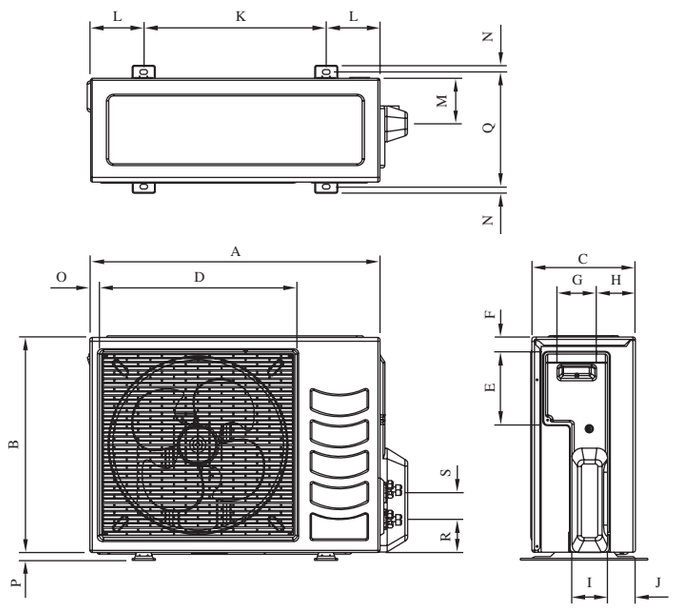
Dimension / Model	A	B	C	D	E	F	G	H	I	J	K	L
FHRN / FHQN 140CXV1	1750	40	36	1903	1830	680	352	292	285	140	1880	250

Note: Dimension in mm

DAIKIN_FLRN_FLQN.indb 53 1/8/2013 9:59:13 AM

Outdoor Unit

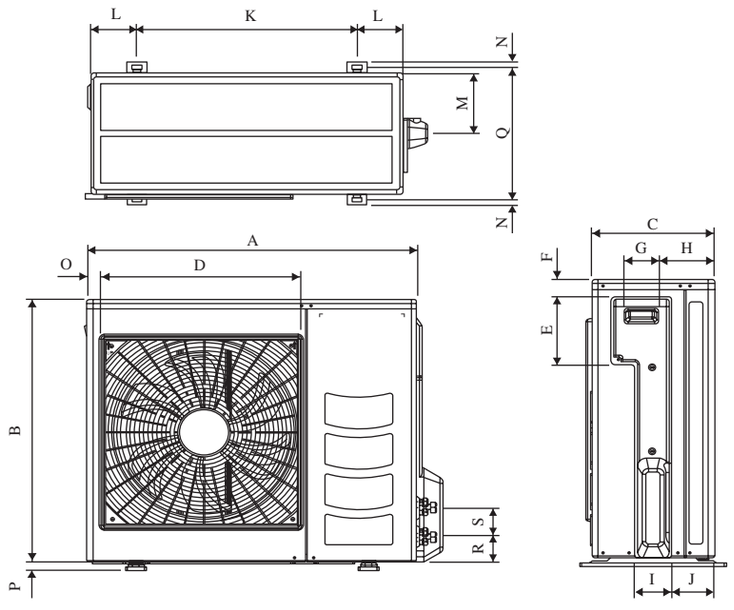
Model: R(Y)N35CXV1



Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
R(Y)N35CXV1	700	521	250	478	175	36	95	94	86	68	440	130	110	15	21	19	278	80	65

Note: Dimension in mm

Model: R(Y)N50CXV1 / CXY1, R(Y)N60CXV1 / CXY1, RR71CXV1 / CXY1, RQ71CXV1 / CXY1

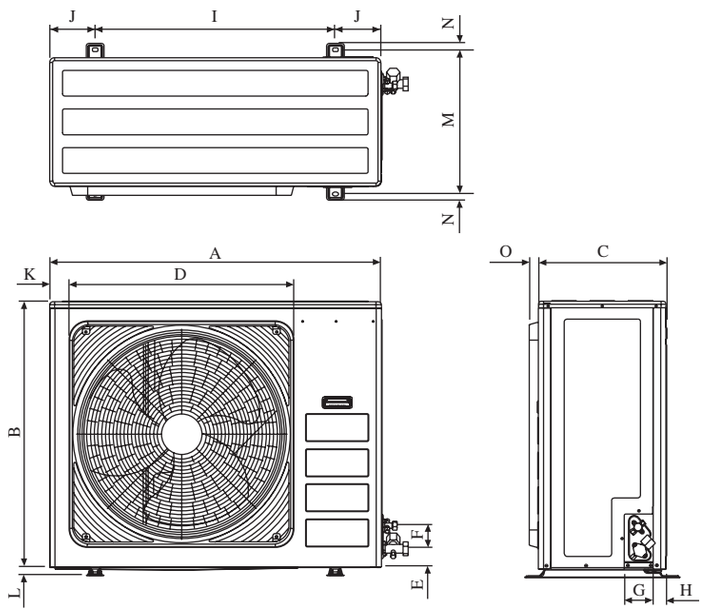


Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
R(Y)N50CXV1 / CXY1	855	628	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75
R(Y)N 60CXV1 / CXY1 RR71CXV1 / CXY1 RQ71CXV1 / CXY1	855	730	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75

Note: Dimension in mm

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Model: RR90DXV1 / DXY1, RQ90DXV1 / DXY1, RR100DXV1 / DXY1, RQ100DXV1 / DXY1, RR125DXY1, RQ125DXY1, RR140DXY1 , RQ140DXY1



Dimension / Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
RR90DXV1 / DXY1, RQ90DXV1 / DXY1, RR100DXV1 / DXY1, RQ100DXV1 / DXY1, RR125DXY1, RQ125DXY1, RR140DXY1 , RQ140DXY1	1030	826	400	410	57	72	90	40	746	142	60	26	448	22	28

Note: Dimension in mm

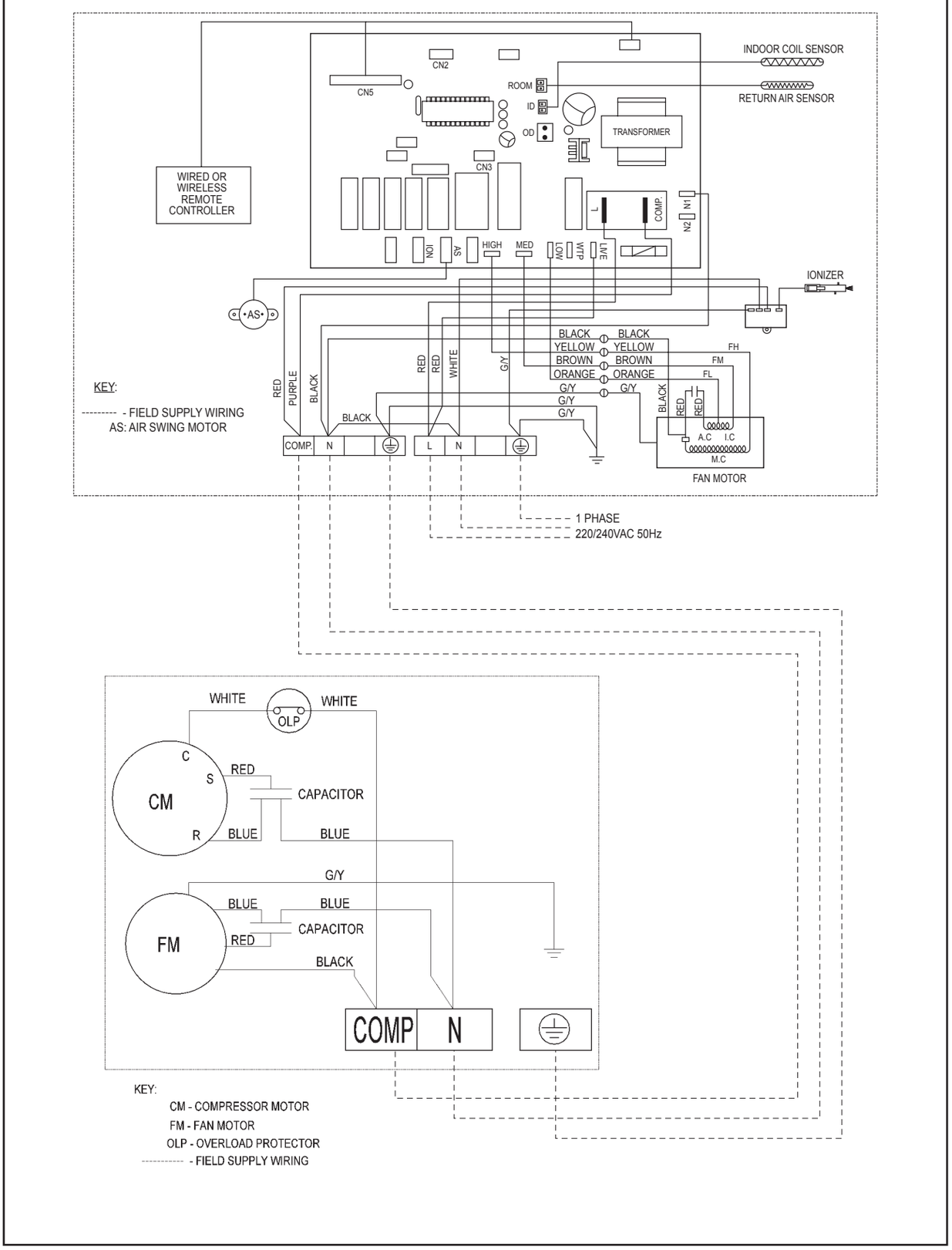
DAIKIN_FLRN_FLQN.indb 55 1/8/2013 9:59:13 AM

Wiring Diagrams

Cooling Only

Indoor Unit
Model: FLRN35EXV1

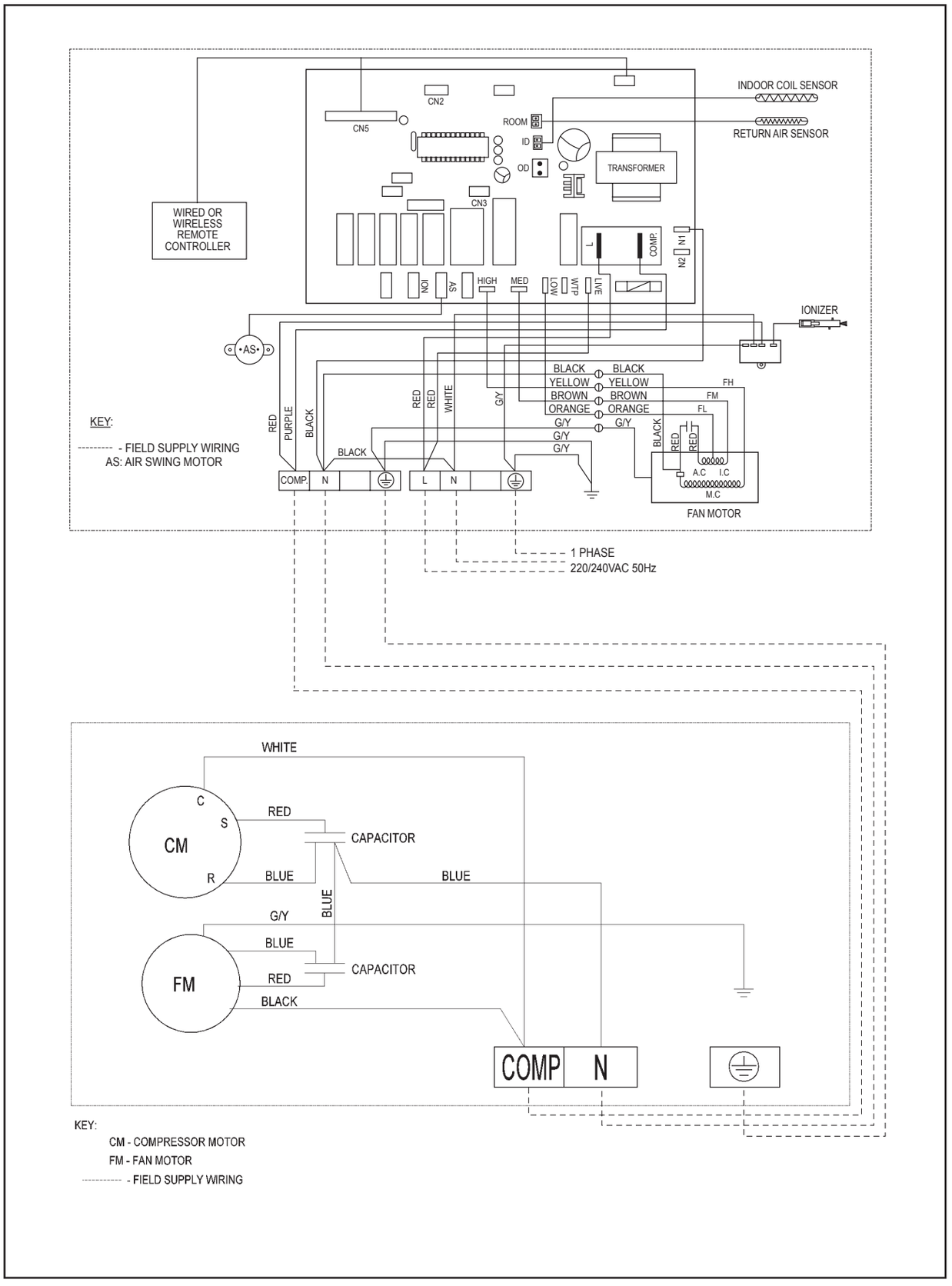
Outdoor Unit
Model: RN35CXV1



DAIKIN_FLRN_FLQN.indb 56 1/8/2013 9:59:14 AM

Indoor Unit
Model: FLRN50/60EXV1

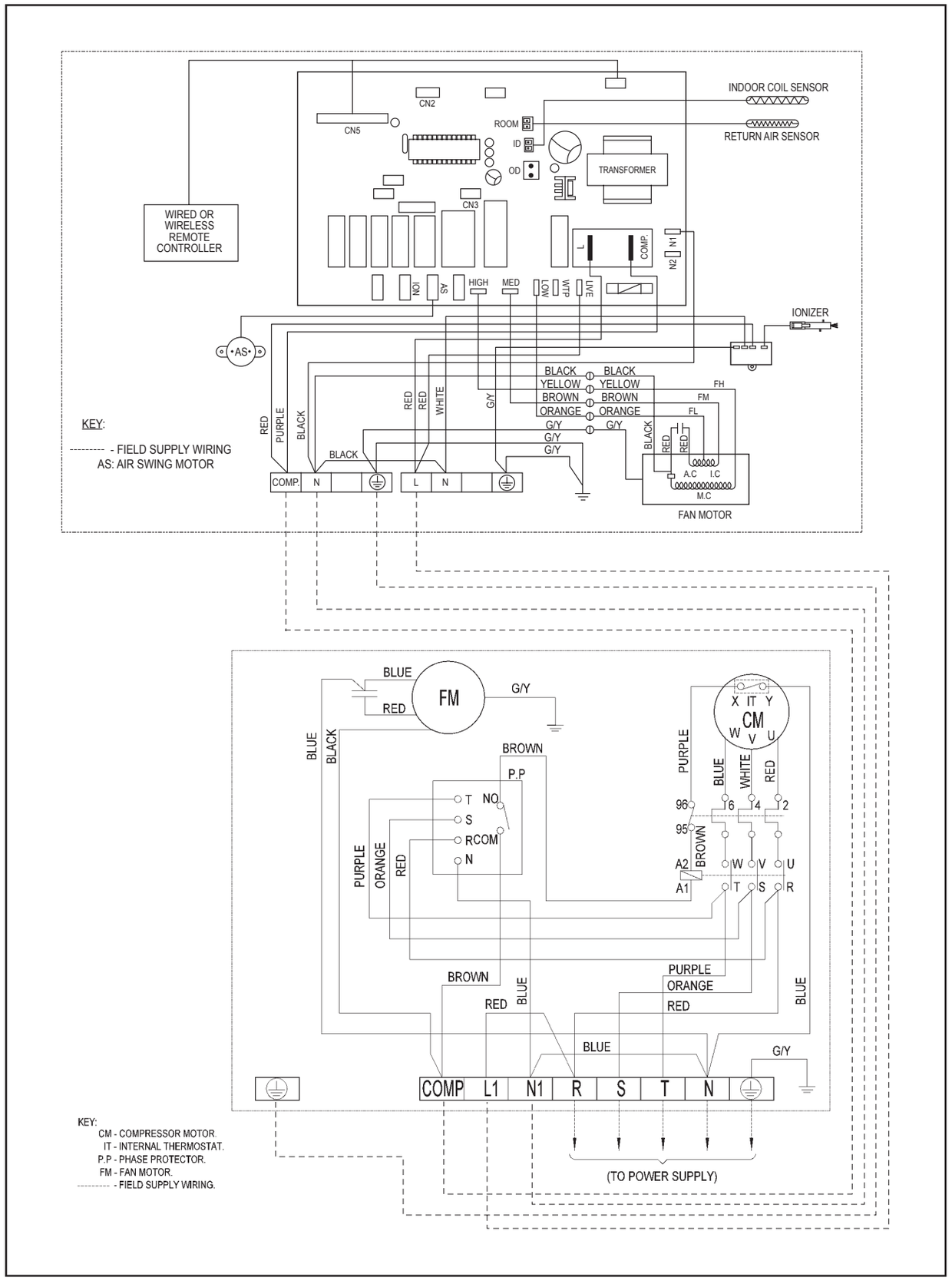
Outdoor Unit
Model: RN50/60CXV1



DAIKIN_FLRN_FLQN.indb 57 1/8/2013 9:59:14 AM

Indoor Unit
Model: FLRN50/60EXV1

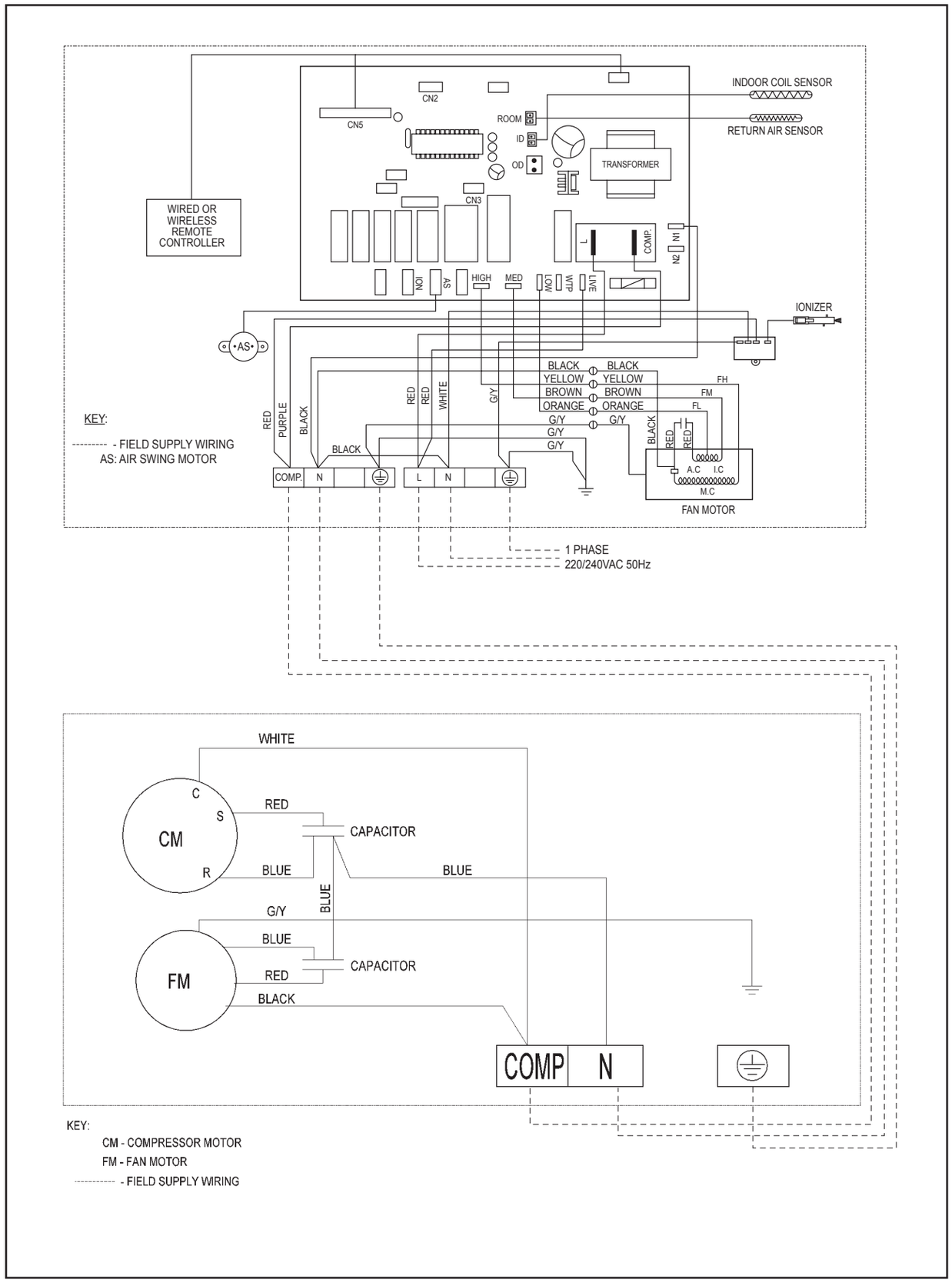
Outdoor Unit
Model: RN50/60CXY1



DAIKIN_FLRN_FLQN.indb 58 1/8/2013 9:59:14 AM

Indoor Unit
Model: FLRN71EXV1

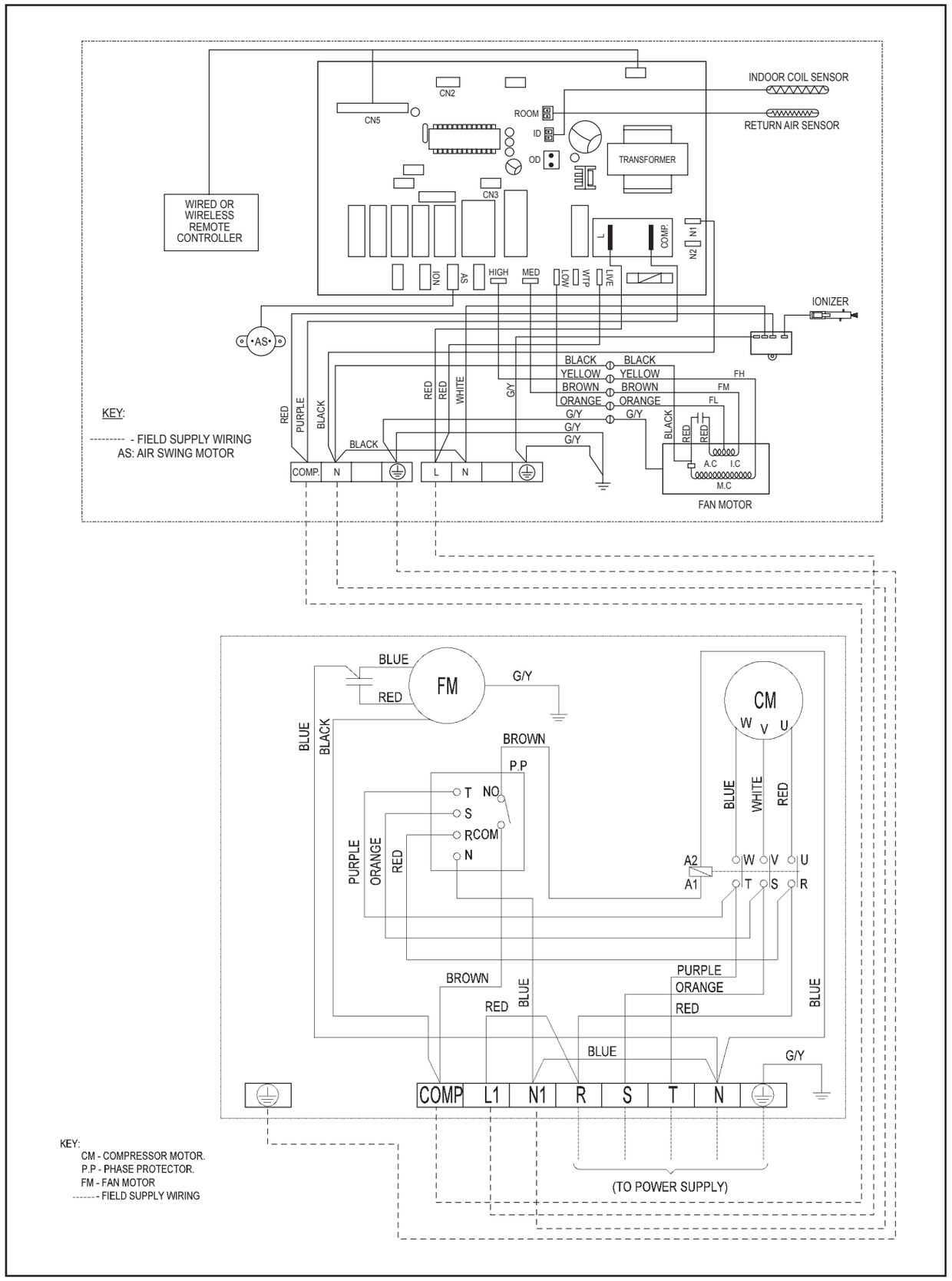
Outdoor Unit
Model: RR71CXV1



DAIKIN_FLRN_FLQN.indb 59 1/8/2013 9:59:14 AM

Indoor Unit
Model: FLRN71EXV1

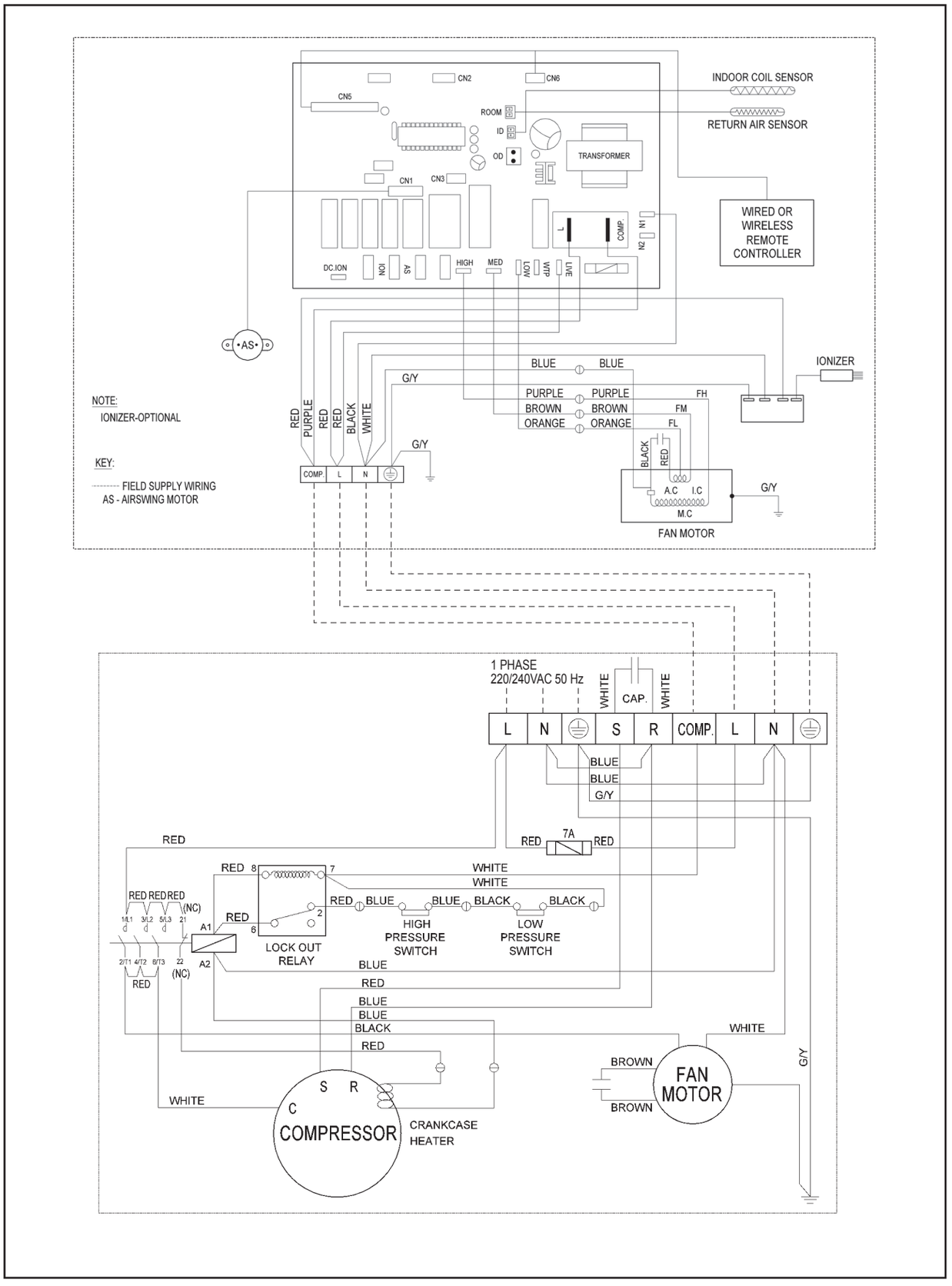
Outdoor Unit
Model: RR71CXY1



DAIKIN_FLRN_FLQN.indb 60 1/8/2013 9:59:14 AM

Indoor Unit
Model: FLRN90/100EXV1

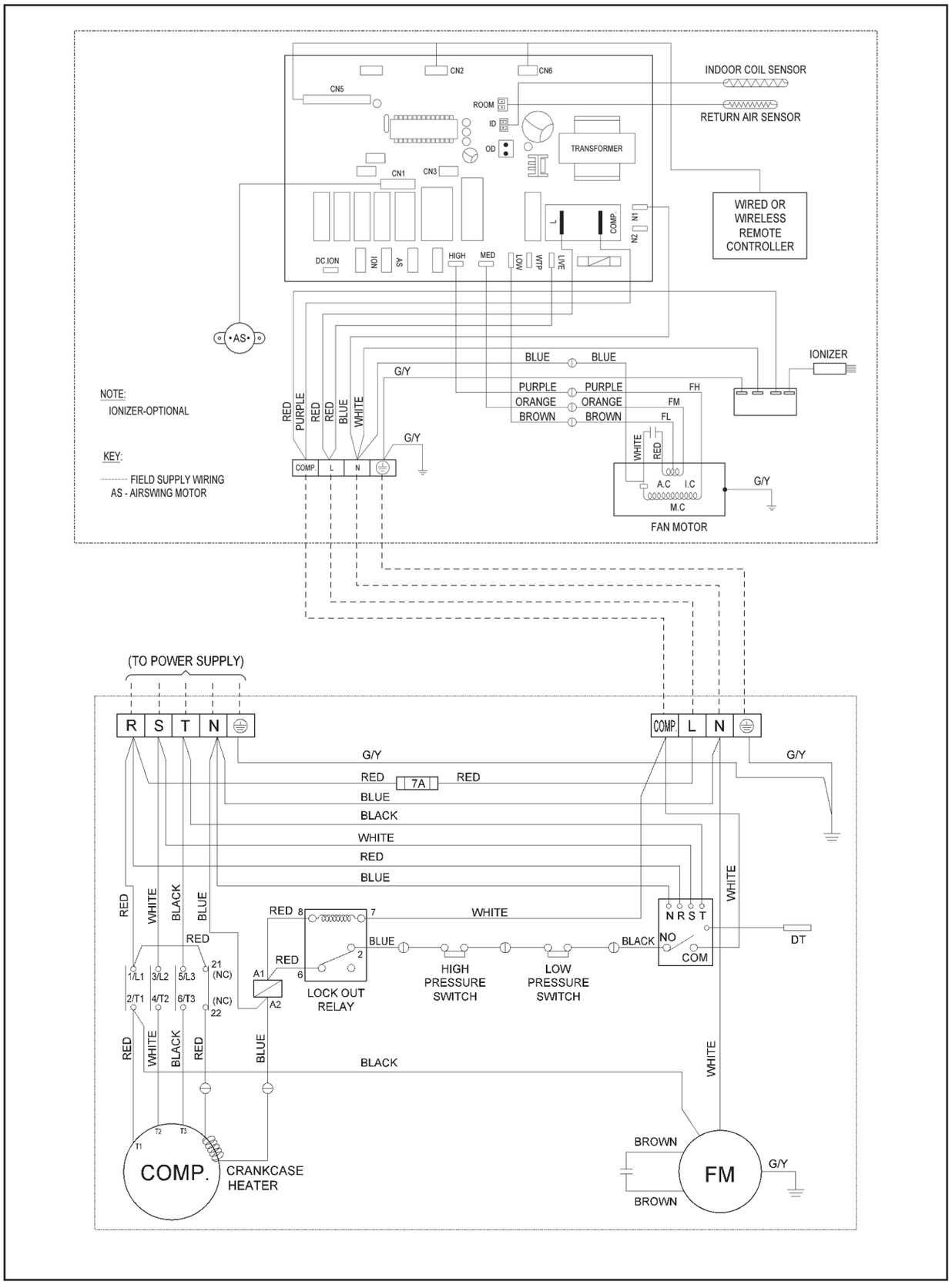
Outdoor Unit
Model: RR90/100DXV1



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Indoor Unit
Model: FLRN90/100/125EXV1

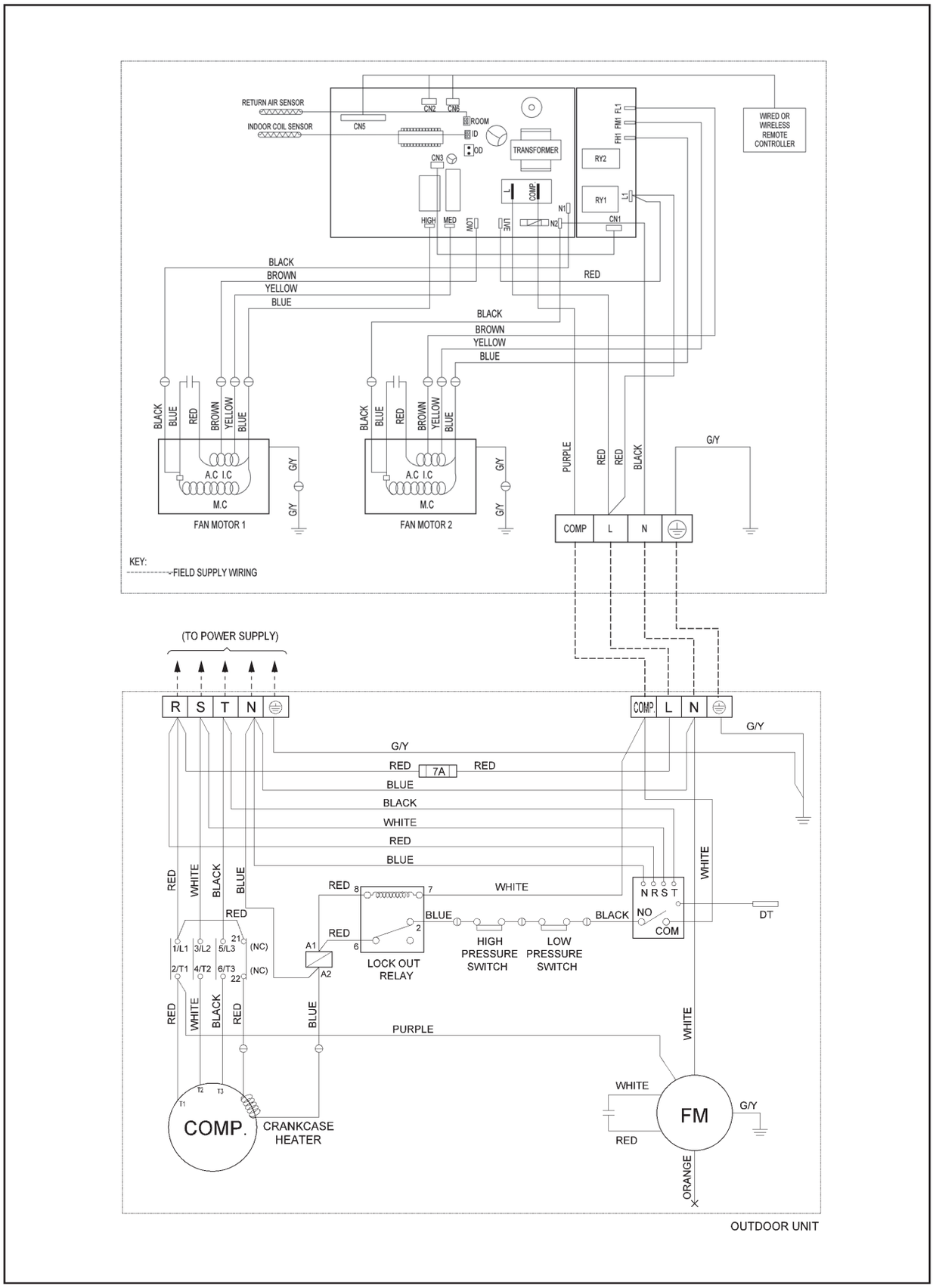
Outdoor Unit
Model: RR90/100/125DXY1



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Indoor Unit
Model: FHRN140CXV1

Outdoor Unit
Model: RR140DXY1

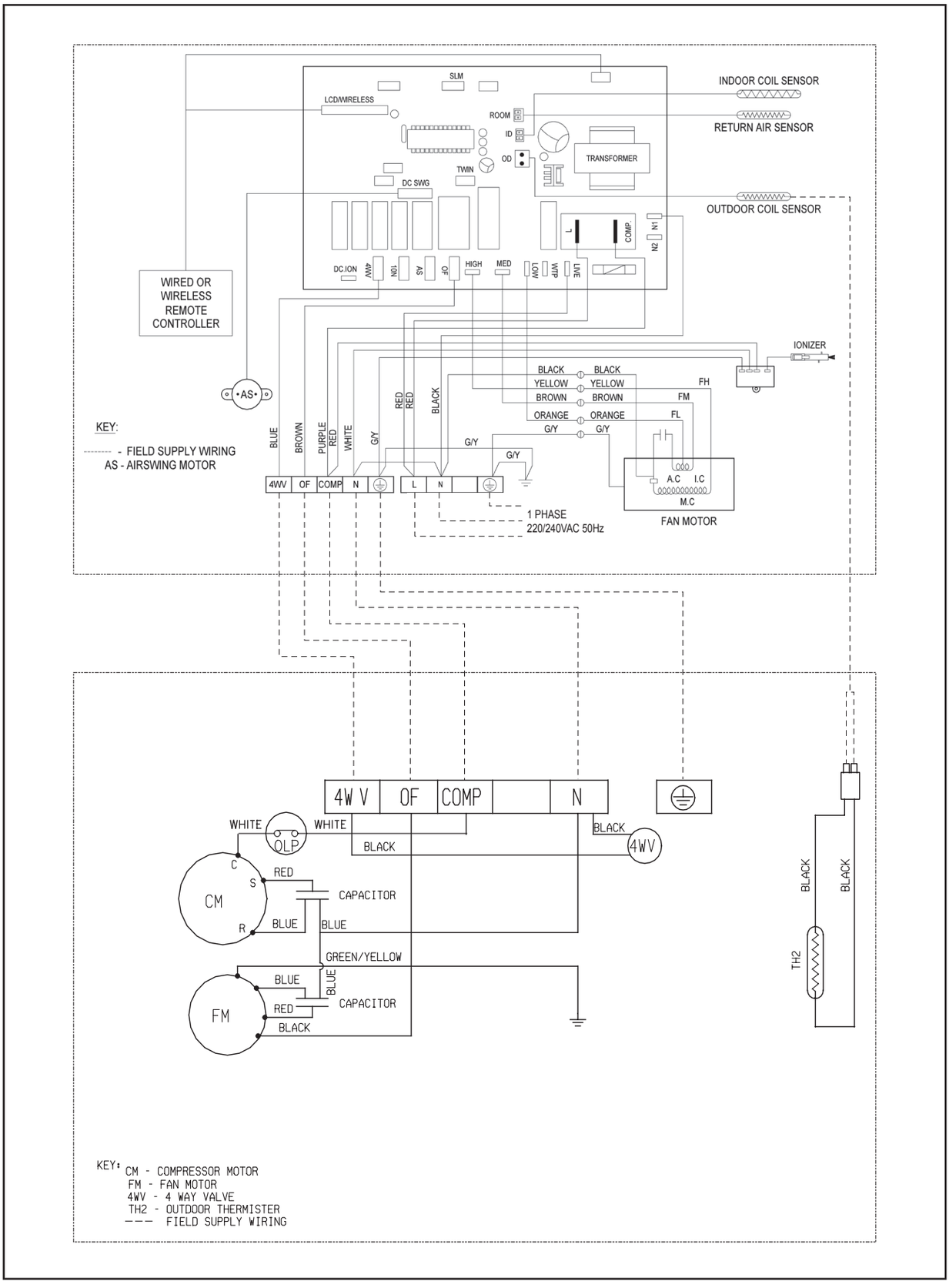


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Heatpump

Indoor Unit
Model: FLQN35EXV1

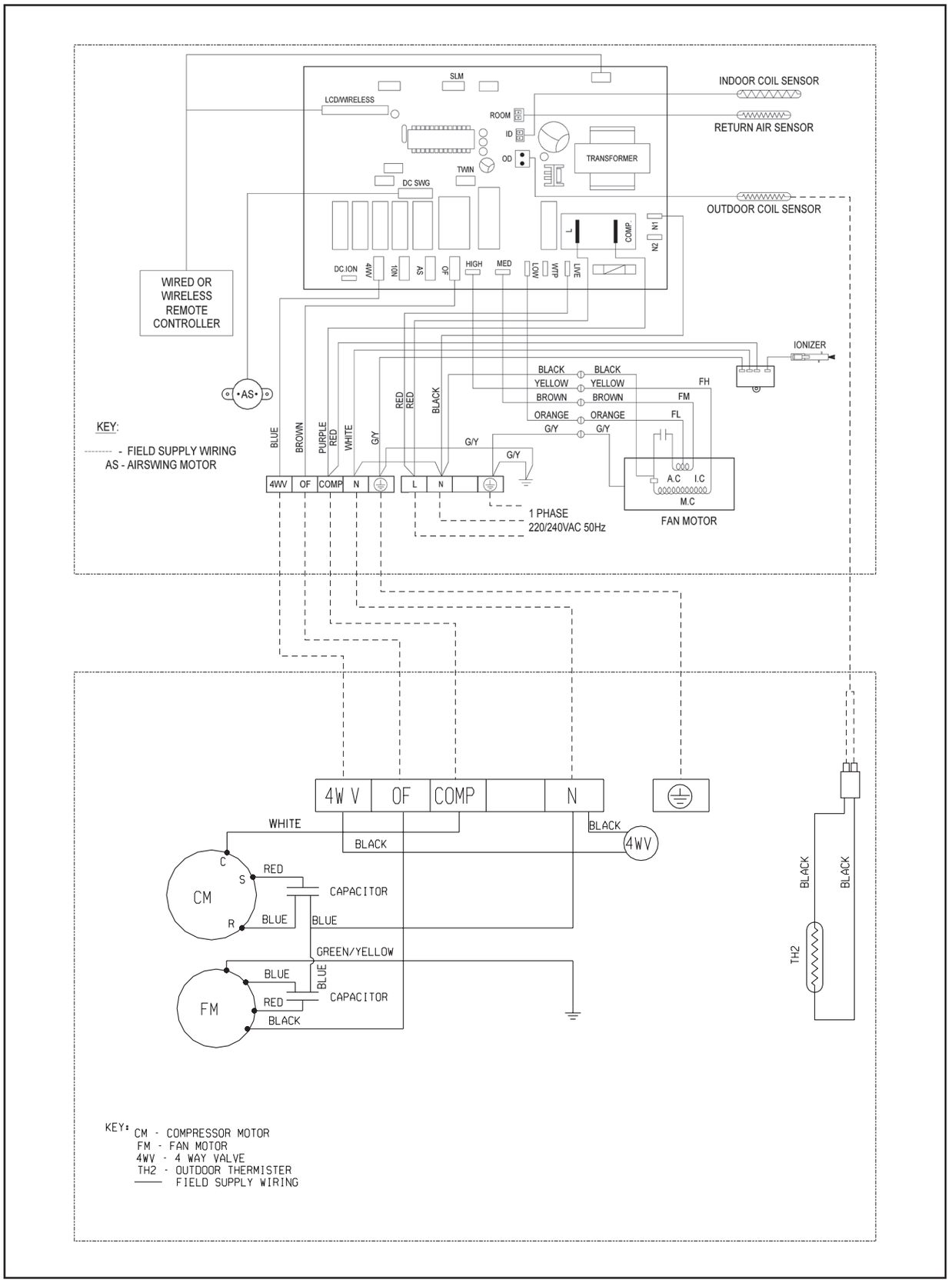
Outdoor Unit
Model: RYN35CXV1



DAIKIN_FLRN_FLQN.indb 64 1/8/2013 9:59:14 AM

Indoor Unit
Model: FLQN50/60EXV1

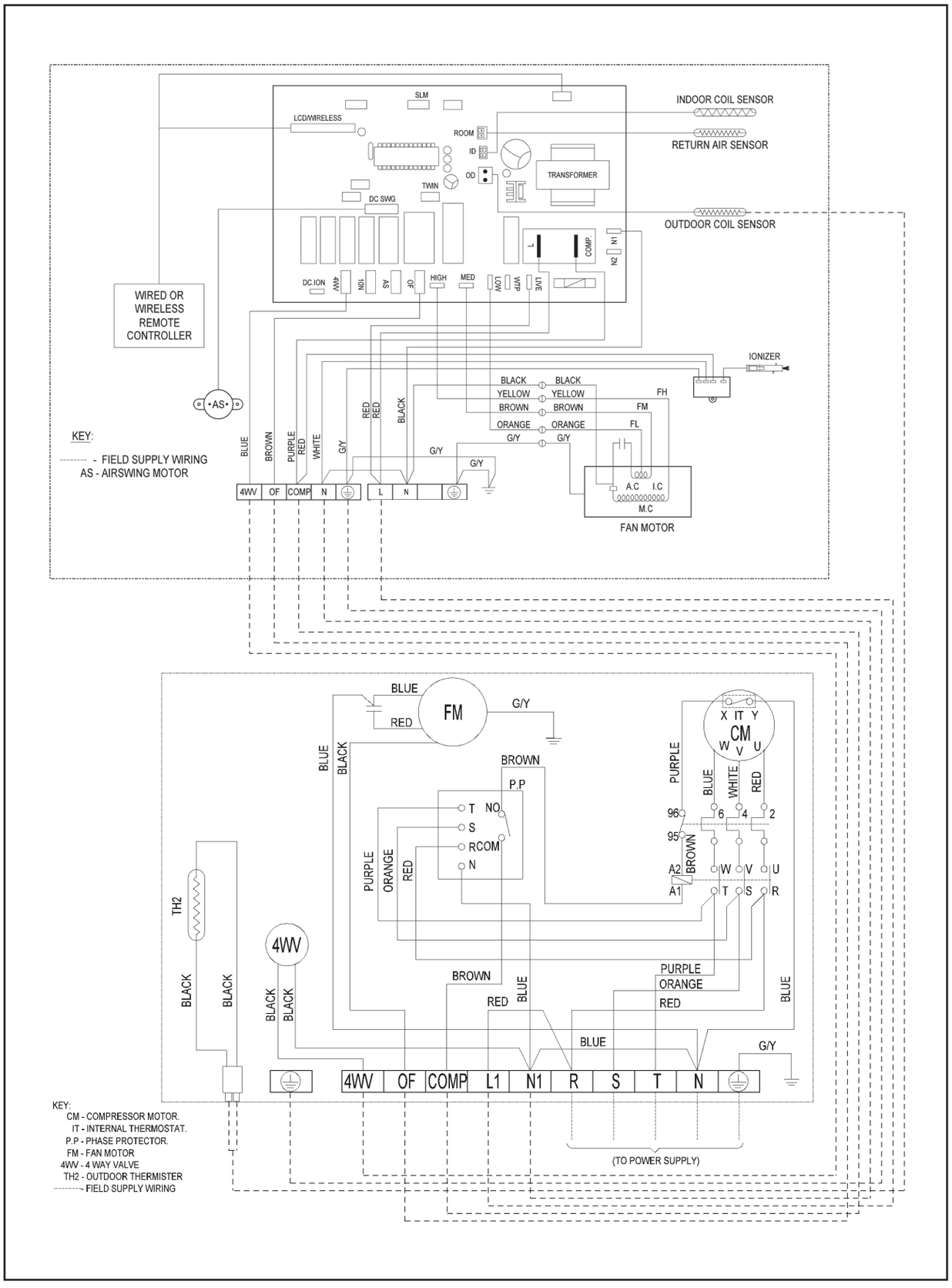
Outdoor Unit
Model: RYN50/60CXV1



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Indoor Unit
Model: FLQN50/60EXV1

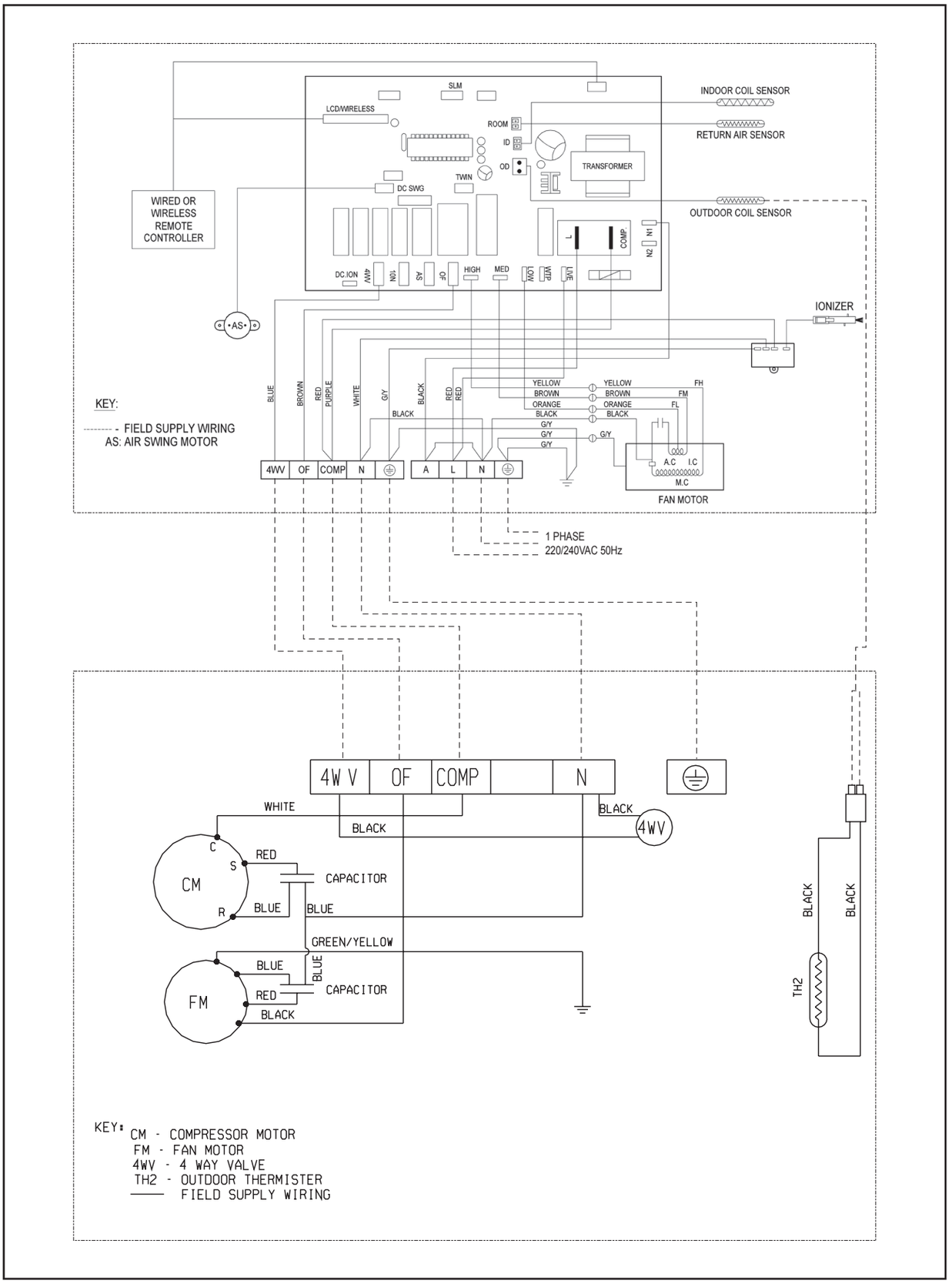
Outdoor Unit
Model: RYN50/60CXY1



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Indoor Unit
Model: FLQN71EXV1

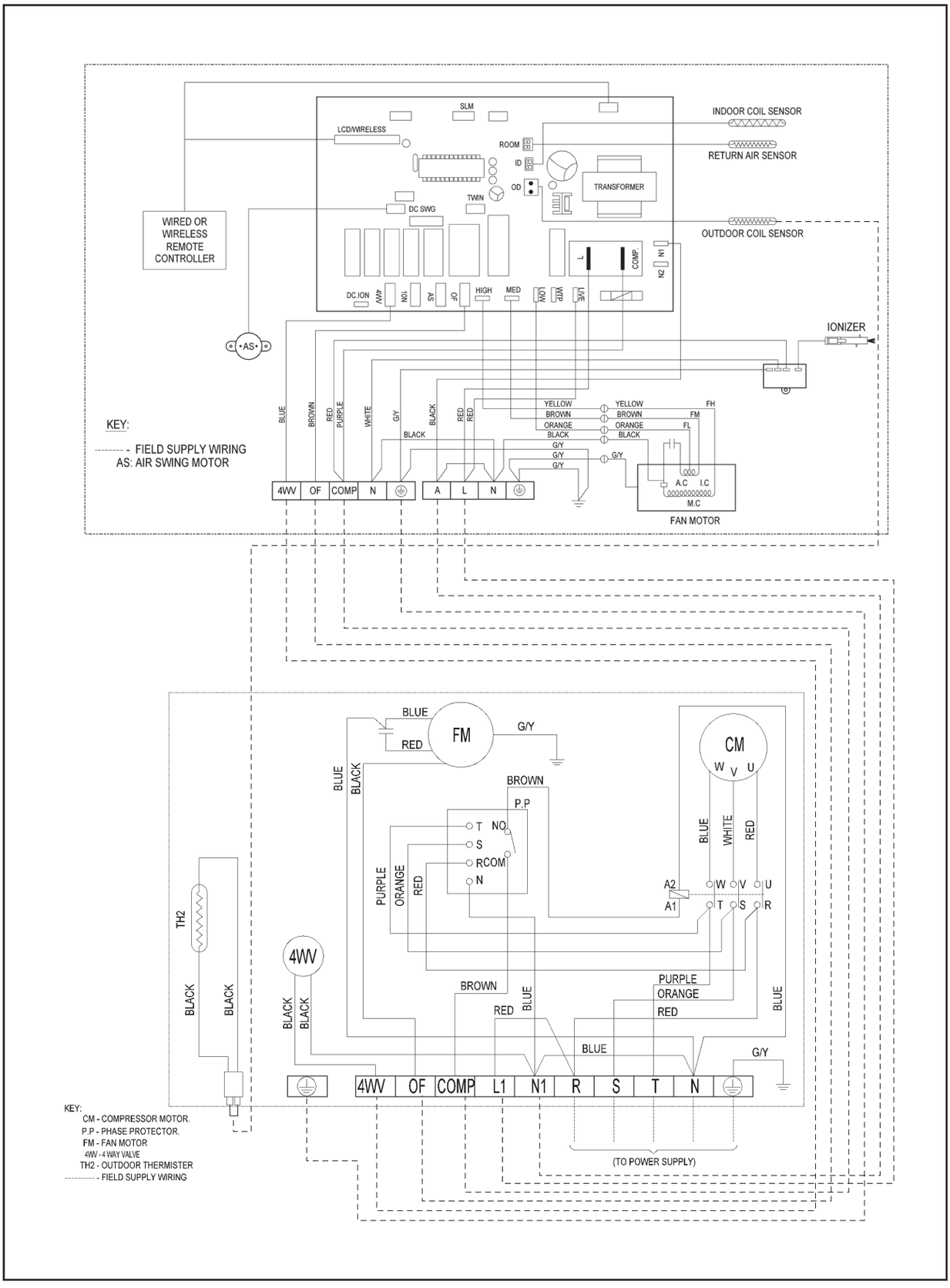
Outdoor Unit
Model: RQ71CXV1



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Indoor Unit
Model: FLQN71EXV1

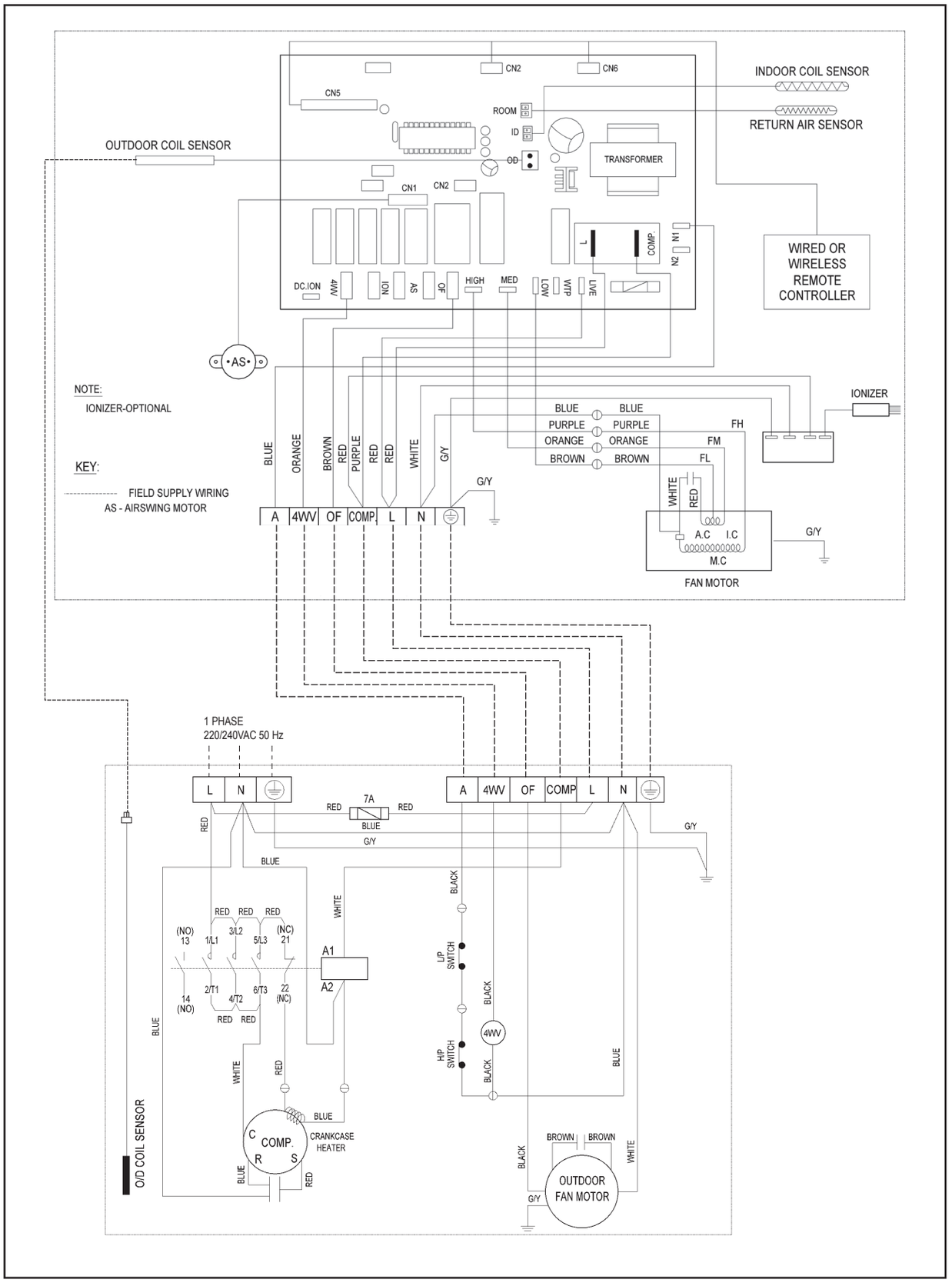
Outdoor Unit
Model: RQ71CXY1



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Indoor Unit
Model: FLQN90EXV1

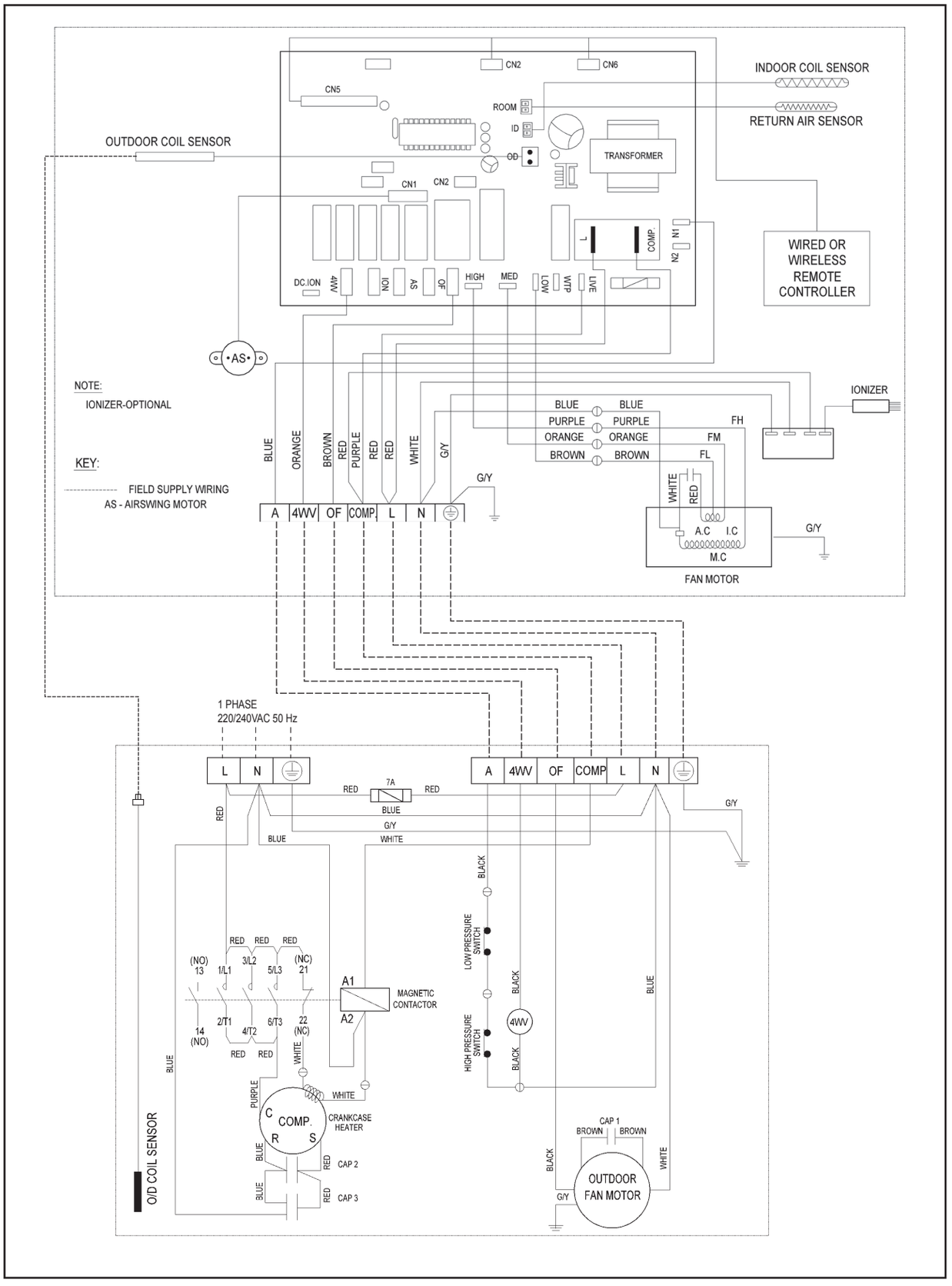
Outdoor Unit
Model: RQ90DXV1



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Indoor Unit
Model: FLQN100EXV1

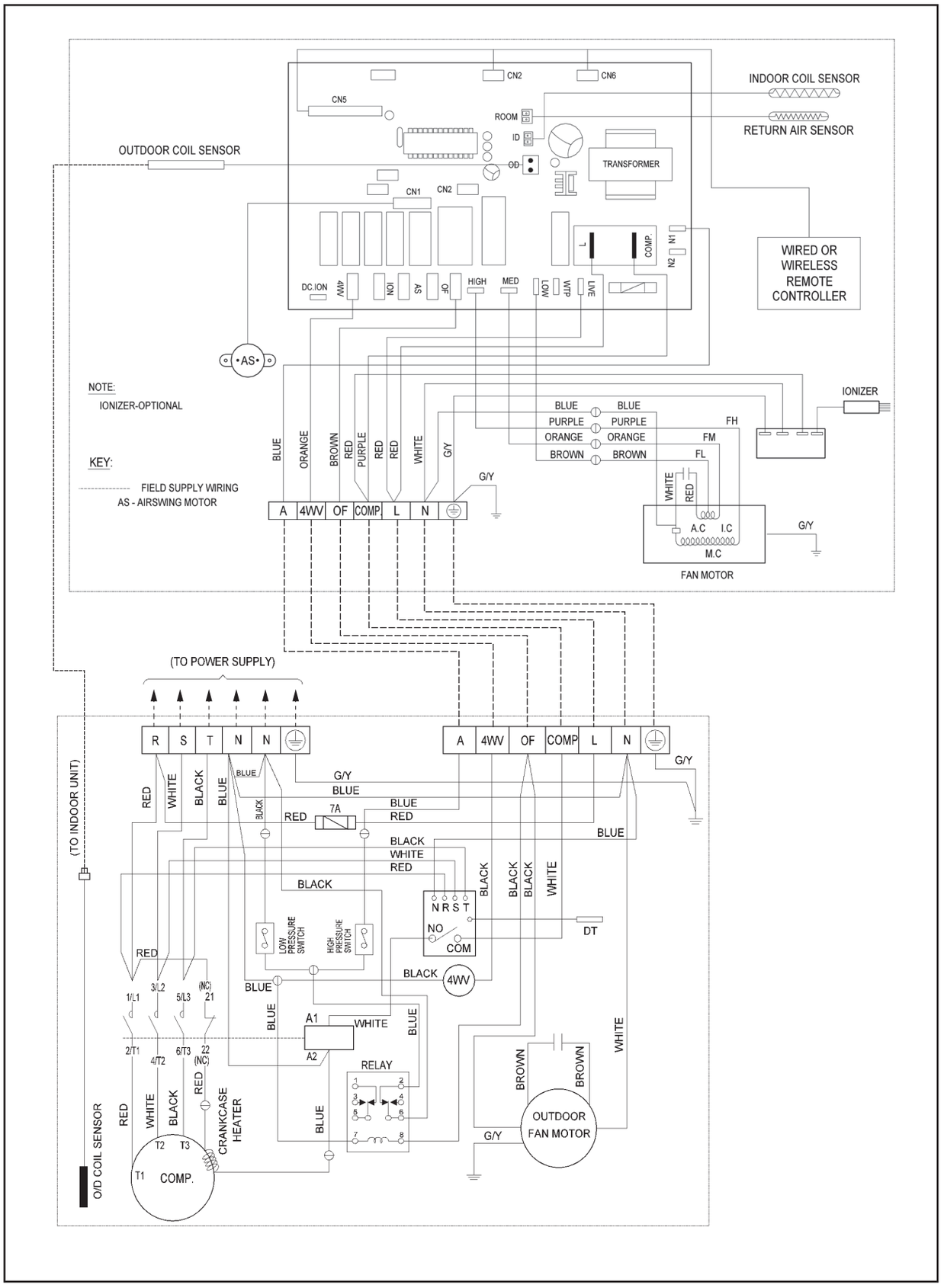
Outdoor Unit
Model: RQ100DXV1



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Indoor Unit
Model: FLQN90/100/125EXV1

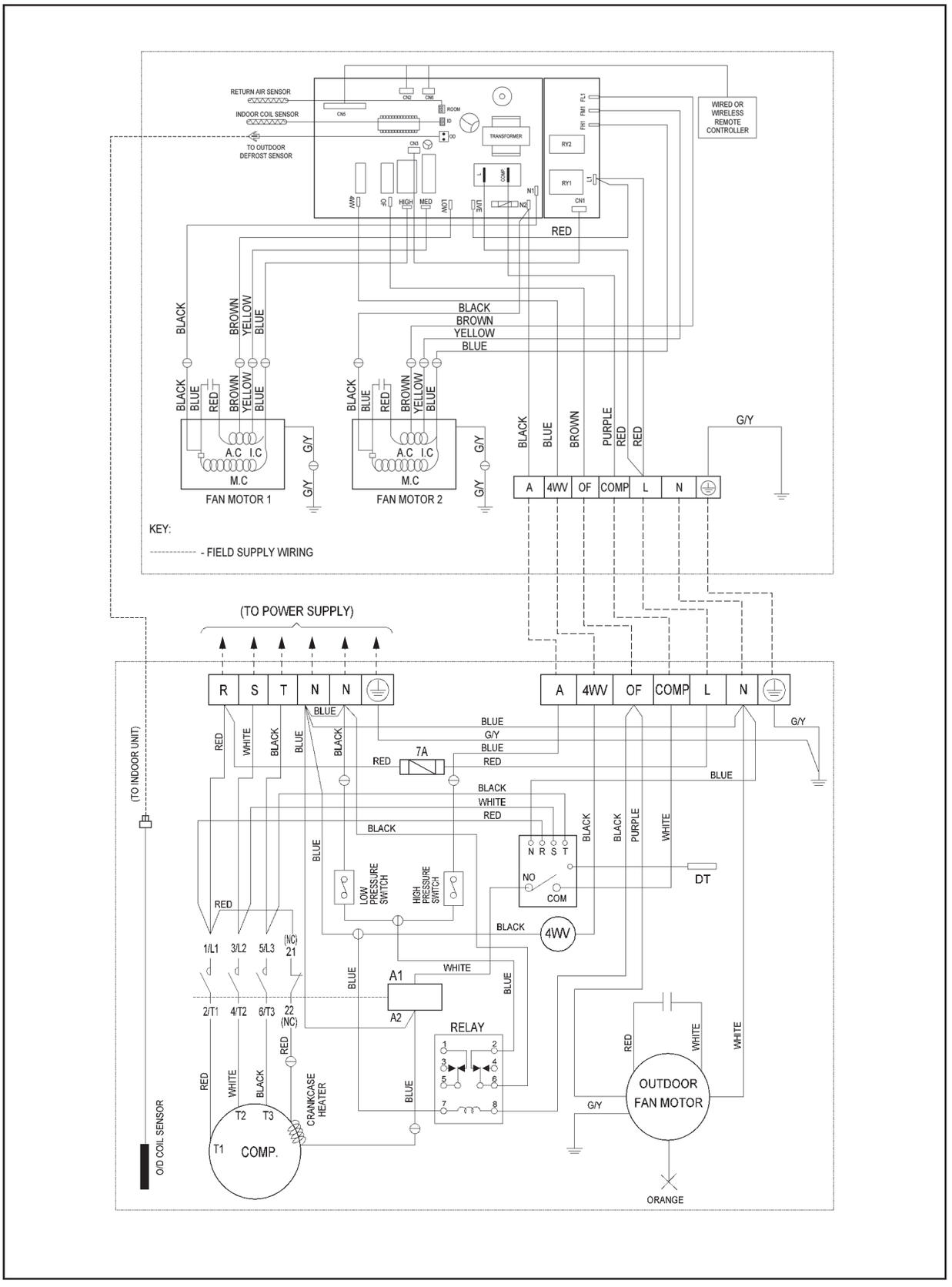
Outdoor Unit
Model: RQ90/100/125DXY1



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Indoor Unit
Model: FHQN140CXV1

Outdoor Unit
Model: RQ140DXY1



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Service & Maintenance

⚠ Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter.	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit.	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.

⚠ Caution

- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do no use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

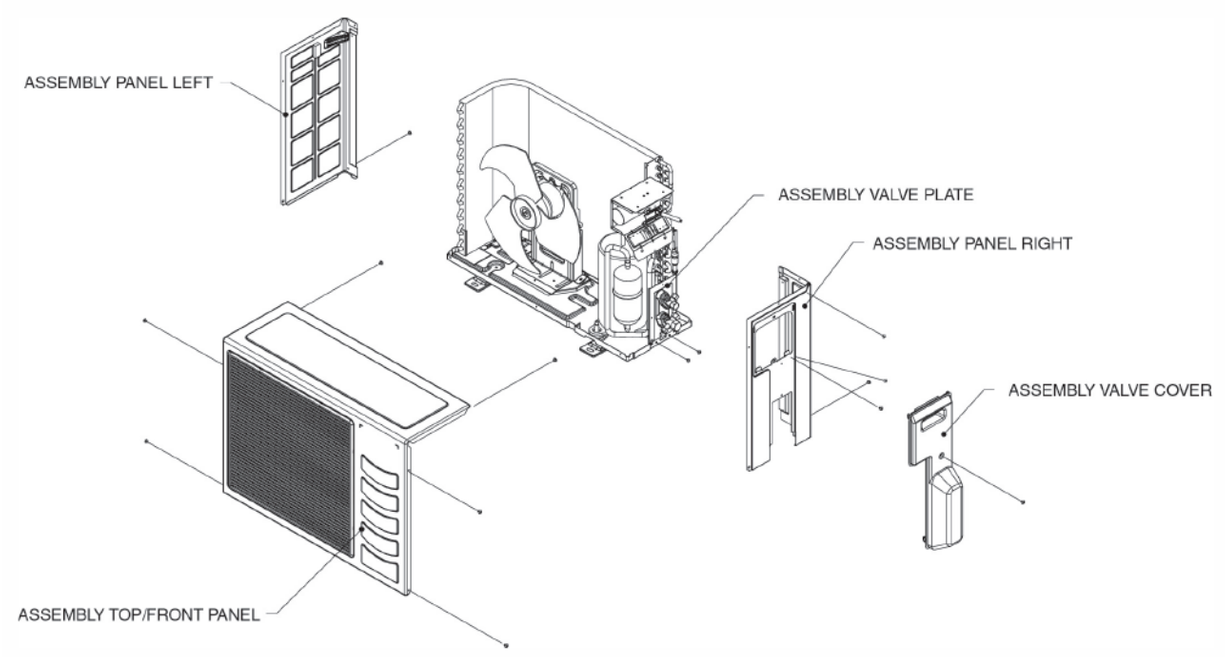
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Pre start up maintenance

(After extended shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensate drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

The design of the RN, RR, RYN, RQ outdoor series allows servicing to be carried out readily and easily. The removal of the top/front and back panel make almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once quarterly. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

⚠ Caution

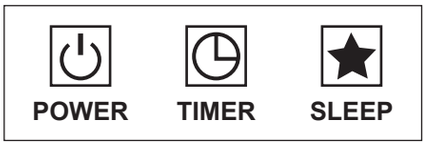
Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an air tight test. These gases could cause severe explosion and damage if expose to high temperature and pressure.

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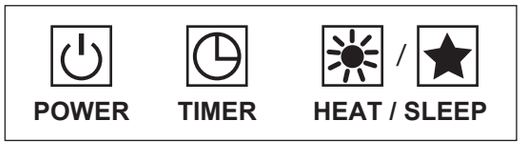
Troubleshooting

Indicator Lights

LED Indicator Light Display - Cooling Only



LED Indicator Light Display - Heatpump



LED Light Diagnostic Table

GREEN	ORANGE	RED	RED	Error Code	Operation / Faulty Indication	Action
○				-	Cooling mode	-
○	○			-	Timer On	-
○		○		-	Sleep mode On	-
○			○	-	Heating mode	-
○			◉	-	Auto Mode in cooling operation	-
○			○	-	Auto Mode in heating operation	-
◉ 1 time				E1	Room air sensor contact loose / short	Check room sensor connection / change room air sensor
◉ 2 times				E2	Indoor coil sensor contact open	Check indoor coil sensor connection / change indoor coil sensor
◉ 3 times				E3	Outdoor coil sensor contact open	Check outdoor coil sensor connection / change outdoor coil sensor
	◉ 1 time			E4	Compressor overload protection / Indoor or Outdoor coil sensor short	If running ampere highly increase, change the compressor. If not, replace the coil sensor.
	◉ 2 times			E6	Pump fault	Clear the clogging at drain pipe. If pump is not working, change the pump.
	◉ 3 times			E5	Gas leak	Top up refrigerant / check for leakage

○ ON ◉ BLINKING

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Phase Sequencer

The unit with Scroll Compressor only can rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

LED / Description	PW (Red)	P_R (Yellow)	P_S (Yellow)	P_T (Yellow)	Actions
Normal Operation	○	●	●	●	-
Reverse Phase	◑	◑	◑	◑	Switch off the unit. Check the 3 phase wiring.
T Phase Missing	◑	●	●	◑	Switch off the unit. Check the 3 phase wiring.
S Phase Missing	◑	●	◑	●	Switch off the unit. Check the 3 phase wiring.
R Phase Missing	●	●	●	●	Switch off the unit. Check the 3 phase wiring.
S & T Phase Missing*	◑	●	◑	◑	Switch off the unit. Check the 3 phase wiring.
Overload*	◑	●	●	●	High discharge temperature. Check refrigerant system.
Sensor Missing*	◑	○	○	○	Switch off the unit. Plug in sensor.

○ ON ● OFF ◑ BLINK

Note:
1. " * " indicates additional function for PP01 phase sequencer.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (COMMON) and 81 (NO) will cut off.
3. The unit will check discharge sensor availability only during power up.
4. All errors can only recover through manually reset.

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Error Code / Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	• Protection against frequent starting. • Wait for 3 or 4 minutes for the compressor to start operating by itself.
3	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating). Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

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Diagnostic Guidelines

By means of pressure readings:

Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air). 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side **Low side**	•				•	1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	•	•				1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side **Low side**				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air).
High side **Low side**				•	•	1. Air intake temperature of indoor unit too high.

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DAIKIN

R410A

TECHNICAL MANUAL

Split Unit Air Conditioner
Ceiling Concealed Series

FDMRN-C, FDMQN-C Series

— Cooling only & Heatpump [50Hz] —

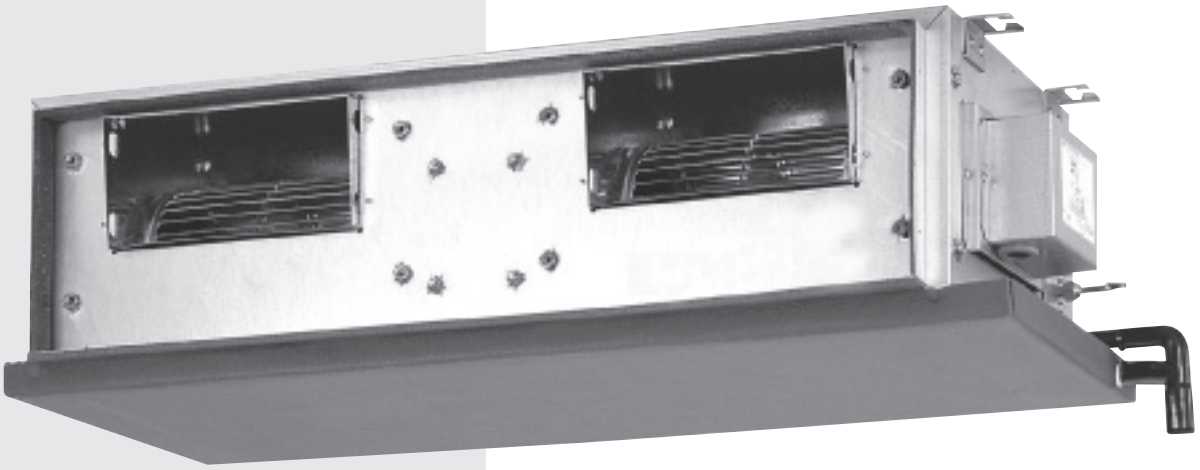
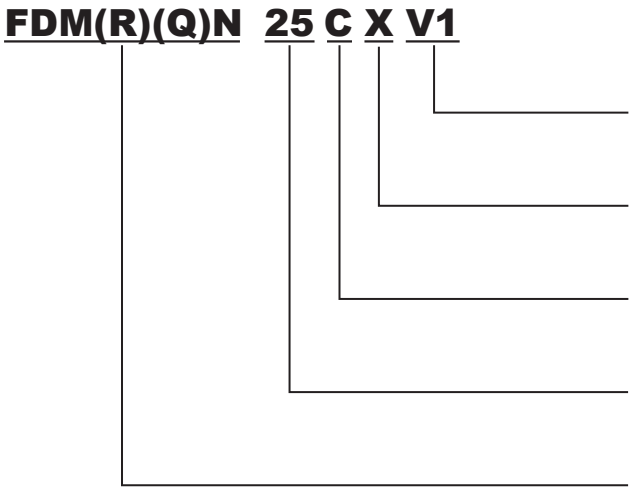


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Nomenclature

Indoor



Power Supply
V1: 1 phase 50 Hz 220-240V

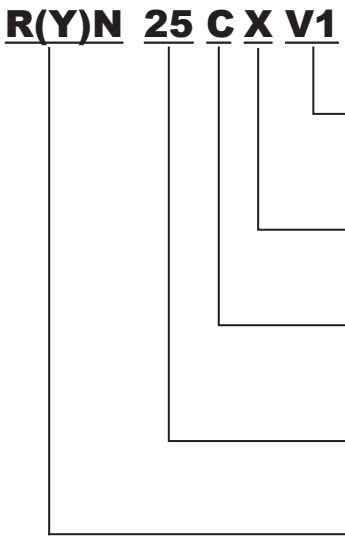
Production
X: OYLM

Product Series
C: C Series

Capacity
25: 2.5kW

Model
FDMRN: Ceiling Concealed Standard Static (Cooling Only)
FDMQN: Ceiling Concealed Standard Static (Heatpump)

Outdoor



Power Supply
V1: 1 phase 50 Hz 220-240V
Y1: 3 phase 50 Hz 380-415V

Production
X: OYLM

Product Series
C: C Series
D: D Series

Capacity
25: 2.5kW

Model
RN: Single Split Condensing Unit (Cooling Only)
RYN: Single Split Condensing Unit (Heatpump)
RR: Single Split Condensing Unit (Cooling Only)
RQ: Single Split Condensing Unit (Heatpump)

Product Line-Up

Indoor Unit
FDMRN / FDMQN

Nomenclature		Classification								
		Handset		PCB		Fin	Refrigerant Control		Air Purification	Others
		BRC51A62	BRC51A61	L208A EC	L208A AP	Bare Aluminium	Cap Tube	Without Cap Tube	Air Filter	Built-in Filter Rail
COOLING	FDMRN25CXV1	X		X		X		X	X	
	FDMRN35CXV1	X		X		X		X	X	
	FDMRN50CXV1	X		X		X		X	X	
	FDMRN60CXV1	X		X		X		X	X	
	FDMRN71CXV1	X		X		X		X	X	X
	FDMRN100CXV1	X		X		X		X	X	X
	FDMRN125CXV1	X		X		X		X	X	X
	FDMRN140CXV1	X		X		X		X	X	X
HEATPUMP	FDMQN25CXV1		X		X	X		X	X	
	FDMQN35CXV1		X		X	X		X	X	
	FDMQN50CXV1		X		X	X		X	X	
	FDMQN60CXV1		X		X	X		X	X	
	FDMQN71CXV1		X		X	X		X	X	X
	FDMQN100CXV1		X		X	X		X	X	X
	FDMQN125CXV1		X		X	X		X	X	X
	FDMQN140CXV1		X		X	X		X	X	X

Outdoor Unit
R(Y)N / RR / RQ

Nomenclature		Classification												
		Refrigerant Control		Fin			Safety Devices				Compressor		Others	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow	
COOLING	RN25CXV1	X				X						X		
	RN25CGXV1	X			X							X		
	RN35CXV1	X				X						X		
	RN35CGXV1	X			X							X		
	RN50CXV1	X				X						X		
	RN50CGXV1	X			X							X		
	RN50CXY1	X				X	X			X		X		
	RN50CGXY1	X			X		X			X		X		
	RN60CXV1	X				X						X		
	RN60CGXV1	X			X							X		
	RN60CXY1	X				X	X			X		X		
	RN60CGXY1	X			X		X			X		X		
	RR71CXV1	X				X						X		
	RR71CGXV1	X			X							X		
	RR71CXY1	X				X	X			X		X		
	RR71CGXY1	X			X		X			X		X		
	RR90DXV1	X				X		X	X		X			
	RR90DGXV1	X			X			X	X		X			
	RR90DXY1	X				X	X	X	X	X	X			
	RR90DGXY1	X			X		X	X	X	X	X			
	RR100DXV1	X				X		X	X		X			
	RR100DGXV1	X			X			X	X		X			
	RR100DXY1	X				X	X	X	X	X	X			
	RR100DGXY1	X			X		X	X	X	X	X			
	RR125DXY1	X				X	X	X	X	X	X			
	RR125DGXY1	X			X		X	X	X	X	X			
	RR140DXY1	X				X	X	X	X	X	X			
	RR140DGXY1	X			X		X	X	X	X	X			

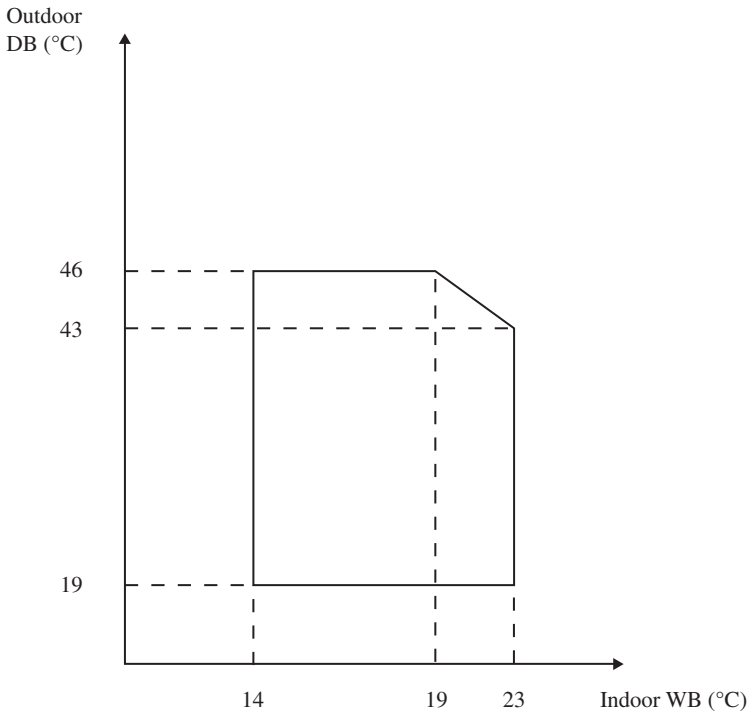
Nomenclature		Classification											
		Refrigerant Control		Fin			Safety Devices				Compressor		Others
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contactor	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow
HEATPUMP	RYN25CXV1	X				X						X	X
	RYN25CGXV1	X			X							X	X
	RYN35CXV1	X				X						X	X
	RYN35CGXV1	X			X							X	X
	RYN50CXV1	X				X						X	X
	RYN50CGXV1	X			X							X	X
	RYN50CXY1	X				X	X			X		X	X
	RYN50CGXY1	X			X		X			X		X	X
	RYN60CXV1	X				X						X	X
	RYN60CGXV1	X			X							X	X
	RYN60CXY1	X				X	X			X		X	X
	RYN60CGXY1	X			X		X			X		X	X
	RQ71CXV1	X				X						X	X
	RQ71CGXV1	X			X							X	X
	RQ71CXY1	X				X	X			X		X	X
	RQ71CGXY1	X			X		X			X		X	X
	RQ90DXV1	X				X		X	X		X		X
	RQ90DGXV1	X			X			X	X		X		X
	RQ90DXY1	X				X	X	X	X	X	X		X
	RQ90DGXY1	X			X		X	X	X	X	X		X
	RQ100DXV1	X				X		X	X		X		X
	RQ100DGXV1	X			X			X	X		X		X
	RQ100DXY1	X				X	X	X	X	X	X		X
	RQ100DGXY1	X			X		X	X	X	X	X		X
	RQ125DXY1	X				X	X	X	X	X	X		X
	RQ125DGXY1	X			X		X	X	X	X	X		X
	RQ140DXY1	X				X	X	X	X	X	X		X
	RQ140DGXY1	X			X		X	X	X	X	X		X

Application Information

Operating Range

Ensure the operating temperature is in allowable range.

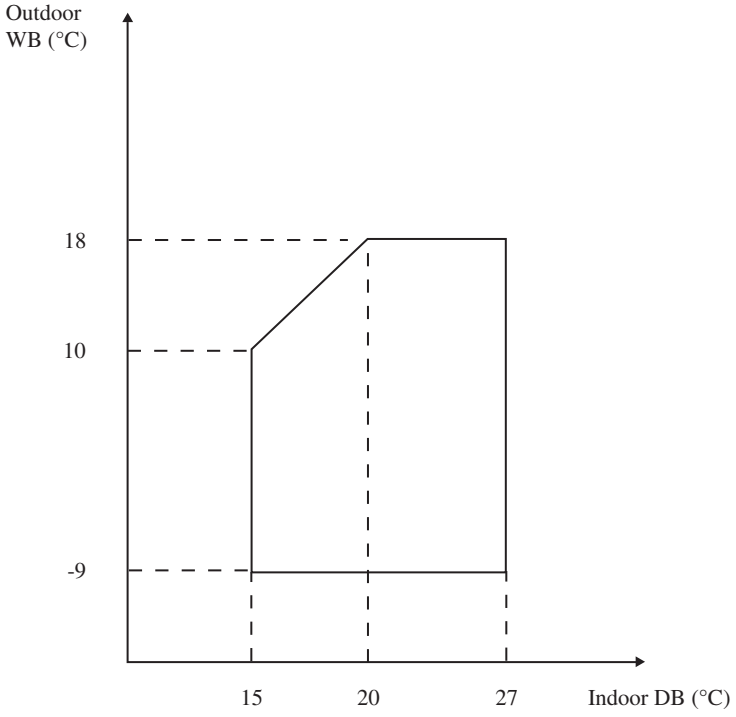
Cooling



⚠ Caution :

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heating

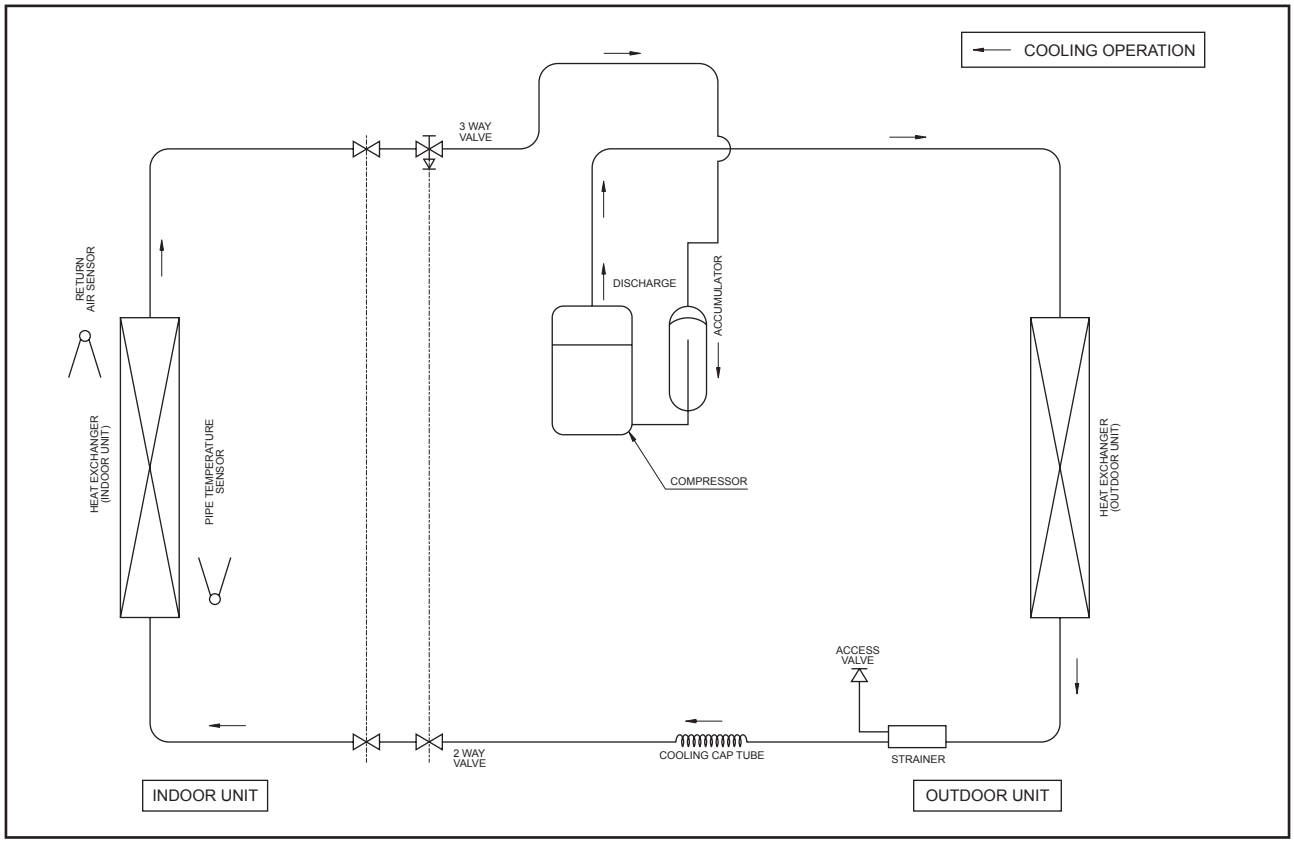


⚠ Caution :

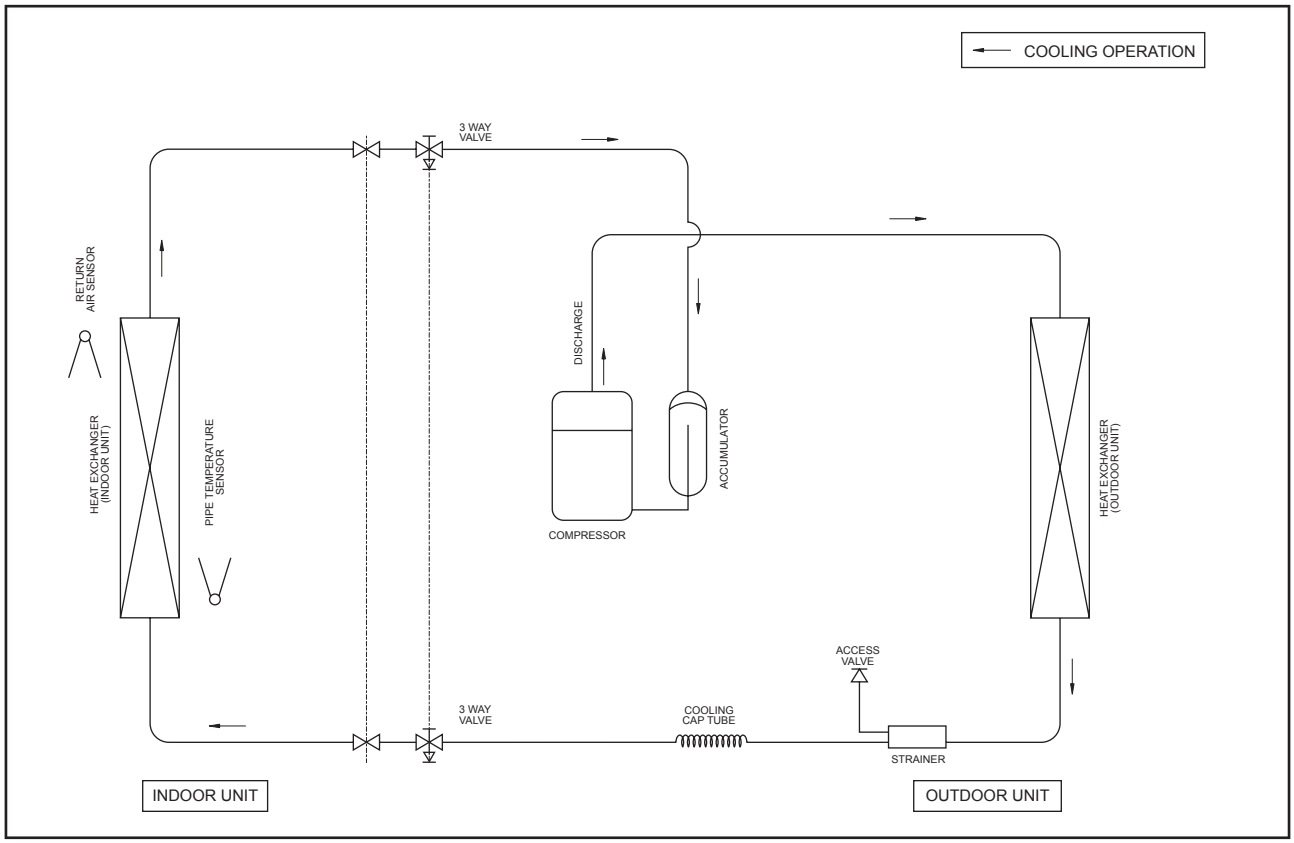
The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Refrigerant Circuit Diagrams

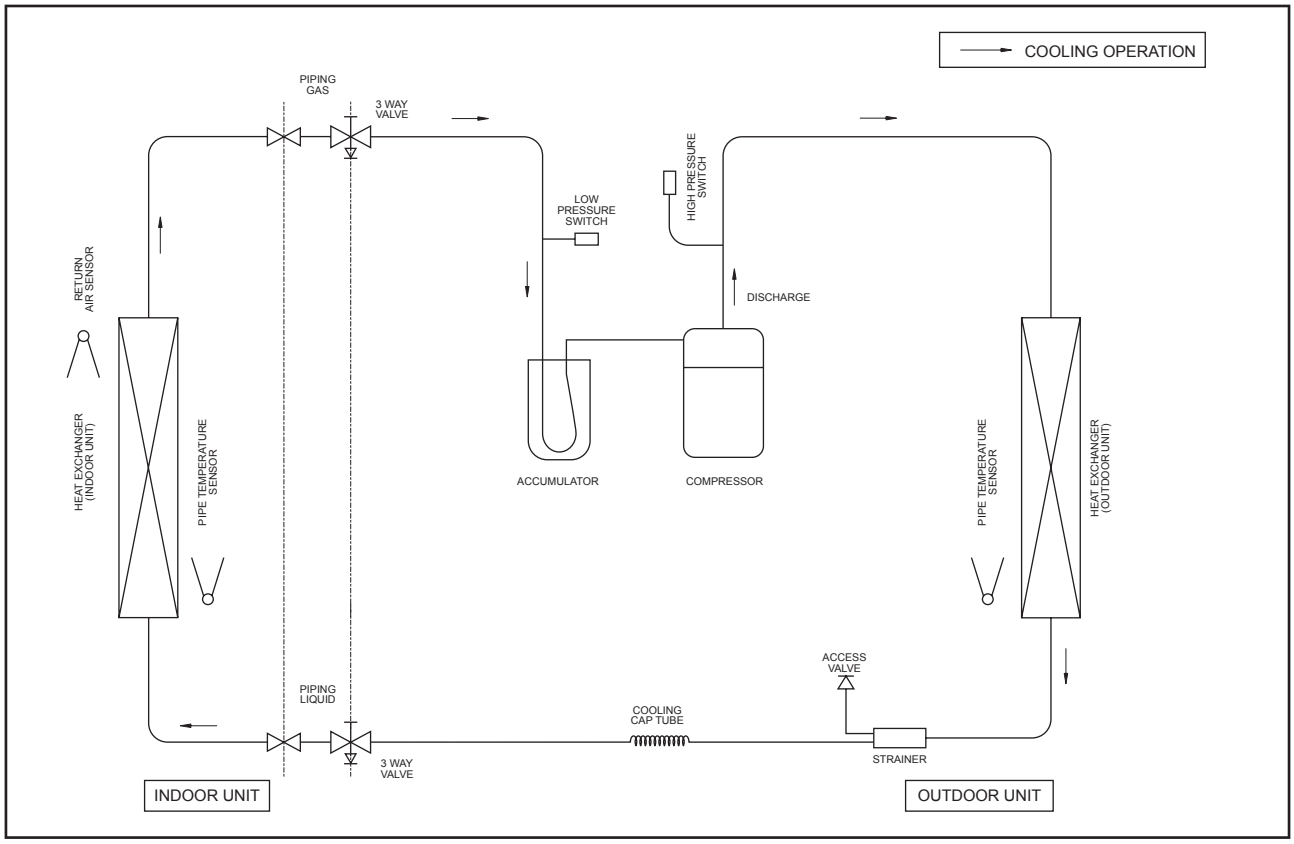
Model: FDMRN25/35/50/60CXV1 – RN25/35/50/60CXV1
FDMRN50/60CXV1 – RN50/60CXY1



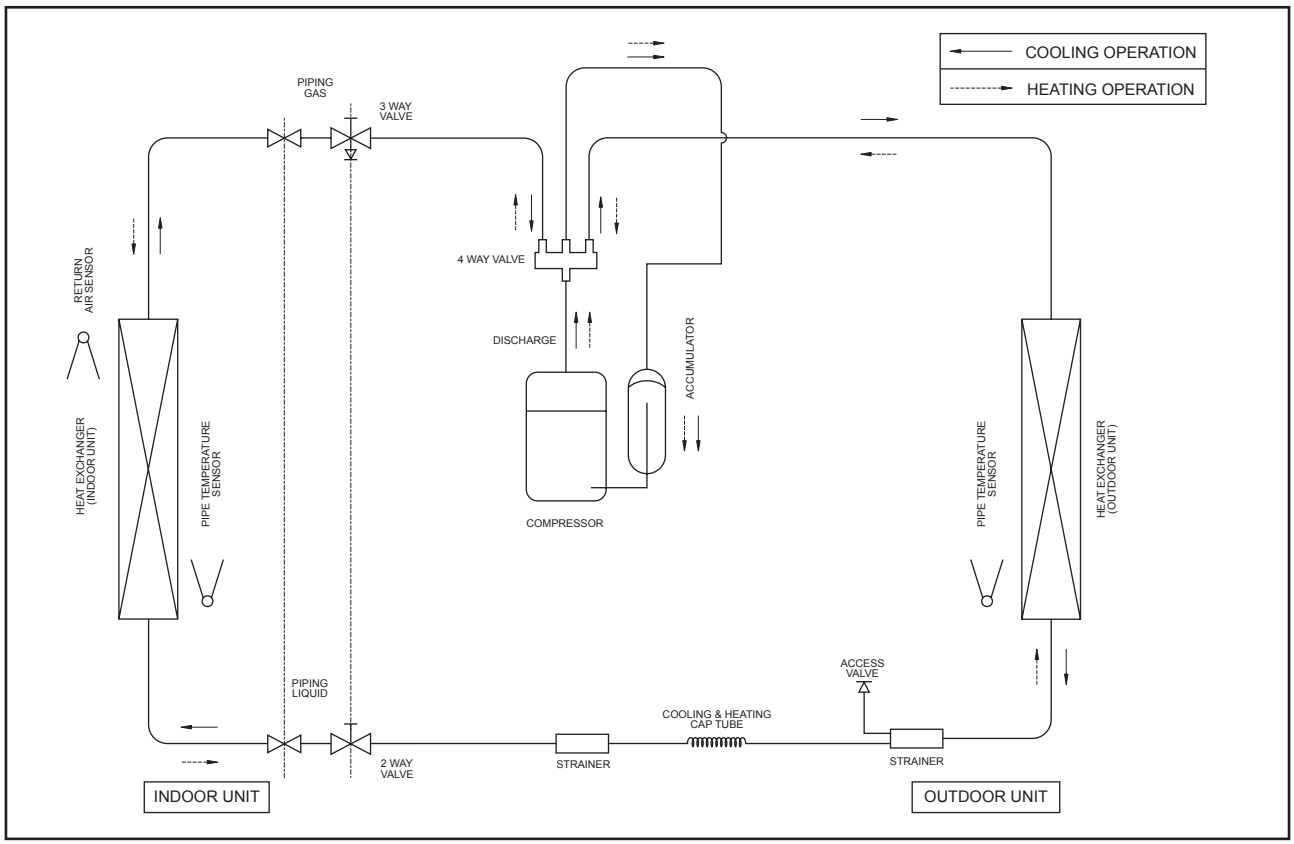
Model: FDMRN71CXV1 – RR71CXV1
FDMRN71CXV1 – RR71CXY1



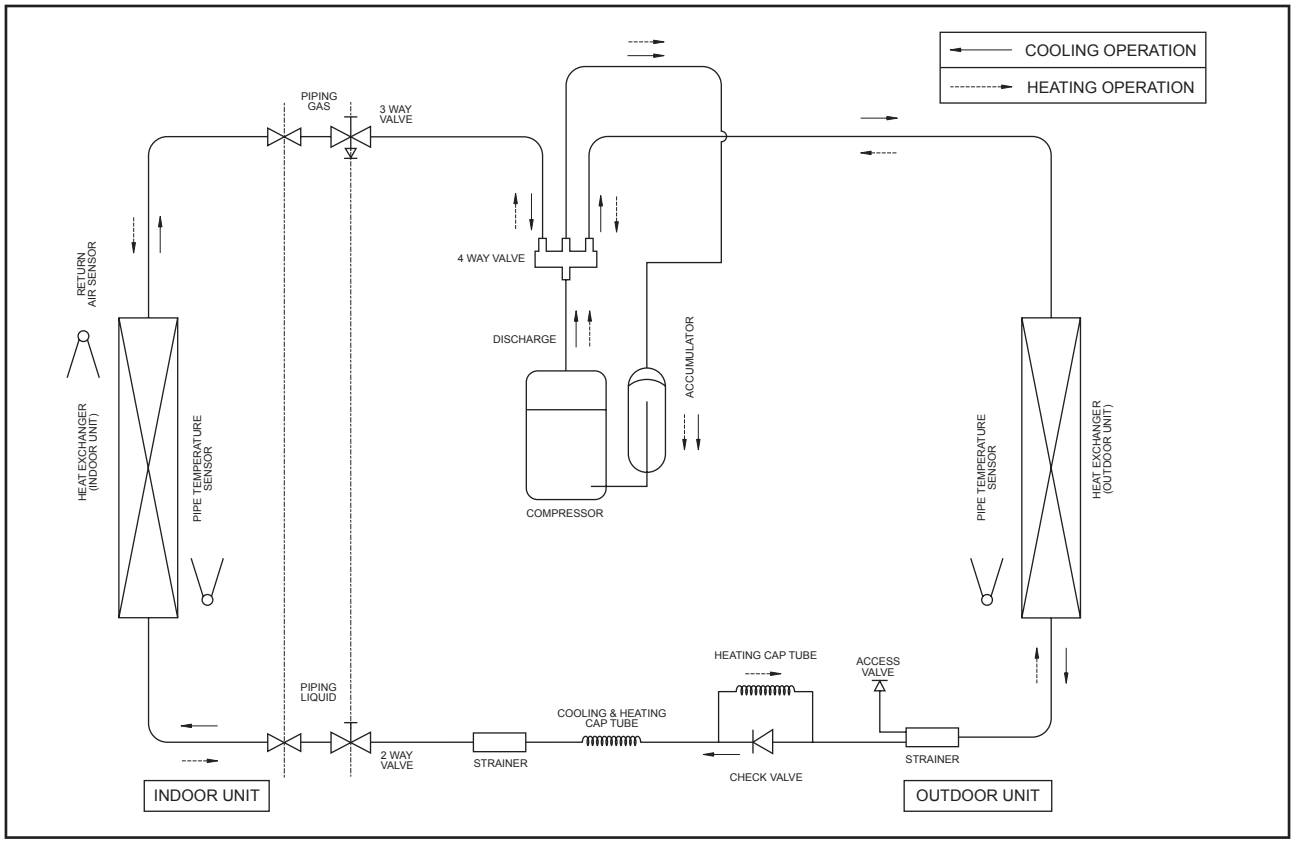
Model: FDMRN100CXV1 – RR90/100DXV1
FDMRN100/125/140CXV1 – RR90/100/125/140DXY1



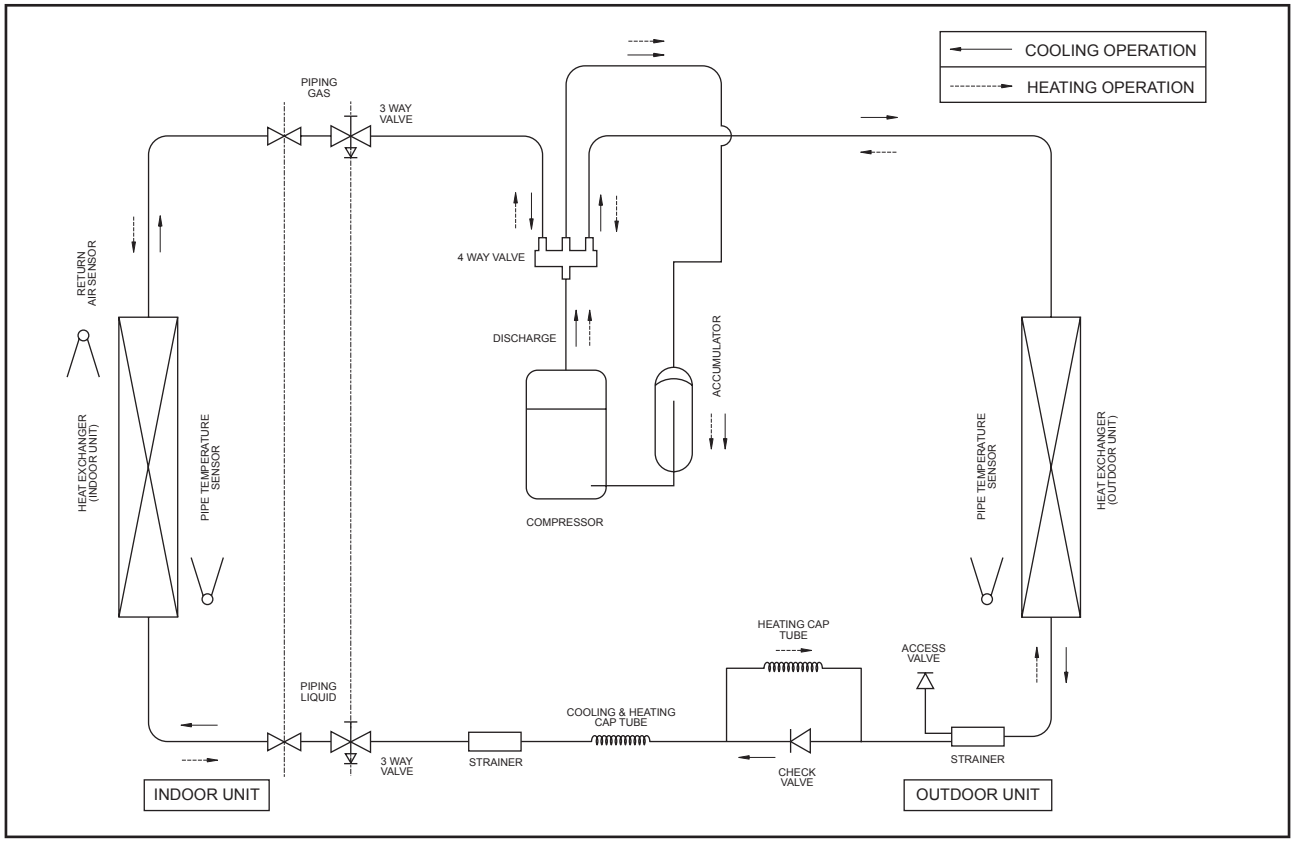
Model: FDMQN25CXV1 – RYN25CXV1



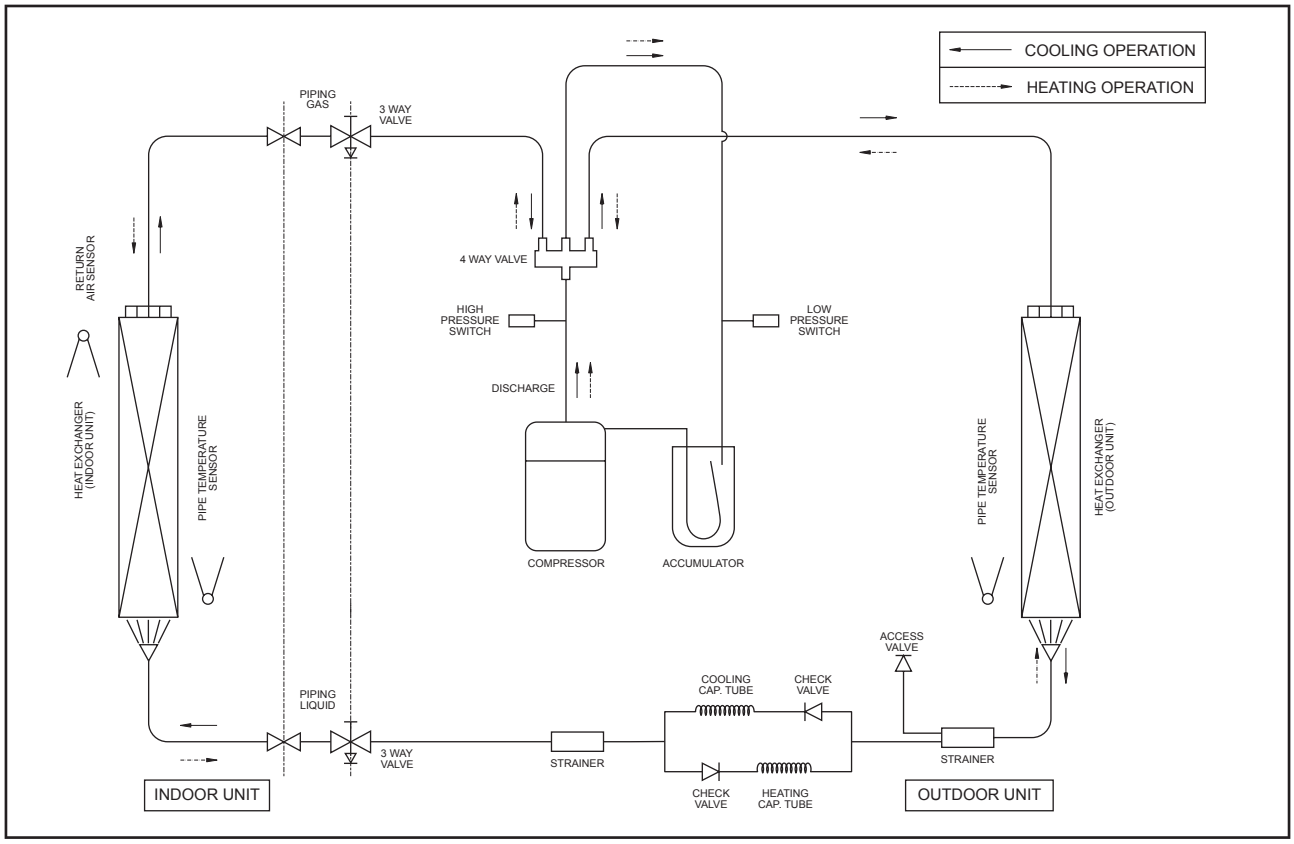
Model: FDMQN35/50/60CXV1 – RYN35/50/60CXV1
FDMQN50/60CXV1 – RYN50/60CXY1



Model: FDMQN71CXV1 – RQ71CXV1
FDMQN71CXV1 – RQ71CXY1



Model: FDMQN100CXV1 – RQ90/100DXV1
FDMQN100/125/140CXV1 – RQ90/100/125/140DXY1



Installation Guideline

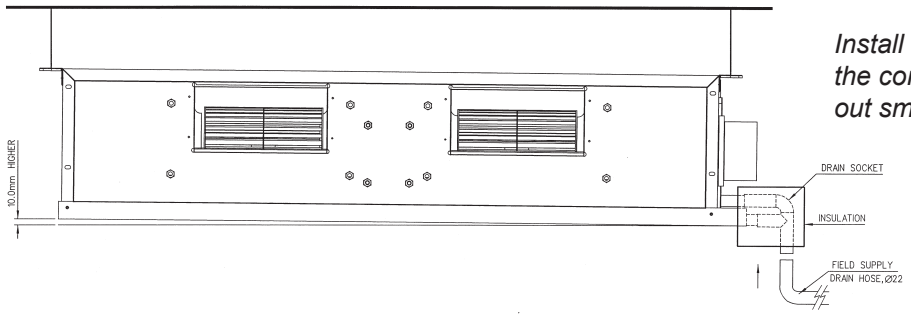
⚠ Caution

Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.

(1) Installation of Indoor Unit

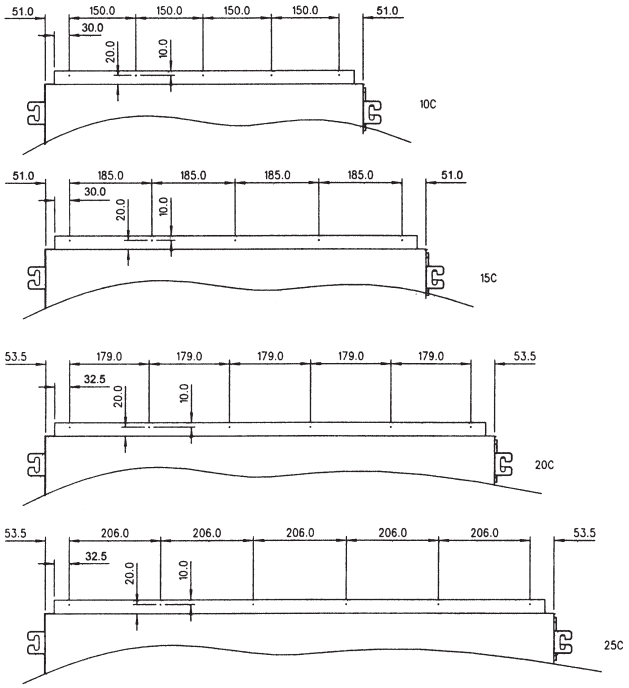
Preliminary Survey

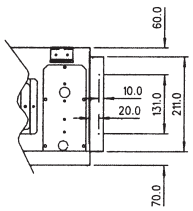
- Electrical supply and installation is to confirm to local authority's (e.g. National Electrical Board) codes and regulations.
- Voltage supply fluctuation must not exceed ± 10% of rated voltage. Electricity supply lines must be independent of welding transformers which can cause high supply fluctuation.
- Ensure that the location is convenient for wiring, piping and drainage.
- The indoor unit must be installed in such that free from any obstacles in path of cool air discharge and warm air return, and must allow spreading or air throughout the room (near the centre of the room).
- Clearance must be provided for the indoor unit from the wall and obstacles as shown in the figure.
- Use the hanger supplied with the unit.
- Ensure the support is strong enough to withstand the weight of the unit.
- Use the supplied drain socket to connect the drain pipe (the drain socket is only available for FDMRN25CXV1 / FDMQN25CXV1 to FDMRN60CXV1 / FDMQN60CXV1)



Install the unit in such a way that the condensate water can flow out smoothly.

The diagrams below show the screws position for duct work connection.

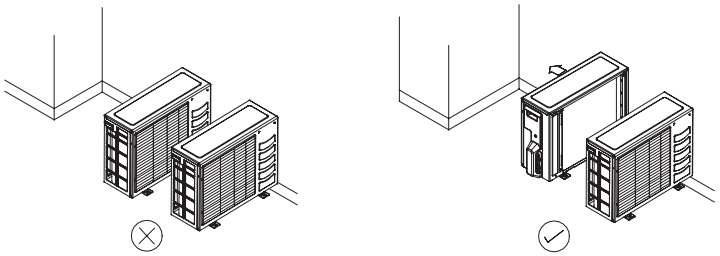




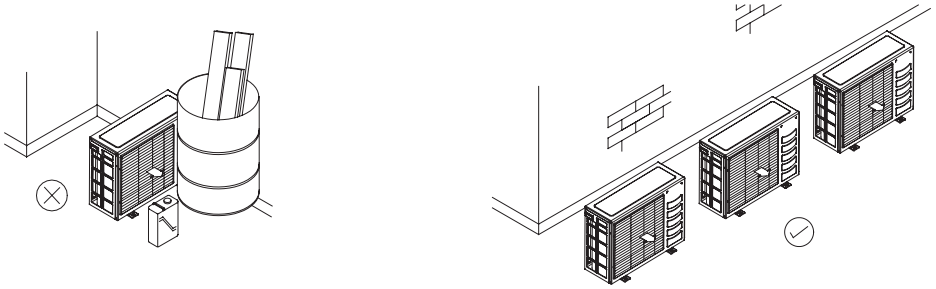
(2) Installation of Outdoor Unit

As condensing temperature rises, evaporating temperature rises and cooling capacity drops. In order to achieve maximum cooling capacity, the location selected for outdoor unit should fulfill the following requirements:

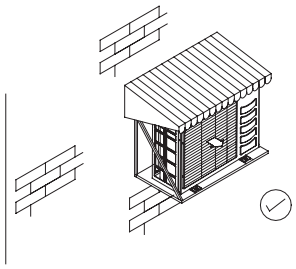
- Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



- Ensure that there is no obstruction of air flow into or out of the unit. Remove obstacles which block air intake or discharge.
- The location must be well ventilated, so that the unit can draw in and distribute plenty of air thus lowering the condensing temperature.



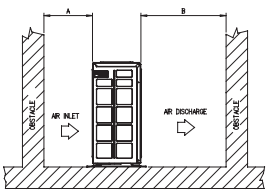
- A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.

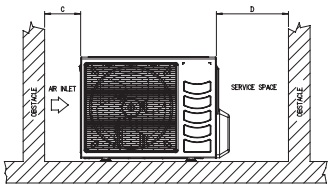


- The location must not be susceptible to dust or oil mist.

Installation Clearance

- Outdoor units must be installed such that there is no short circuit of the hot discharge air or obstruction to smooth air flow. Select the coolest possible place where intake air should not be hotter than the outside temperature (max. 45˚C).





ALL MODEL	A	B	C	D
Minimum Distance	300 mm	1000 mm	300 mm	500 mm

⚠ Caution

If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such substances may lead to failure of the unit.

(3) Cable Size

Model	Unit	FDMRN25CXV1	FDMRN35CXV1	FDMRN50CXV1	FDMRN60CXV1	FDMRN71CXV1
		RN25CXV1	RN35CXV1	RN50CXV1	RN60CXV1	RR71CXV1
Power supply cable size Number of wire	mm^2	1.5 3	1.5 3	2.5 3	2.5 3	2.5 3
Interconnection cable size Number of wire	mm^2	1.5 3	1.5 3	2.5 3	2.5 3	2.5 3
Recommended fuse	A	10	10	16	20	20

Model	Unit	FDMRN50CXV1	FDMRN60CXV1	FDMRN71CXV1	FDMRN100CXV1	FDMRN100CXV1
		RN50CXY1	RN60CXY1	RR71CXY1	RR90DXV1	RR100DXV1
Power supply cable size Number of wire	mm^2	1.5 5	1.5 5	2.5 5	4.0 3	4.0 3
Interconnection cable size Number of wire	mm^2	1.0 4	1.0 4	1.0 4	2.5 4	2.5 4
Recommended fuse	A	6	6	8	25	25

Model	Unit	FDMRN100CXV1	FDMRN100CXV1	FDMRN125CXV1	FDMRN140CXV1
		RR90DXY1	RR100DXY1	RR125DXY1	RR140DXV1
Power supply cable size Number of wire	mm^2	1.5 5	1.5 5	2.5 5	2.5 5
Interconnection cable size Number of wire	mm^2	1.5 4	1.5 4	2.5 4	2.5 4
Recommended fuse	A	10	10	16	20

Model	Unit	FDMQN25CXV1	FDMQN35CXV1	FDMQN50CXV1	FDMQN60CXV1	FDMQN71CXV1
		RYN25CXV1	RYN35CXV1	RYN50CXV1	RYN60CXV1	RQ71CXV1
Power supply cable size Number of wire	mm^2	1.5 3	1.5 3	2.5 3	2.5 3	2.5 3
Interconnection cable size Number of wire	mm^2	1.5 5	1.5 5	2.5 5	2.5 5	2.5 5
Recommended fuse	A	10	10	16	20	20

Model	Unit	FDMQN50CXV1	FDMQN60CXV1	FDMQN71CXV1	FDMQN100CXV1	FDMQN100CXV1
		RYN50CXY1	RYN60CXY1	RQ71CXY1	RQ90DXV1	RQ100DXV1
Power supply cable size Number of wire	mm^2	1.5 5	1.5 5	2.5 5	4.0 3	4.0 3
Interconnection cable size Number of wire	mm^2	1.0 6	1.0 6	1.0 6	2.5 4 & 3	2.5 4 & 3
Recommended fuse	A	6	6	6	25	25

Model	Unit	FDMQN100CXV1	FDMQN100CXV1	FDMQN125CXV1	FDMQN140CXV1
		RQ90DXY1	RQ100DXY1	RQ125DXY1	RQ140DXV1
Power supply cable size Number of wire	mm^2	1.5 5	1.5 5	2.5 5	2.5 5
Interconnection cable size Number of wire	mm^2	1.5 4 & 3	1.5 4 & 3	1.5 4 & 3	1.5 4 & 3
Recommended fuse	A	10	10	16	16

(4) Refrigerant Piping

- When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the font compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:

Model	Indoor	FDMRN25/35CXV1 FDMQN25/35CXV1	FDMRN50/60CXV1 FDMQN50/60CXV1	FDMRN71CXV1 FDMQN71CXV1	
	Outdoor	R(Y)N25/35CXV1	R(Y)N50/60CXV1 R(Y)N50/60CXY1	RR71CXV1 RQ71CXV1	RR71CXY1 RQ71CXY1
Max. Length, m		12	15	15	15
Max. Elevation, m		5	8	8	8

Model	Indoor	FDMRN100CXV1 FDMQN100CXV1		FDMRN125CXV1 FDMQN125CXV1	FDMRN140CXV1 FDMQN140CXV1
	Outdoor	RR90/100DXV1 RQ90/100DXV1	RR90/100DXY1 RQ90/100DXY1	RR125DXY1 RQ125DXY1	RR140DXY1 RQ140DXY1
Max. Length, m		45	45	45	35
Max. Elevation, m		25	25	25	15

Piping Sizes (Flare connection type)

Piping sizes are as follows:

R410A

Model	R(Y)N25CXV1	R(Y)N35/50CXV1 R(Y)N50CXY1	R(Y)N60CXV1 R(Y)N60CXY1	RR71CXV1 RQ71CXV1
Liquid, mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8
Suction, mm / in	9.52 / 3/8	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8

Model	RR71CXY1 RQ71CXY1	RR90/100DXV1 RQ90/100DXV1	RR90/100/125DXY1 RQ90/100/125DXY1	RR140DXY1 RQ140DXY1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Suction, mm / in	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8	19.05 / 3/4

(5) Additional Charge

- The refrigerant charge has already charged into the outdoor unit. For the piping length of 7.5m, additional refrigerant charge after vacuuming is not necessary.
- When the piping length is more than 7.5m, please use the table below (unit in gram).

R410A – Cooling Only

Indoor	**FDMRN25CXV1**	**FDMRN35CXV1**	**FDMRN50CXV1**	**FDMRN60CXV1**	**FDMRN71CXV1**
Outdoor	**RN25CXV1**	**RN35CXV1**	**RN50CXV1** **RN50CXY1**	**RN60CXV1** **RN60CXY1**	**RR71CXV1** **RR71CXY1**
Add. Charge, g/m	13	13	15	15	33

Indoor	**FDMRN100CXV1**		**FDMRN125CXV1**	**FDMRN140CXV1**
Outdoor	**RR90DXV1** **RR90DXY1**	**RR100DXV1** **RR100DXY1**	**RR125DXY1**	**RR140DXY1**
Add. Charge, g/m	23	26	23	32

R410A – Heatpump

Indoor	**FDMQN25CXV1**	**FDMQN35CXV1**	**FDMQN50CXV1**	**FDMQN60CXV1**	**FDMQN71CXV1**
Outdoor	**RYN25CXV1**	**RYN35CXV1**	**RYN50CXV1** **RYN50CXY1**	**RYN60CXV1** **RYN60CXY1**	**RQ71CXV1** **RQ71CXY1**
Add. Charge, g/m	20	20	20	20	46

Indoor	**FDMQN100CXV1**		**FDMQN125CXV1**	**FDMQN140CXV1**
Outdoor	**RQ90DXV1** **RQ90DXY1**	**RQ100DXV1** **RQ100DXY1**	**RQ125DXY1**	**RQ140DXY1**
Add. Charge, g/m	33	37	33	46

The additional refrigerant charge amount recommended is a guideline for longer piping application. The actual charge required may be different from the guideline due to different application and variation in site conditions.

(6) Special Precautions When Dealing With R410A Unit

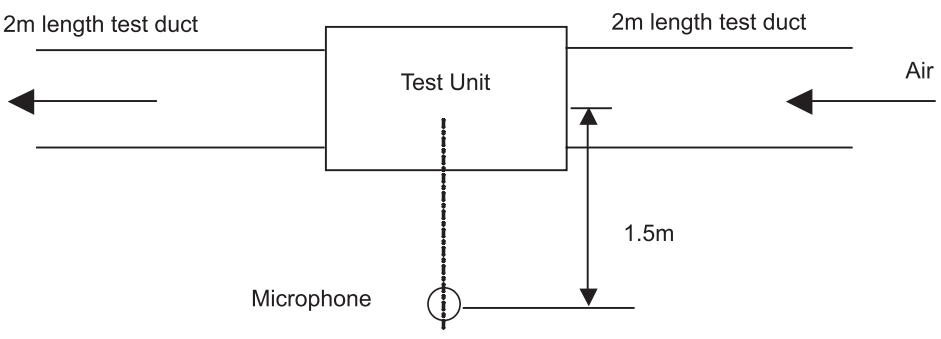
R410A is a new HFC refrigerant which does not damage the ozone layer. The working pressure of this new refrigerant is 1.6 times higher than conventional refrigerant (R22), thus proper installation / servicing is essential.

- Never use refrigerant other than R410A in an air conditioner which is designed to operate with R410A.
- POE or PVE oil is used as lubricant for R410A compressor, which is different from the mineral oil used for R22 compressor. During installation or servicing, extra precaution must be taken not to expose the R410A system too long to moist air. Residual POE or PVE oil in the piping and components can absorb moisture from the air.
- To prevent mischarging, the diameter of the service port on the flare valve is different from that of R22.
- Use tools and materials exclusively for refrigerant R410A. Tools exclusively for R410A are manifold valve, charging hose, pressure gauge, gas leak detector, flare tools, torque wrench, vacuum pump and refrigerant cylinder.
- As an R410A air conditioner incurs higher pressure than R22 units, it is essential to choose the copper pipes correctly. Never use copper pipes thinner than 0.8mm even though they are available in the market.
- If the refrigerant gas leakage occurs during installation / servicing, be sure to ventilate fully. If the refrigerant gas comes into contact with fire, a poisonous gas may occur.
- When installing or removing an air conditioner, do not allow air or moisture to remain in the refrigerant cycle.

Sound Data

Sound Pressure Level

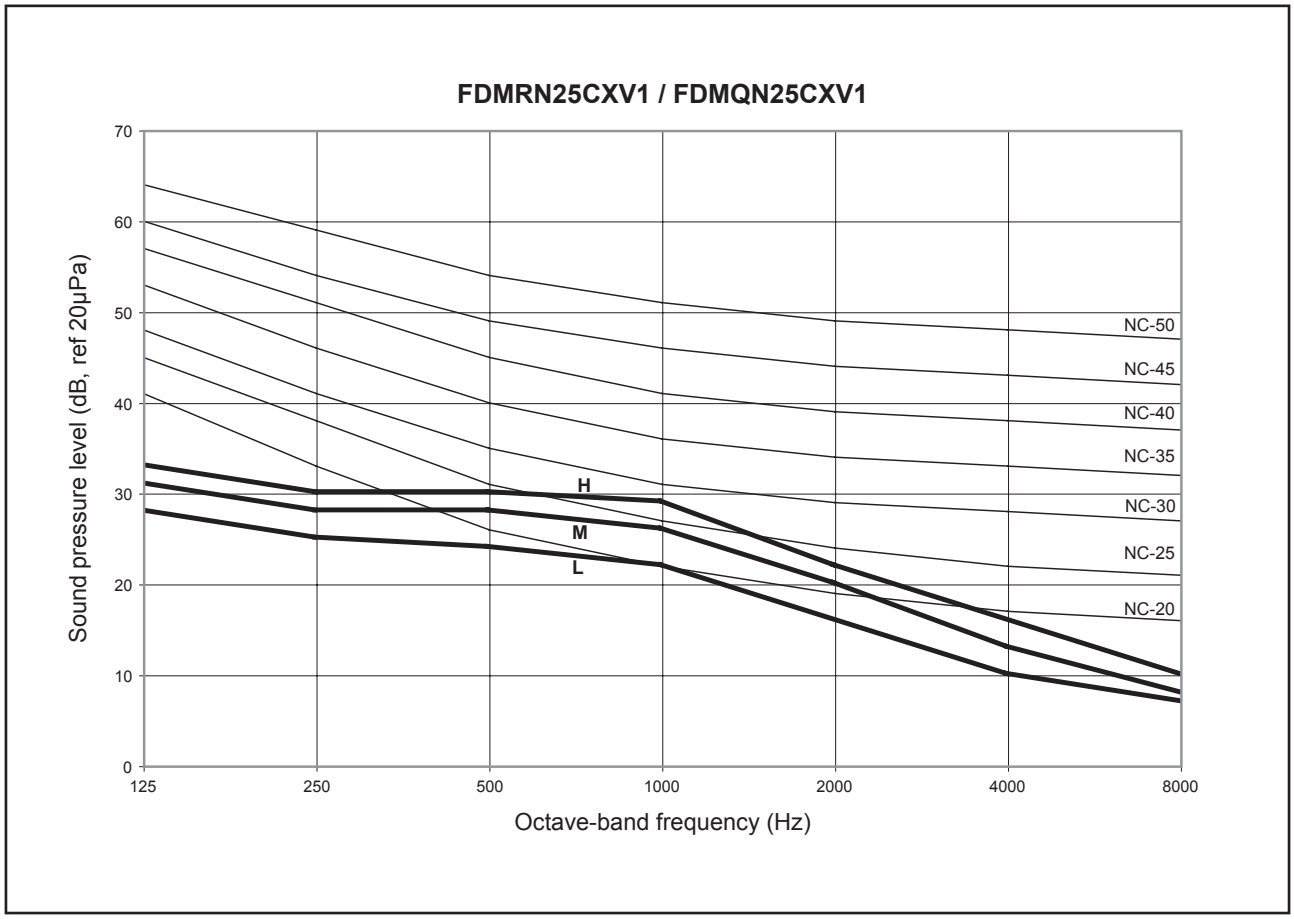
Model	Speed	1/1 Octave Sound Pressure (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMRN25CXV1 FDMQN25CXV1	High	33	30	30	29	22	16	10	33	27
	Med	31	28	28	26	20	13	8	30	24
	Low	28	25	24	22	16	10	7	26	20
FDMRN35CXV1 FDMQN35CXV1	High	39	36	34	32	27	18	11	37	31
	Med	35	34	32	29	23	14	9	34	27
	Low	32	29	28	25	17	11	8	29	23
FDMRN50CXV1 FDMQN50CXV1	High	42	39	36	34	28	22	17	38	33
	Med	41	37	34	31	26	20	15	36	30
	Low	40	36	32	29	23	18	13	34	27
FDMRN60CXV1 FDMQN60CXV1	High	42	41	37	34	31	29	23	40	33
	Med	41	40	36	33	29	28	22	39	32
	Low	36	35	33	31	26	27	21	36	30
FDMRN71CXV1 FDMQN71CXV1	S. High	48	45	42	38	34	29	26	44	37
	High	45	42	39	35	31	26	22	41	34
	Med	42	38	37	32	28	22	17	38	32
	Low	36	33	33	27	23	16	11	34	27
FDMRN100CXV1 FDMQN100CXV1	S. High	60	50	50	45	42	38	32	52	46
	High	55	47	47	43	39	35	29	49	43
	Med	54	45	46	41	37	32	26	47	41
	Low	51	42	44	39	34	29	23	45	39
FDMRN125CXV1 FDMQN125CXV1	S. High	53	46	50	51	45	38	30	54	50
	High	52	45	49	50	43	36	28	53	49
	Med	51	43	49	49	42	34	26	52	48
	Low	48	42	48	47	39	32	23	51	46
FDMRN140CXV1 FDMQN140CXV1	S. High	56	50	51	48	47	41	38	54	48
	High	54	48	50	47	44	38	35	52	46
	Med	55	45	48	45	41	35	31	50	44
	Low	50	43	45	41	37	31	27	46	40

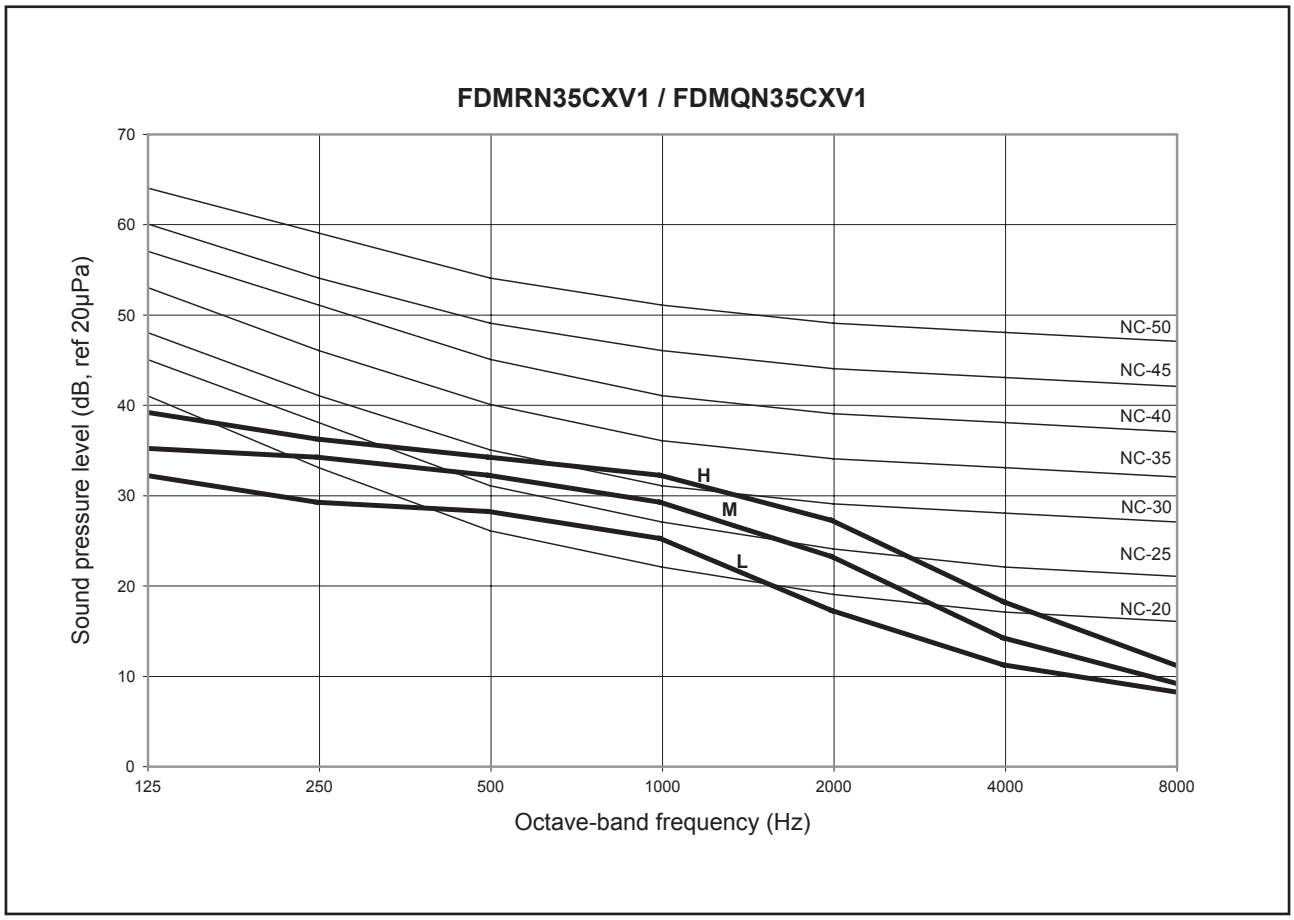
Model	Measuring location
FDMRN25CXV1 FDMRN35CXV1 FDMRN50CXV1 FDMRN60CXV1 FDMRN71CXV1 FDMRN100CXV1 FDMRN125CXV1 FDMRN140CXV1 FDMQN25CXV1 FDMQN35CXV1 FDMQN50CXV1 FDMQN60CXV1 FDMQN71CXV1 FDMQN100CXV1 FDMQN125CXV1 FDMQN140CXV1	

Sound Power Level

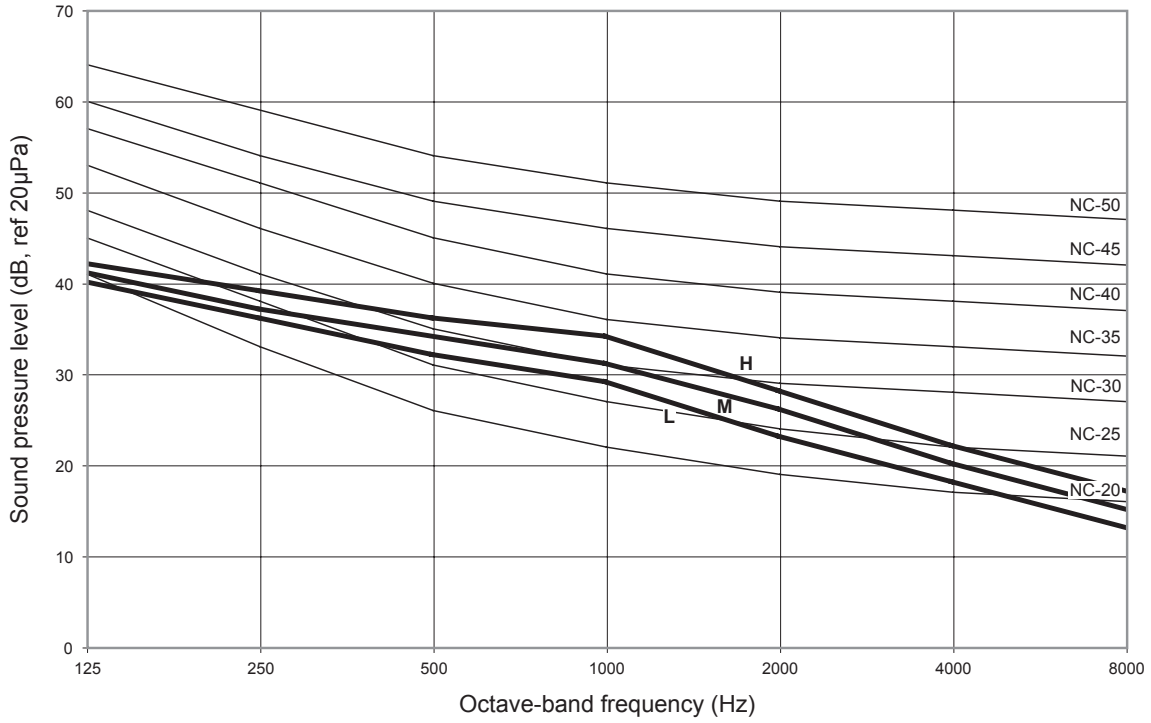
Model	Ext. Static (mmAq)	Speed	1/1 Octave Sound Power (dB, ref 1pW)							Overall (dBA)
			125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
FDMRN25CXV1 FDMQN25CXV1	5	High	57	54	52	52	51	46	44	57
	4	Med	54	51	50	49	48	43	39	54
	3	Low	51	48	47	46	44	39	35	51
FDMRN35CXV1 FDMQN35CXV1	5	High	60	58	57	56	54	48	44	61
	4	Med	56	55	54	53	50	44	40	58
	3	Low	52	50	49	48	44	37	34	52
FDMRN50CXV1 FDMQN50CXV1	6.5	High	63	62	61	61	59	55	51	65
	6	Med	61	61	59	60	58	53	49	64
	3.5	Low	57	56	56	56	53	48	44	60
FDMRN60CXV1 FDMQN60CXV1	5.5	High	63	52	61	62	59	56	53	66
	4	Med	61	60	59	60	57	53	50	64
	3	Low	58	57	56	57	54	49	47	61
FDMRN71CXV1 FDMQN71CXV1	10	S. High	62	65	61	63	60	57	56	67
	7	High	59	61	58	61	57	54	52	64
	5	Med	56	57	55	57	54	50	48	61
	3	Low	52	53	51	53	50	45	41	57
FDMRN100CXV1 FDMQN100CXV1	12	S. High	72	74	72	72	69	66	64	77
	8.6	High	69	72	70	70	66	63	61	74
	6.4	Med	66	69	67	68	63	60	57	71
	4.5	Low	63	66	64	65	60	56	54	68
FDMRN125CXV1 FDMQN125CXV1	18	S. High	70	71	72	74	71	68	67	78
	16	High	67	69	71	72	69	66	64	76
	14	Med	66	66	69	69	66	63	61	73
	11	Low	63	64	66	67	62	60	57	70
FDMRN140CXV1 FDMQN140CXV1	18	S. High	70	71	73	75	73	70	68	79
	16	High	69	70	72	74	71	69	68	78
	14	Med	69	68	70	71	67	65	63	75
	10	Low	64	65	67	67	63	61	59	71

NC Curve

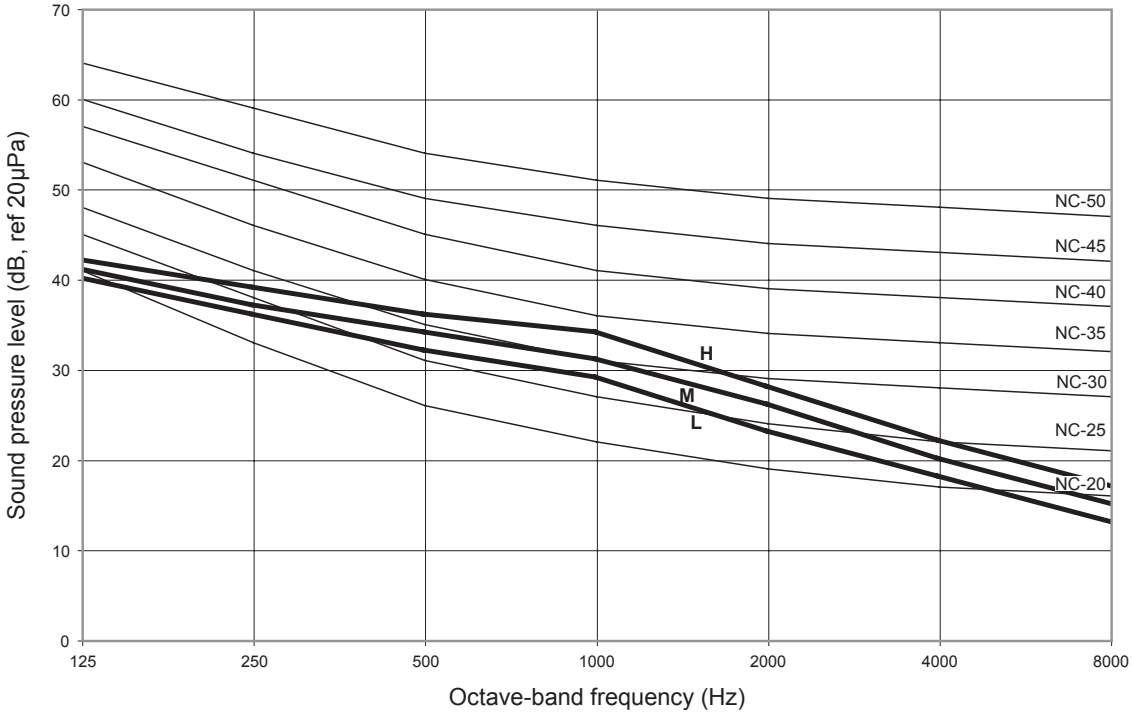

FDMRN25CXV1 / FDMQN25CXV1
Sound pressure level (dB, ref 20µPa)
70
60
50
40
30
20
10
0
125
250
500
1000
2000
4000
8000
Octave-band frequency (Hz)
NC-50
NC-45
NC-40
NC-35
NC-30
NC-25
NC-20
H
M
L


FDMRN35CXV1 / FDMQN35CXV1
Sound pressure level (dB, ref 20µPa)
70
60
50
40
30
20
10
0
125
250
500
1000
2000
4000
8000
Octave-band frequency (Hz)
NC-50
NC-45
NC-40
NC-35
NC-30
NC-25
NC-20
H
M
L

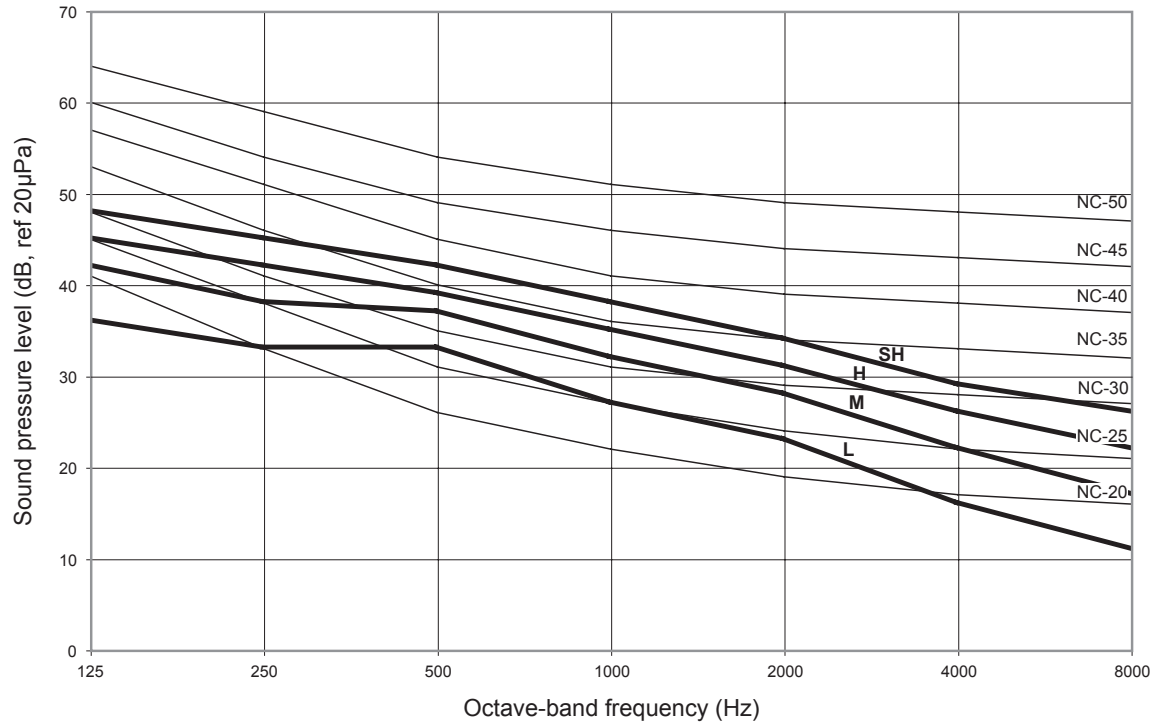
FDMRN50CXV1 / FDMQN50CXV1



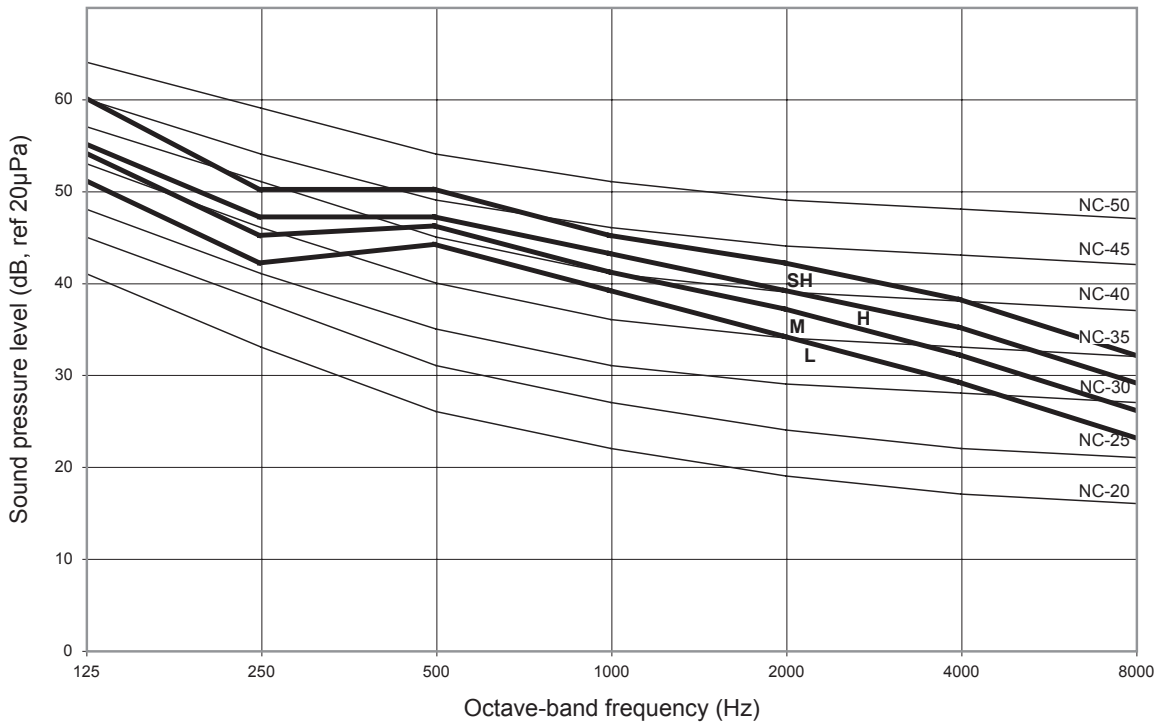
FDMRN60CXV1 / FDMQN60CXV1



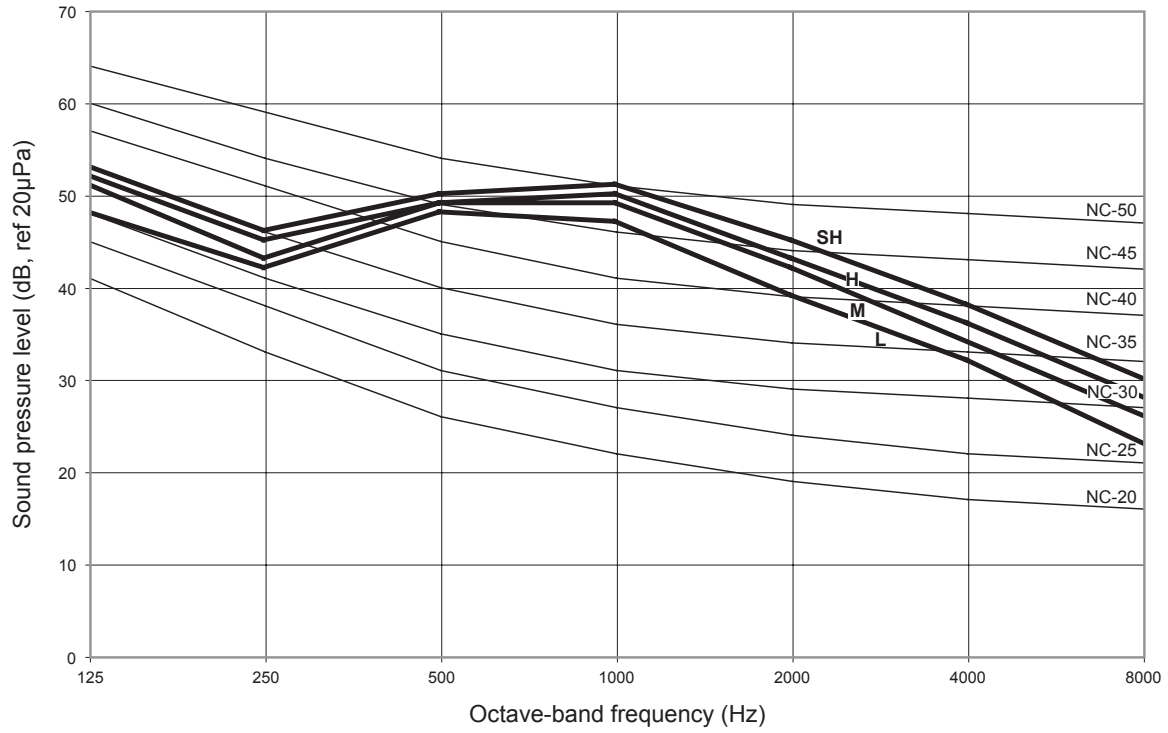
FDMRN71CXV1 / FDMQN71CXV1



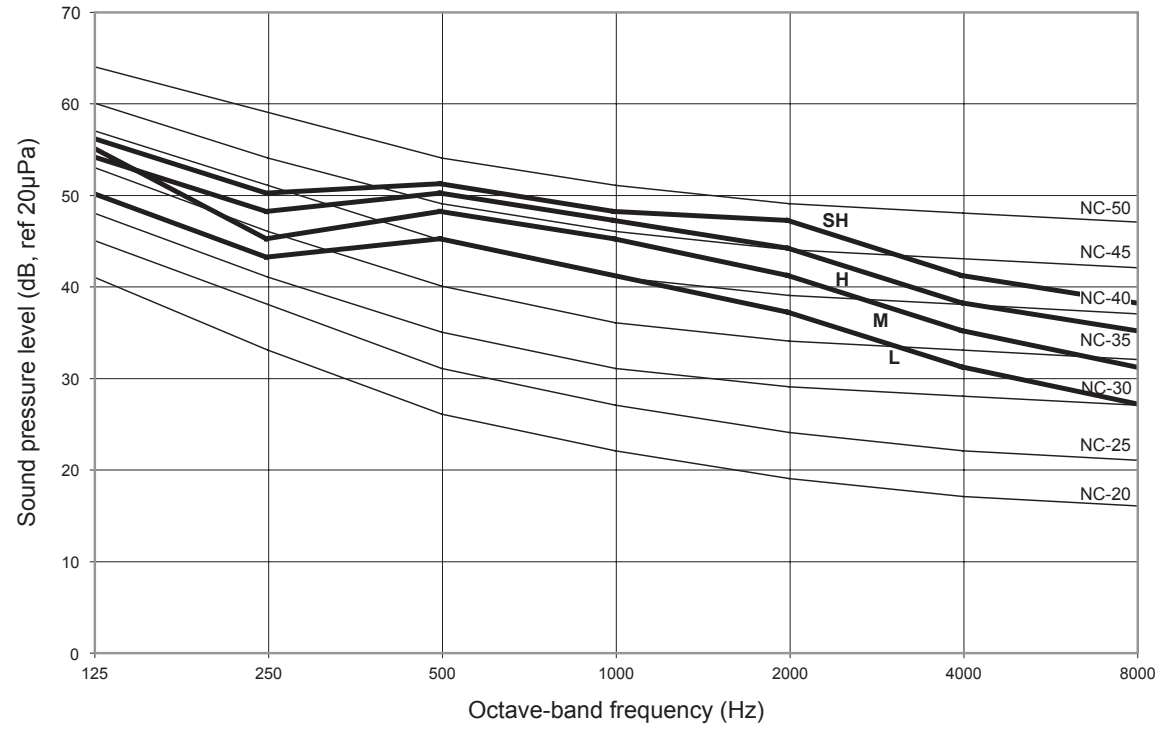
FDMRN100CXV1 / FDMQN100CXV1



FDMRN125CXV1 / FDMQN125CXV1

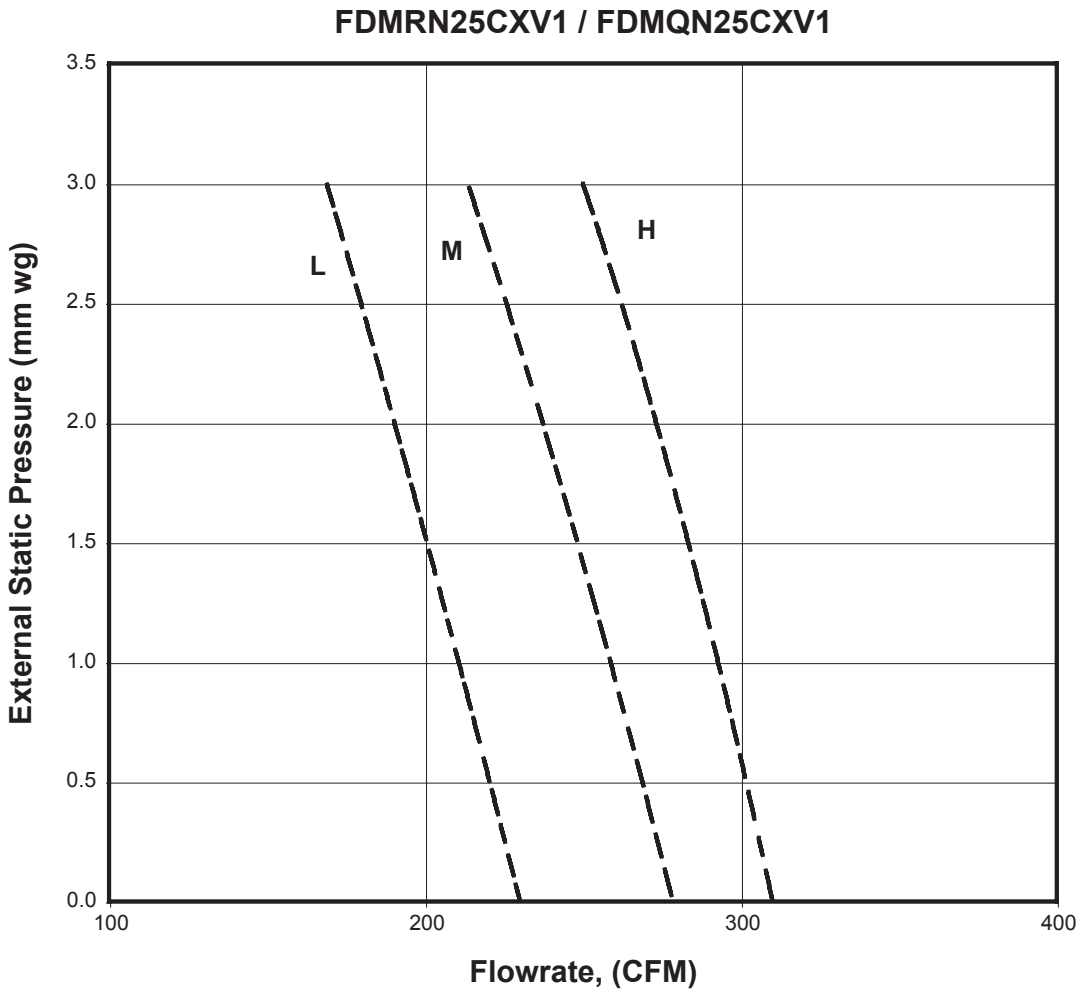


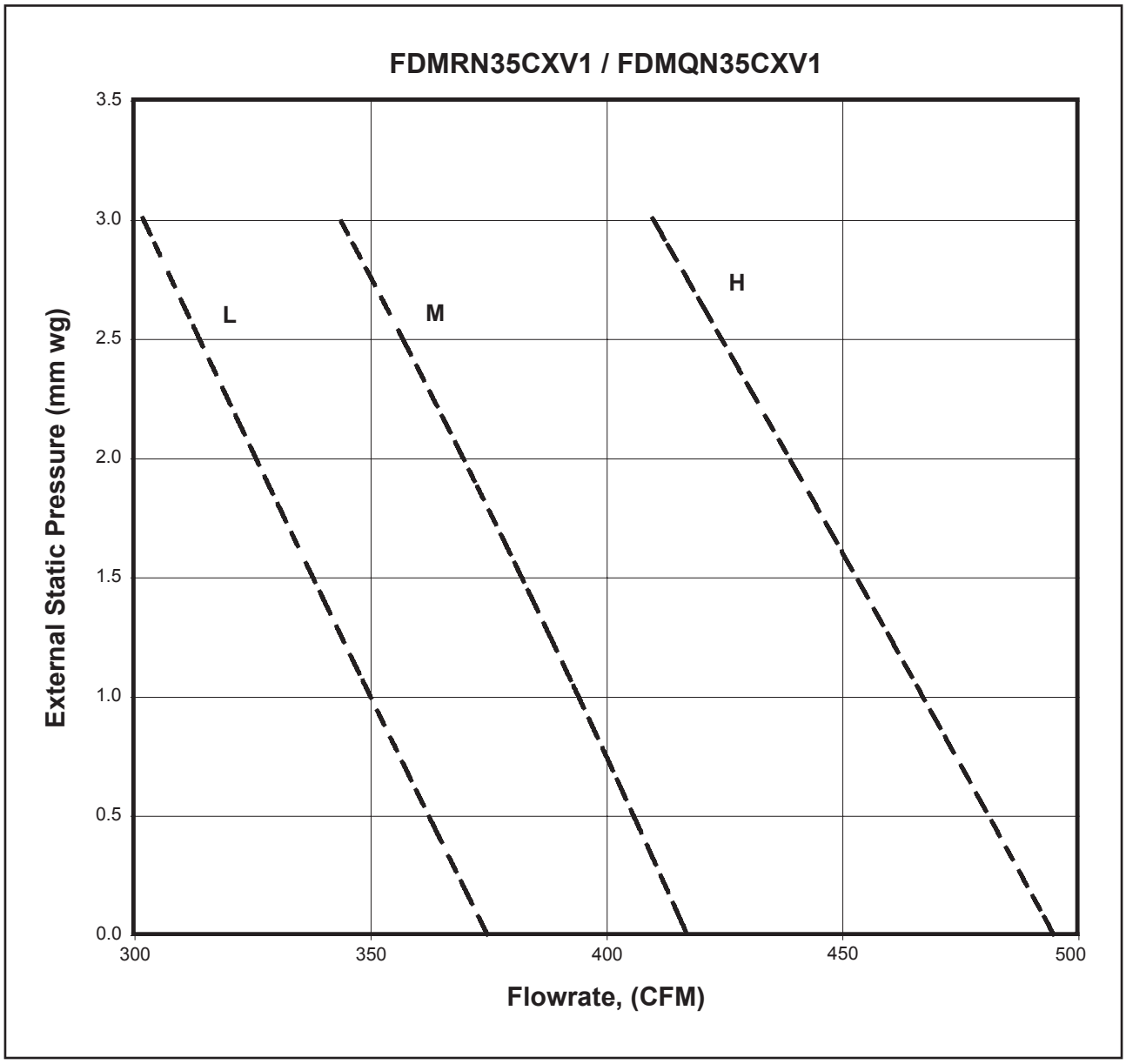
FDMRN140CXV1 / FDMQN140CXV1

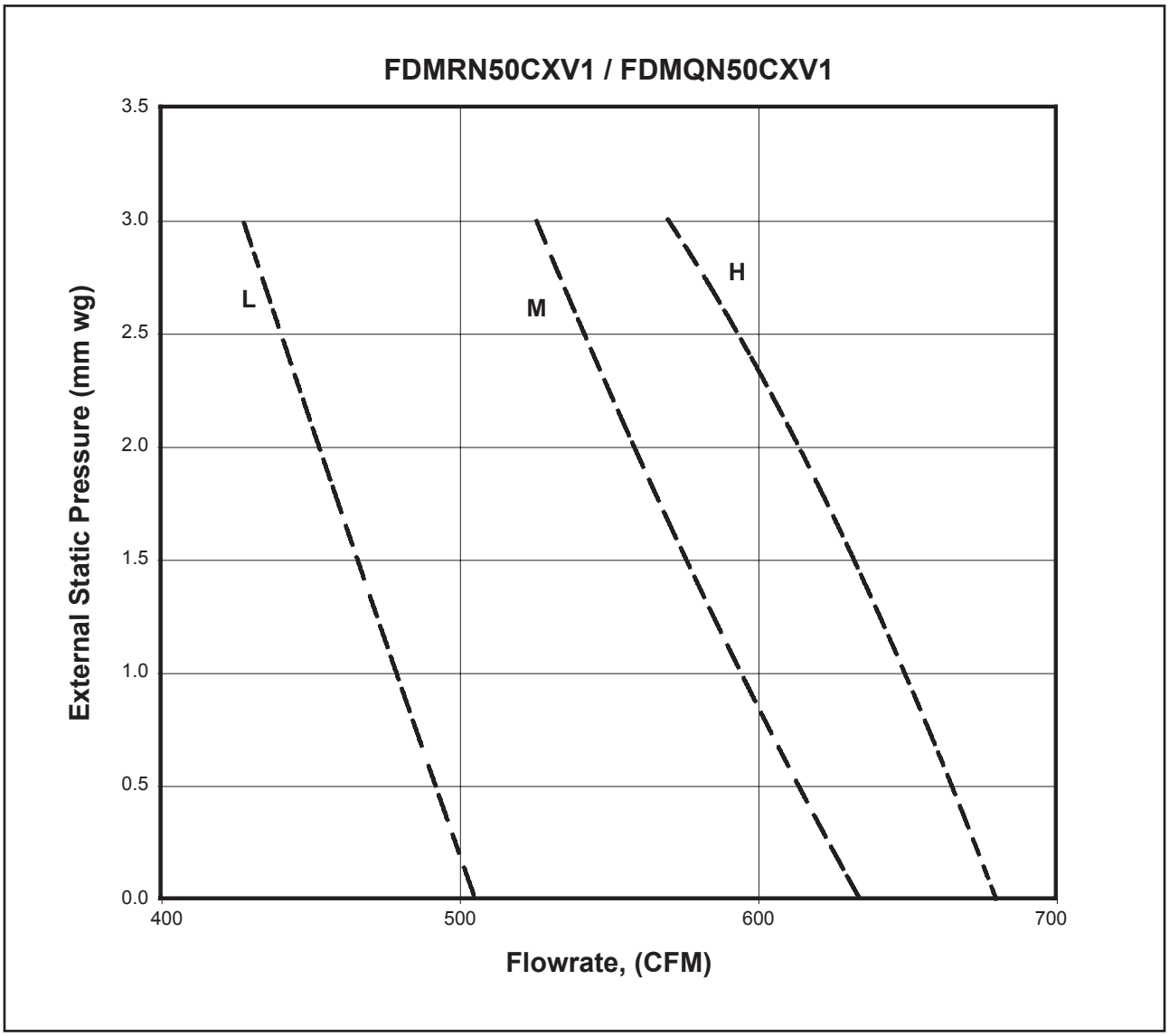


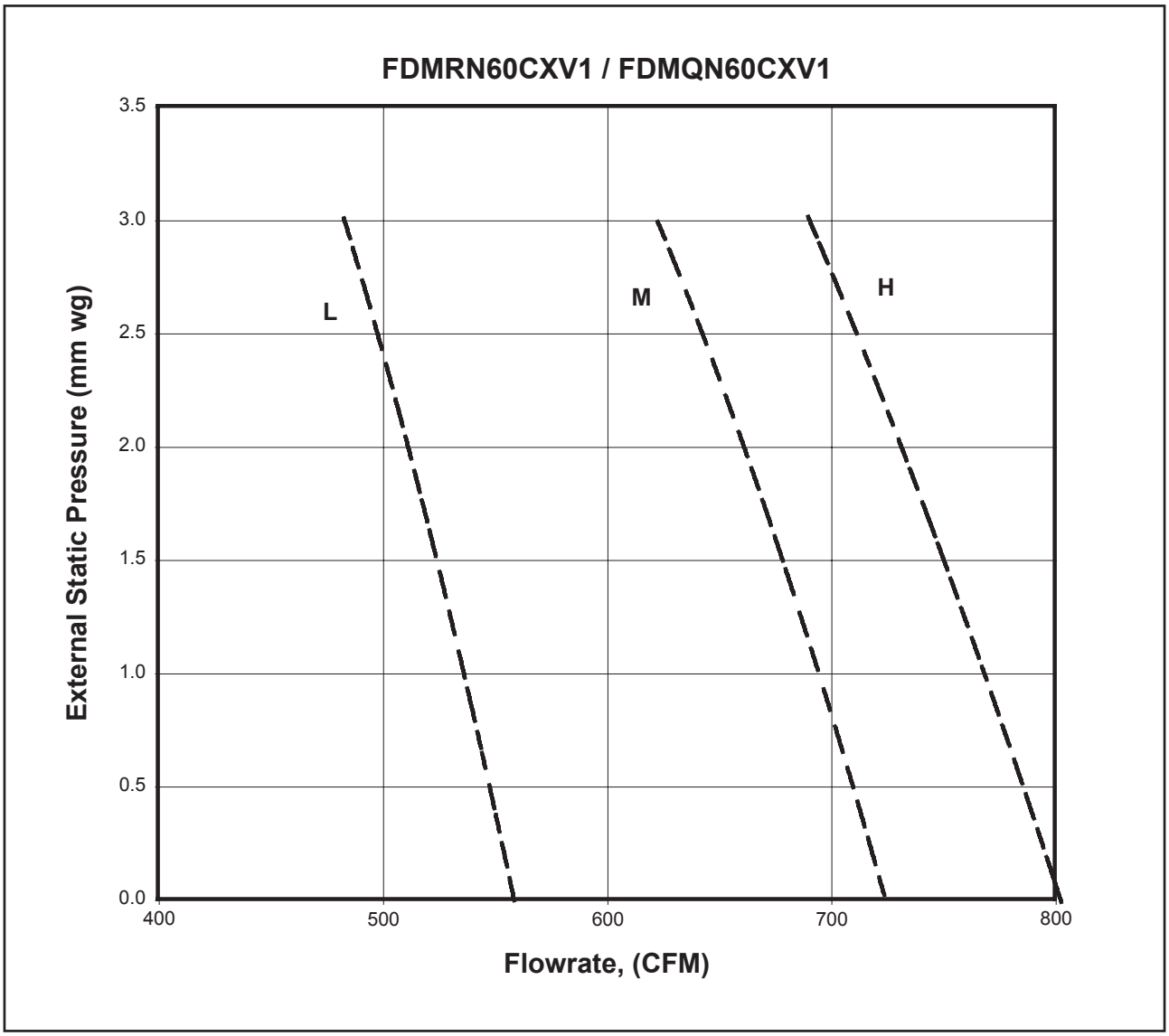
Selection Process

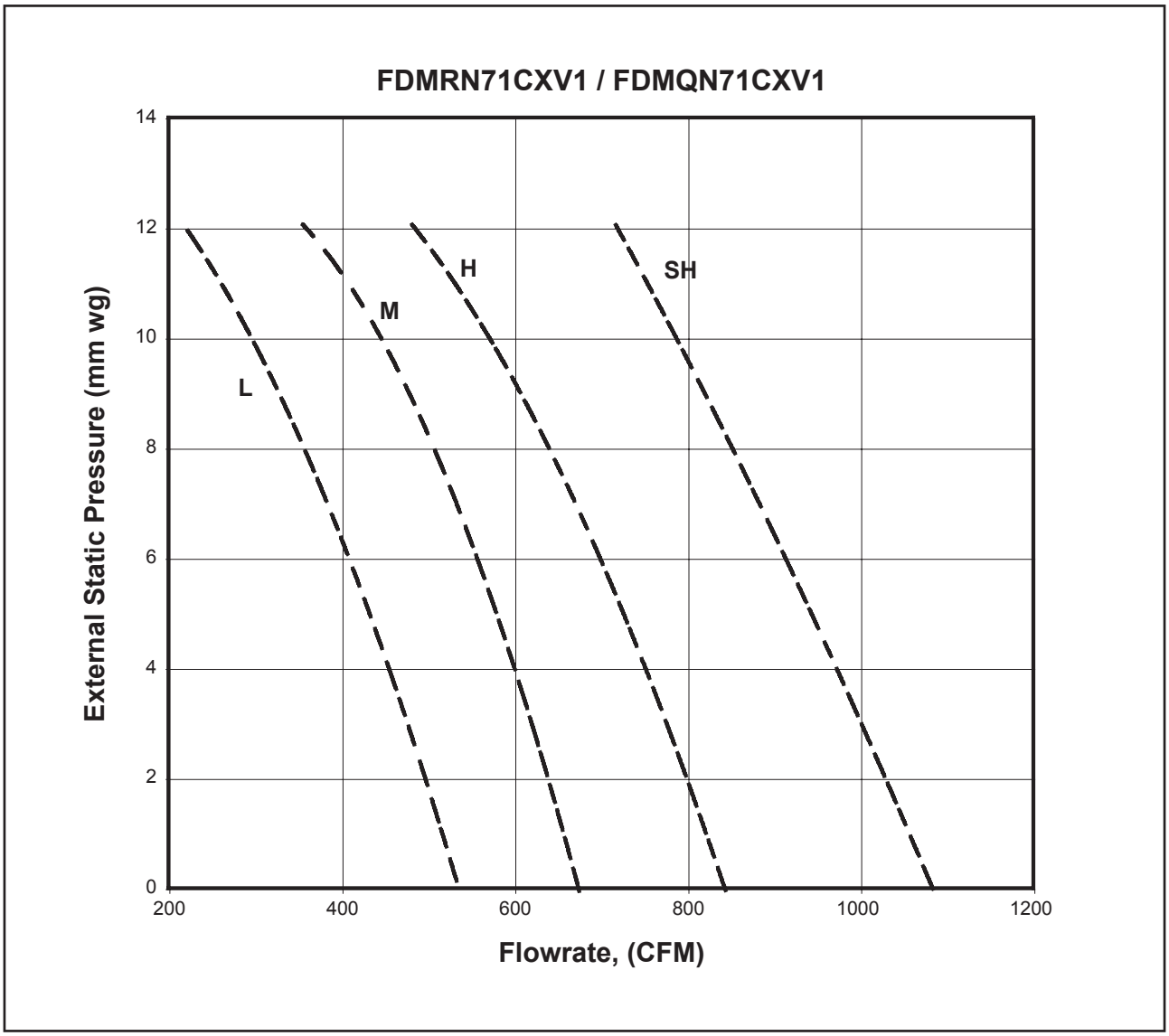
Blower Performance Curve

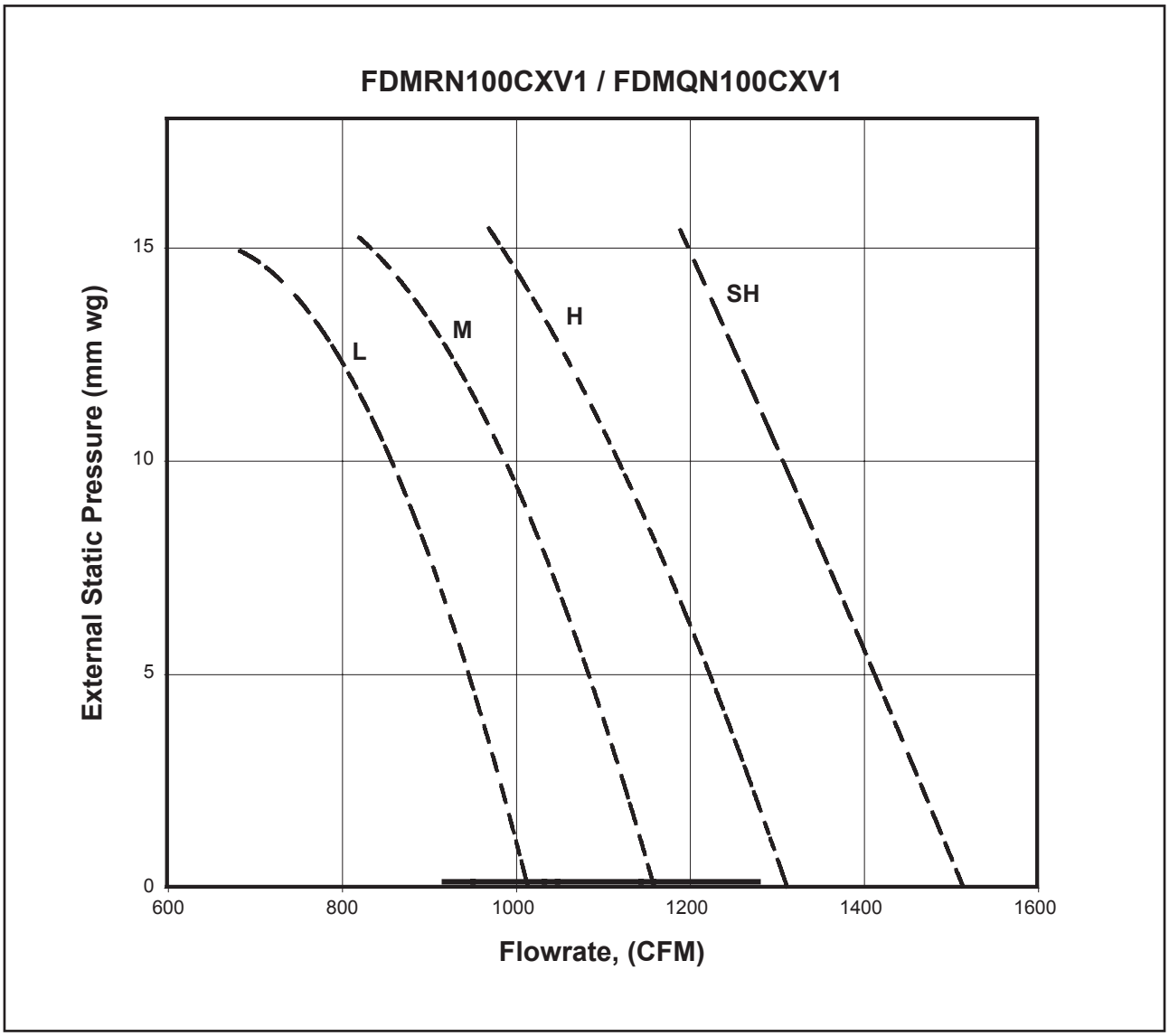


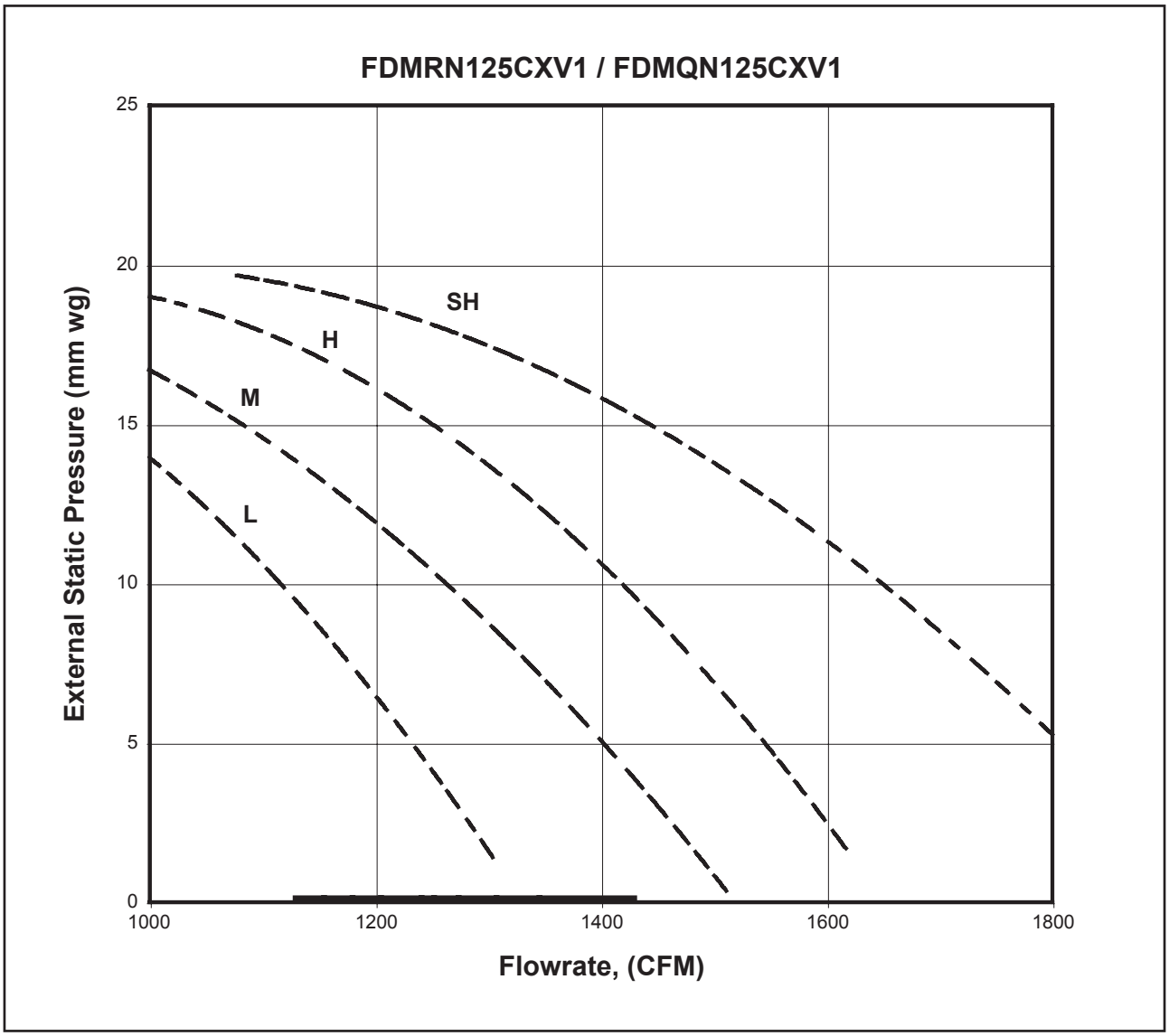

FDMRN35CXV1 / FDMQN35CXV1
External Static Pressure (mm wg)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
L
M
H
300
350
400
450
500
Flowrate, (CFM)

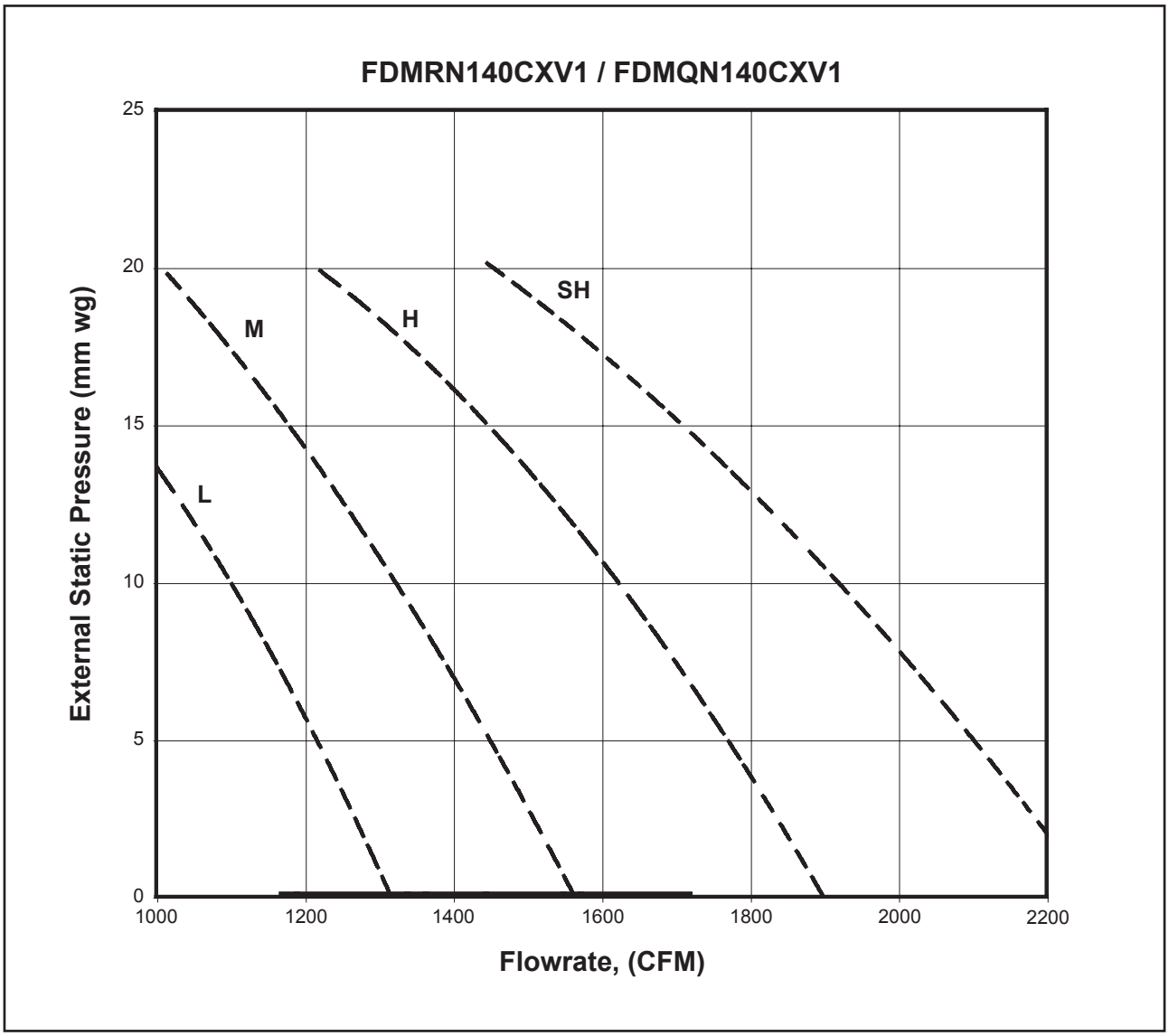

FDMRN50CXV1 / FDMQN50CXV1
External Static Pressure (mm wg)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
L
M
H
400
500
600
700
Flowrate, (CFM)


FDMRN60CXV1 / FDMQN60CXV1
External Static Pressure (mm wg)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
400
500
600
700
800
Flowrate, (CFM)
L
M
H


FDMRN71CXV1 / FDMQN71CXV1
External Static Pressure (mm wg)
14
12
10
8
6
4
2
0
200
400
600
800
1000
1200
Flowrate, (CFM)
L
M
H
SH


FDMRN100CXV1 / FDMQN100CXV1
External Static Pressure (mm wg)
15
10
5
0
600
800
1000
1200
1400
1600
Flowrate, (CFM)
L
M
H
SH


FDMRN125CXV1 / FDMQN125CXV1
External Static Pressure (mm wg)
25
20
15
10
5
0
SH
H
M
L
1000
1200
1400
1600
1800
Flowrate, (CFM)


FDMRN140CXV1 / FDMQN140CXV1
External Static Pressure (mm wg)
25
20
15
10
5
0
SH
H
M
L
1000
1200
1400
1600
1800
2000
2200
Flowrate, (CFM)

Engineering & Physical Data

Engineering Data – R410A MODEL

MODEL	INDOOR UNIT			FDMRN25CXV1	FDMRN35CXV1	FDMRN50CXV1	FDMRN50CXV1
	OUTDOOR UNIT			RN25CXV1	RN35CXV1	RN50CXV1	RN50CXY1
NOMINAL COOLING CAPACITY			Btu/h	9500	12500	18000	18000
			W	2780	3660	5280	5280
NOMINAL TOTAL INPUT POWER (COOLING)			W	961	1297	1757	1791
NOMINAL RUNNING CURRENT (COOLING)			A	4.30	5.70	7.80	3.40
EER			W/W	2.96	2.91	3.13	3.04
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			kg	0.73	0.83	1.38	1.38
MODEL	INDOOR UNIT			FDMQN25CXV1	FDMQN35CXV1	FDMQN50CXV1	FDMQN50CXV1
	OUTDOOR UNIT			RYN25CXV1	RYN35CXV1	RYN50CXV1	RYN50CXY1
NOMINAL COOLING CAPACITY			Btu/h	9500	12500	18000	18000
			W	2780	3660	5280	5280
NOMINAL HEATING CAPACITY			Btu/h	9500	12000	18500	18500
			W	2780	3520	5420	5420
NOMINAL TOTAL INPUT POWER (COOLING)			W	961	1297	1757	1791
NOMINAL TOTAL INPUT POWER (HEATING)			W	813	1147	1597	1568
NOMINAL RUNNING CURRENT (COOLING)			A	4.30	5.70	7.80	3.40
NOMINAL RUNNING CURRENT (HEATING)			A	3.70	5.20	7.40	2.82
EER			W/W	2.96	2.91	3.13	3.04
COP			W/W	3.52	3.18	3.55	3.59
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			kg	0.73	0.83	1.38	1.38
POWER SOURCE			V/Ph/Hz	220-240/1/50			380-415/3/50
REFRIGERANT TYPE				R410A			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED			
		OPERATION		SLM WIRED HANDSET			
	AIR FLOW	HIGH	l/s / CFM	118/250	193/410	269/570	269/570
		MEDIUM	l/s / CFM	111/235	175/370	263/558	263/558
		LOW	l/s / CFM	99/210	118/250	227/480	227/480
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	29/20/10 (0.11/0.08/0.04)	29/20/10 (0.11/0.08/0.04)	29/20/10 (0.11/0.08/0.04)	29/20/10 (0.11/0.08/0.04)
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33/30/26	37/34/29	38/36/34	38/36/34
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	261 x 765 x 411	261 x 905 x 411	261 x 1065 x 411	261 x 1065 x 411
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	376 x 951 x 541	376 x 1091 x 541	376 x 1251 x 541	376 x 1251 x 541
	UNIT WEIGHT		kg	18	22	24	24
	CONDENSATE DRAIN SIZE		mm	19.05	19.05	19.05	19.05
	FAN	TYPE		CENTRIFUGAL			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		N/A	N/A	N/A	N/A
		INSULATION GRADE		CLASS E	CLASS B	CLASS B	CLASS B
		RATED INPUT POWER	W	61	107	133	133
		RATED RUNNING CURRENT	A	0.27	0.48	0.61	0.61
		MOTOR OUTPUT	W	30	50	80	80
		POLES		4	4	4	4
	COIL	TUBE MATERIAL		COPPER			
		TUBE DIAMETER	mm	7	7	7	7
		FIN MATERIAL		ALUMINIUM			
		FIN FACE AREA	m^2	0.115	0.143	0.176	0.176
		FIN ROW		3	3	3	3
	AIR QUALITY	FILTER TYPE		WASHABLE SARANET FILTER			
		FILTER QUANTITY	pc	1	1	1	1
	CASING		COLOUR	WITHOUT POWDER PAINT			
OUTDOOR UNIT	AIR FLOW		l/s / CFM	396/840	453/960	614/1300	614/1300
	SOUND PRESSURE LEVEL		dBA	46	49	52	52
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	540 x 700 x 250	540 x 700 x 250	651 x 855 x 328	651 x 855 x 328
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	620 x 810 x 330	620 x 810 x 330	710 x 990 x 415	710 x 990 x 415
	UNIT WEIGHT		kg	28	30	47	47
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE LIQUID	mm	6.35	6.35	6.35	6.35
		SIZE GAS	mm	9.52	12.70	12.70	12.70
	FAN	TYPE		PROPELLER			
		DRIVE		DIRECT			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP22	IP22	IP23	IP23
		INSULATION GRADE		CLASS B	CLASS B	CLASS F	CLASS F
		RATED INPUT POWER	W	57	70	80	80
		RATED RUNNING CURRENT	A	0.25	0.31	0.36	0.36
		MOTOR OUTPUT	W	24	35	42	42
		POLES		6	6	6	6
	COMPRESSOR	TYPE		ROTARY			
		OIL TYPE		RB68A or FREOL ALPHA68M			
		OIL AMOUNT	cm^3	350	430	670	670
		RATED INPUT POWER (COOLING)	W	843	1120	1544	1578
		RATED INPUT POWER (HEATING)	W	695	970	1384	1355
		RATED RUNNING CURRENT (COOLING)	A	3.78	4.91	6.83	3.08
		RATED RUNNING CURRENT (HEATING)	A	3.18	4.41	6.43	2.50
		LOCKED ROTOR AMP.	A	19	24	26	19
	COIL	TUBE MATERIAL		COPPER			
		TUBE DIAMETER	mm	7	7	7	7
		FIN MATERIAL		ALUMINIUM			
		FIN FACE AREA	m^2	0.360	0.360	0.510	0.510
		FIN ROW		1	1	2	2
	CASING		COLOUR	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - R410A MODEL

MODEL	**INDOOR UNIT**			**FDMRN60CXV1**	**FDMRN60CXV1**	**FDMRN71CXV1**	**FDMRN71CXV1**
	OUTDOOR UNIT			**RN60CXV1**	**RN60CXY1**	**RR71CXV1**	**RR71CXY1**
NOMINAL COOLING CAPACITY			**Btu/h**	21000	22860	26000	27000
			W	6155	6700	7620	7910
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	2003	2274	2892	2876
NOMINAL RUNNING CURRENT (COOLING)			**A**	8.90	4.20	12.80	4.90
EER			**W/W**	3.15	3.03	2.73	2.88
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			**kg**	1.54	1.46	2.03	1.80
MODEL	**INDOOR UNIT**			**FDMQN60CXV1**	**FDMQN60CXV1**	**FDMQN71CXV1**	**FDMQN71CXV1**
	OUTDOOR UNIT			**RYN60CXV1**	**RYN60CXY1**	**RQ71CXV1**	**RQ71CXY1**
NOMINAL COOLING CAPACITY			**Btu/h**	21000	22860	26000	27000
			W	6155	6700	7620	7910
NOMINAL HEATING CAPACITY			**Btu/h**	22000	23200	26000	28000
			W	6450	6800	7620	8210
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	2003	2274	2892	2876
NOMINAL TOTAL INPUT POWER (HEATING)			**W**	1953	2153	2429	2487
NOMINAL RUNNING CURRENT (COOLING)			**A**	8.90	4.20	12.80	4.90
NOMINAL RUNNING CURRENT (HEATING)			**A**	8.80	3.99	11.20	4.50
EER			**W/W**	3.15	3.03	2.73	2.88
COP			**W/W**	3.39	3.23	3.27	3.43
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			**kg**	1.54	1.46	2.03	1.80
POWER SOURCE			**V/Ph/Hz**	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
REFRIGERANT TYPE				R410A			
INDOOR UNIT	**CONTROL**	**AIR DISCHARGE**		DUCTED			
		OPERATION		SLM WIRED HANDSET			
	AIR FLOW	**SUPER HIGH**	**l/s / CFM**	-	-	401/850	401/850
		HIGH	**l/s / CFM**	326/690	326/690	382/810	382/810
		MEDIUM	**l/s / CFM**	312/660	312/660	363/770	363/770
		LOW	**l/s / CFM**	253/535	253/535	335/710	335/710
	EXTERNAL STATIC PRESSURE (SH/H/M/L)		**Pa (in.wg.)**	-/29/20/10 (-/0.11/0.08/0.04)	-/29/20/10 (-/0.11/0.08/0.04)	98/78/68/59 (0.39/0.31/0.27/0.24)	98/78/68/59 (0.39/0.31/0.27/0.24)
	SOUND PRESSURE LEVEL (SH/H/M/L)		**dBA**	40/39/36	40/39/36	44/41/38/34	44/41/38/34
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	261 x 1200 x 411	261 x 1200 x 411	285 x 932 x 600	285 x 932 x 600
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	376 x 1386 x 541	376 x 1386 x 541	343 x 1138 x 690	343 x 1138 x 690
	UNIT WEIGHT		**kg**	26	26	40	40
	CONDENSATE DRAIN SIZE		**mm**	19.05	19.05	19.05	19.05
	FAN	**TYPE**		CENTRIFUGAL			
		DRIVE		DIRECT			
	FAN MOTOR	**TYPE**		INDUCTION			
		INDEX OF PROTECTION (IP)		N/A	N/A	IP20	IP20
		INSULATION GRADE		CLASS E	CLASS E	CLASS B	CLASS B
		RATED INPUT POWER	**W**	164	164	269	269
		RATED RUNNING CURRENT	**A**	0.74	0.74	1.28	1.28
		MOTOR OUTPUT	**W**	100	100	320	320
		POLES		4	4	4	4
	COIL	**TUBE**	**MATERIAL**	COPPER			
			DIAMETER	**mm**	7	7	7	7
		FIN	**MATERIAL**	ALUMINIUM			
			FACE AREA	**m²**	0.203	0.203	0.240	0.240
			ROW		3	3	3	3
	AIR QUALITY	**FILTER**	**TYPE**	WASHABLE SARANET FILTER			
			QUANTITY	**pc**	1	1	2	2
	CASING			**COLOUR**	WITHOUT POWDER PAINT			
OUTDOOR UNIT	**AIR FLOW**			**l/s / CFM**	689/1460	689/1460	684/1450	684/1450
	SOUND PRESSURE LEVEL			**dBA**	52	52	58	58
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	753 x 855 x 328	753 x 855 x 328	753 x 855 x 328	753 x 855 x 328
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	810 x 990 x 415	810 x 990 x 415	810 x 990 x 415	810 x 990 x 415
	UNIT WEIGHT			**kg**	50	50	57	57
	PIPE CONNECTION	**TYPE**		FLARE VALVE			
		SIZE	**LIQUID**	**mm**	6.35	6.35	9.52	9.52
			GAS	**mm**	15.88	15.88	15.88	15.88
	FAN	**TYPE**		PROPELLER			
		DRIVE		DIRECT			
	FAN MOTOR	**TYPE**		INDUCTION			
		INDEX OF PROTECTION (IP)		IP23	IP23	IP23	IP23
		INSULATION GRADE		CLASS F	CLASS F	CLASS F	CLASS F
		RATED INPUT POWER	**W**	97	97	124	124
		RATED RUNNING CURRENT	**A**	0.43	0.43	0.54	0.54
		MOTOR OUTPUT	**W**	64	64	75	75
		POLES		6	6	6	6
	COMPRESSOR	**TYPE**		ROTARY			
		OIL TYPE		RB68A or FREOL ALPHA68M			
		OIL AMOUNT	**cm³**	1130	1130	1242	1242
		RATED INPUT POWER (COOLING)	**W**	1742	2013	2499	2483
		RATED INPUT POWER (HEATING)	**W**	1692	1892	2036	2094
		RATED RUNNING CURRENT (COOLING)	**A**	7.73	3.81	11.00	4.29
		RATED RUNNING CURRENT (HEATING)	**A**	7.63	3.60	9.38	3.90
		LOCKED ROTOR AMP.	**A**	63	26	65	26
	COIL	**TUBE**	**MATERIAL**	COPPER			
			DIAMETER	**mm**	7	7	7	7
		FIN	**MATERIAL**	ALUMINIUM			
			FACE AREA	**m²**	0.620	0.620	0.620	0.620
			ROW		2	2	2	2
	CASING			**COLOUR**	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - R410A MODEL

MODEL	**INDOOR UNIT**			**FDMRN100CXV1**	**FDMRN100CXV1**	**FDMRN100CXV1**	**FDMRN100CXV1**
	OUTDOOR UNIT			**RR90DXV1**	**RR90DXY1**	**RR100DXV1**	**RR100DXY1**
NOMINAL COOLING CAPACITY			**Btu/h**	32000	33000	39000	39000
			W	9380	9670	11430	11430
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	3287	3427	4287	4287
NOMINAL RUNNING CURRENT (COOLING)			**A**	15.20	5.90	19.00	7.40
EER			**W/W**	3.07	3.03	2.82	2.82
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			**kg**	2.60	2.60	2.10	2.10
MODEL	**INDOOR UNIT**			**FDMQN100CXV1**	**FDMQN100CXV1**	**FDMQN1000CXV1**	**FDMQN100CXV1**
	OUTDOOR UNIT			**RQ90DXV1**	**RQ90DXY1**	**RQ100DXV1**	**RQ100DXY1**
NOMINAL COOLING CAPACITY			**Btu/h**	32000	33000	39000	39000
			W	9380	9670	11430	11430
NOMINAL HEATING CAPACITY			**Btu/h**	34000	36000	41000	41000
			W	9960	10550	12020	12020
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	3287	3427	4287	4287
NOMINAL TOTAL INPUT POWER (HEATING)			**W**	2987	3137	3937	3937
NOMINAL RUNNING CURRENT (COOLING)			**A**	15.20	5.90	19.00	7.40
NOMINAL RUNNING CURRENT (HEATING)			**A**	14.00	5.50	17.60	7.00
EER			**W/W**	3.07	3.03	2.82	2.82
COP			**W/W**	3.62	3.64	3.25	3.25
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			**kg**	2.60	2.60	2.10	2.10
POWER SOURCE			**V/Ph/Hz**	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
REFRIGERANT TYPE				R410A			
INDOOR UNIT	**CONTROL**	**AIR DISCHARGE**		DUCTED			
		OPERATION		SLM WIRED HANDSET			
	AIR FLOW	**SUPER HIGH**	**l/s / CFM**	604/1280	604/1280	604/1280	604/1280
		HIGH	**l/s / CFM**	547/1160	547/1160	547/1160	547/1160
		MEDIUM	**l/s / CFM**	496/1050	496/1050	496/1050	496/1050
		LOW	**l/s / CFM**	434/920	434/920	434/920	434/920
	EXTERNAL STATIC PRESSURE (SH/H/M/L)		**Pa (in.wg.)**	118/96/78/61 (0.47/0.38/0.31/0.24)	118/96/78/61 (0.47/0.38/0.31/0.24)	118/96/78/61 (0.47/0.38/0.31/0.24)	118/96/78/61 (0.47/0.38/0.31/0.24)
	SOUND PRESSURE LEVEL (SH/H/M/L)		**dBA**	52/49/47/45	52/49/47/45	52/49/47/45	52/49/47/45
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	315 x 1257 x 638	315 x 1257 x 638	315 x 1257 x 638	315 x 1257 x 638
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	355 x 1461 x 727	355 x 1461 x 727	355 x 1461 x 727	355 x 1461 x 727
	UNIT WEIGHT		**kg**	49	49	49	49
	CONDENSATE DRAIN SIZE		**mm**	19.05	19.05	19.05	19.05
	FAN	**TYPE**		CENTRIFUGAL			
		DRIVE		DIRECT			
	FAN MOTOR	**TYPE**		INDUCTION			
		INDEX OF PROTECTION (IP)		IP21	IP21	IP21	IP21
		INSULATION GRADE		CLASS B	CLASS B	CLASS B	CLASS B
		RATED INPUT POWER	**W**	503	503	503	503
		RATED RUNNING CURRENT	**A**	2.27	2.27	2.27	2.27
		MOTOR OUTPUT	**W**	470	470	470	470
		POLES		4	4	4	4
	COIL	**TUBE**	**MATERIAL**	COPPER			
			DIAMETER	**mm**	7	7	7	7
		FIN	**MATERIAL**	ALUMINIUM			
			FACE AREA	**m²**	0.340	0.340	0.340	0.340
			ROW		3	3	3	3
	AIR QUALITY	**FILTER**	**TYPE**	WASHABLE SARANET FILTER			
			QUANTITY	**pc**	2	2	2	2
	CASING			**COLOUR**	WITHOUT POWDER PAINT			
OUTDOOR UNIT	**AIR FLOW**			**l/s / CFM**	1605/3400	1605/3400	1605/3400	1605/3400
	SOUND PRESSURE LEVEL			**dBA**	58	58	58	58
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**		**mm**	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514
	UNIT WEIGHT			**kg**	86	86	95	95
	PIPE CONNECTION	**TYPE**			FLARE VALVE			
		SIZE	**LIQUID**	**mm**	9.52	9.52	9.52	9.52
			GAS	**mm**	15.88	15.88	15.88	15.88
	FAN	**TYPE**			PROPELLER			
		DRIVE			DIRECT			
	FAN MOTOR	**TYPE**			INDUCTION			
		INDEX OF PROTECTION (IP)			N/A	N/A	N/A	N/A
		INSULATION GRADE			CLASS B	CLASS B	CLASS B	CLASS B
		RATED INPUT POWER		**W**	257	257	257	257
		RATED RUNNING CURRENT		**A**	1.10	1.10	1.10	1.10
		MOTOR OUTPUT		**W**	145	145	145	145
		POLES			8	8	8	8
	COMPRESSOR	**TYPE**			SCROLL			
		OIL TYPE			MOBIL EAL ARCTIC 22CC			
		OIL AMOUNT		**cm³**	1242	1242	1951	1951
		RATED INPUT POWER (COOLING)		**W**	2527	2667	3527	3527
		RATED INPUT POWER (HEATING)		**W**	2227	2377	3177	3177
		RATED RUNNING CURRENT (COOLING)		**A**	11.80	4.78	15.60	6.28
		RATED RUNNING CURRENT (HEATING)		**A**	10.60	4.38	14.20	5.88
		LOCKED ROTOR AMP.		**A**	97	48	136	64
	COIL	**TUBE**	**MATERIAL**	COPPER			
			DIAMETER	**mm**	7	7	7	7
		FIN	**MATERIAL**	ALUMINIUM			
			FACE AREA	**m²**	0.870	0.870	0.870	0.870
			ROW		2	2	2	2
	CASING			**COLOUR**	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Engineering Data - R410A MODEL

MODEL	**INDOOR UNIT**			**FDMRN125CXV1**	**FDMRN140CXV1**		
	OUTDOOR UNIT			**RR125DXY1**	**RR140DXY1**		
NOMINAL COOLING CAPACITY			**Btu/h**	45000	55000		
			W	13190	16120		
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	4931	5758		
NOMINAL RUNNING CURRENT (COOLING)			**A**	8.50	9.40		
EER			**W/W**	2.87	3.01		
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			**kg**	2.25	2.90		
MODEL	**INDOOR UNIT**			**FDMQN125CXV1**	**FDMQN140CXV1**		
	OUTDOOR UNIT			**RQ125DXY1**	**RQ140DXY1**		
NOMINAL COOLING CAPACITY			**Btu/h**	45000	55000		
			W	13190	16120		
NOMINAL HEATING CAPACITY			**Btu/h**	47000	55000		
			W	13770	16120		
NOMINAL TOTAL INPUT POWER (COOLING)			**W**	4931	5758		
NOMINAL TOTAL INPUT POWER (HEATING)			**W**	4371	5128		
NOMINAL RUNNING CURRENT (COOLING)			**A**	8.50	9.40		
NOMINAL RUNNING CURRENT (HEATING)			**A**	7.80	8.60		
EER			**W/W**	2.87	3.01		
COP			**W/W**	3.41	3.41		
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP. TUBE			
REFRIGERANT CHARGE			**kg**	2.25	2.90		
POWER SOURCE			**V/Ph/Hz**	380-415/3/50	380-415/3/50		
REFRIGERANT TYPE				R410A			
INDOOR UNIT	**CONTROL**	**AIR DISCHARGE**		DUCTED			
		OPERATION		SLM WIRED HANDSET			
	AIR FLOW	**SUPER HIGH**	**l/s / CFM**	675/1430	812/1720		
		HIGH	**l/s / CFM**	623/1320	732/1550		
		MEDIUM	**l/s / CFM**	580/1230	632/1340		
		LOW	**l/s / CFM**	533/1130	552/1170		
	EXTERNAL STATIC PRESSURE (SH/H/M/L)		**Pa (in.wg.)**	147/126/109/92 (0.59/0.51/0.44/0.37)	147/120/90/69 (0.59/0.48/0.36/0.28)		
	SOUND PRESSURE LEVEL (SH/H/M/L)		**dBA**	54/53/52/51	54/52/50/46		
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	378 x 1299 x 541	378 x 1499 x 541		
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	415 x 1497 x 631	415 x 1701 x 631		
	UNIT WEIGHT		**kg**	50	56		
	CONDENSATE DRAIN SIZE		**mm**	19.05	19.05		
	FAN	**TYPE**		CENTRIFUGAL			
		DRIVE		DIRECT			
	FAN MOTOR	**TYPE**		INDUCTION			
		INDEX OF PROTECTION (IP)		IP20	IP20		
		INSULATION GRADE		CLASS B	CLASS B		
		RATED INPUT POWER	**W**	515	659		
		RATED RUNNING CURRENT	**A**	2.32	2.91		
		MOTOR OUTPUT	**W**	480	600		
		POLES		4	4		
	COIL	**TUBE**	**MATERIAL**	COPPER			
			DIAMETER	**mm**	7	7	
		FIN	**MATERIAL**	ALUMINIUM			
			FACE AREA	**m²**	0.400	0.470	
			ROW		3	3	
	AIR QUALITY	**FILTER**	**TYPE**	WASHABLE SARANET FILTER			
			QUANTITY	**pc**	2	2	
	CASING		**COLOUR**	WITHOUT POWDER PAINT			
OUTDOOR UNIT	**AIR FLOW**		**l/s / CFM**	2171/4600	2171/4600		
	SOUND PRESSURE LEVEL		**dBA**	60	65		
	UNIT DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	852 x 1030 x 400	852 x 1030 x 400		
	PACKING DIMENSION	**HEIGHT X WIDTH X DEPTH**	**mm**	1010 x 1180 x 514	1010 x 1180 x 514		
	UNIT WEIGHT		**kg**	98	105		
	PIPE CONNECTION	**TYPE**		FLARE VALVE			
		SIZE	**LIQUID**	**mm**	9.52	9.52	
			GAS	**mm**	15.88	19.05	
	FAN	**TYPE**		PROPELLER			
		DRIVE		DIRECT			
	FAN MOTOR	**TYPE**		INDUCTION			
		INDEX OF PROTECTION (IP)		IP20	IP54		
		INSULATION GRADE		CLASS F	CLASS F		
		RATED INPUT POWER	**W**	276	496		
		RATED RUNNING CURRENT	**A**	1.34	2.18		
		MOTOR OUTPUT	**W**	145	400		
		POLES		8	6		
	COMPRESSOR	**TYPE**		SCROLL			
		OIL TYPE		MOBIL EAL ARCTIC 22CC			
		OIL AMOUNT	**cm³**	1656	1591		
		RATED INPUT POWER (COOLING)	**W**	4140	4603		
		RATED INPUT POWER (HEATING)	**W**	3580	3973		
		RATED RUNNING CURRENT (COOLING)	**A**	7.28	7.70		
		RATED RUNNING CURRENT (HEATING)	**A**	6.58	6.90		
		LOCKED ROTOR AMP.	**A**	74	74		
	COIL	**TUBE**	**MATERIAL**	COPPER			
			DIAMETER	**mm**	7	7	
		FIN	**MATERIAL**	ALUMINIUM			
			FACE AREA	**m²**	0.870	0.840	
			ROW		2	3	
	CASING		**COLOUR**	LIGHT GREY			

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Safety Device

MODEL	INDOOR			FDMRN25CXV1	FDMRN35CXV1	FDMRN50CXV1
	OUTDOOR			RN25CXV1	RN35CXV1	RN50CXV1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A		
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A		

MODEL	INDOOR			FDMRN60CXV1	FDMRN50CXV1	FDMRN60CXV1
	OUTDOOR			RN60CXV1	RN50CXY1	RN60CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A	YES	
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	

MODEL	INDOOR			FDMRN71CXV1		FDMRN100CXV1
	OUTDOOR			RR71CXV1	RR71CXY1	RR90DXV1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		NC
		OPEN	kPa / psi	N/A		4137 / 600
		CLOSE	kPa / psi	N/A		3310 / 480
	LOW PRESSURE SWITCH	TYPE		N/A		NC
		OPEN	kPa / psi	N/A		48 / 7
		CLOSE	kPa / psi	N/A		152 / 22
	PHASE SEQUENCER			N/A	YES	N/A
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	N/A

MODEL	INDOOR			FDMRN100CXV1	FDMRN100CXV1	
	OUTDOOR			RR90DXY1	RR100DXV1	RR100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	4137 / 600		
		CLOSE	kPa / psi	3310 / 480		
	LOW PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	48 / 7		
		CLOSE	kPa / psi	152 / 22		
	PHASE SEQUENCER			YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	130 / 266	N/A	130 / 266

MODEL	INDOOR			FDMRN125CXV1	FDMRN140CXV1
	OUTDOOR			RR125DXY1	RR140DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	4137 / 600	
		CLOSE	kPa / psi	3310 / 480	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	48 / 7	
		CLOSE	kPa / psi	152 / 22	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	130 / 266	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

MODEL	INDOOR			FDMQN25CXV1	FDMQN35CXV1	FDMQN50CXV1
	OUTDOOR			RYN25CXV1	RYN35CXV1	RYN50CXV1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A		
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A		

MODEL	INDOOR			FDMQN60CXV1	FDMQN50CXV1	FDMQN60CXV1
	OUTDOOR			RYN60CXV1	RYN50CXY1	RYN60CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A	YES	
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	

MODEL	INDOOR			FDMQN71CXV1		FDMQN100CXV1
	OUTDOOR			RQ71CXV1	RQ71CXY1	RQ90DXV1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		NC
		OPEN	kPa / psi	N/A		4137 / 600
		CLOSE	kPa / psi	N/A		3310 / 480
	LOW PRESSURE SWITCH	TYPE		N/A		NC
		OPEN	kPa / psi	N/A		48 / 7
		CLOSE	kPa / psi	N/A		152 / 22
	PHASE SEQUENCER			N/A	YES	N/A
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	N/A	130 / 266	N/A

MODEL	INDOOR			FDMQN100CXV1	FDMQN100CXV1	
	OUTDOOR			RQ90DXY1	RQ100DXV1	RQ100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	4137 / 600		
		CLOSE	kPa / psi	3310 / 480		
	LOW PRESSURE SWITCH	TYPE		NC		
		OPEN	kPa / psi	48 / 7		
		CLOSE	kPa / psi	152 / 22		
	PHASE SEQUENCER			YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	130 / 266	N/A	130 / 266

MODEL	INDOOR			FDMQN125CXV1	FDMQN140CXV1
	OUTDOOR			RQ125DXY1	RQ140DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	4137 / 600	
		CLOSE	kPa / psi	3310 / 480	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	48 / 7	
		CLOSE	kPa / psi	152 / 22	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		˚C / ˚F	130 / 266	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Performance Data

Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

Example:

Model: FDMRN25CXV1 – RN25CXV1
Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB
Fan Speed: High

Solution:
Based on the Performance Table,

1. Refer to the Indoor DB column,
   - **25°C** is located between 24°C & 27°C for 16°C WB.
   - **25°C** is located between 24°C & 27°C for 19°C WB.
   - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
   - **17°C** is located between 16°C & 19°C for 25°C DB.
   - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
   - **37°C** is located between 35°C & 40°C.
   - Thus, Interpolation needs to be applied.

1st Step
Interpolation of Indoor WB
Find TC, SC & PI
(a) Indoor: **25°C DB**, 16°C WB
Outdoor: 35°C DB
(b) Indoor: **25°C DB**, 19°C WB
Outdoor: 35°C DB
(c) Indoor: **25°C DB**, 16°C WB
Outdoor: 40°C DB
(d) Indoor: **25°C DB**, 19°C WB
Outdoor: 40°C DB

⇨

2nd Step
Interpolation of Indoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, **17°C WB**
Outdoor: 35°C DB
(b) Indoor: 25°C DB, **17°C WB**
Outdoor: 40°C DB

⇨

3rd Step
Interpolation of Outdoor DB
Find TC, SC & PI
(a) Indoor: 25°C DB, 17°C WB
Outdoor: **37°C DB**

Details of Calculation:

1st Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	24		3.20	3.20	1.27	
	25	- - - - - -	x_1	y_1	z_1	
	27		3.30	3.30	1.27	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_1 - 3.20kW}{3.30kW - 3.20kW}$$

$\Rightarrow x_1 = 3.23kW$

Similarly,

$y_1 = 3.23kW$

$z_1 = 1.27kW$

(b) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
19	24		3.51	2.57	1.29	
	25	------	x_2	y_2	z_2	
	27		3.52	2.99	1.29	

By Interpolation Method

$$\Rightarrow \frac{25°C - 24°C}{27°C - 24°C} = \frac{x_2 - 3.51kW}{3.52kW - 3.51kW}$$

$\Rightarrow x_2 = 3.51kW$

Similarly,

$y_2 = 2.71kW$

$z_2 = 1.29kW$

Repeat the same process for (c) & (d) in 1st Step

(c) $x_3 = 2.98$ kW; $y_3 = 2.98$ kW; $z_3 = 1.38$ kW

(d) $x_4 = 3.22$ W; $y_4 = 2.53$ kW; $z_4 = 1.40$ kW

2nd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
			35°C			
			TC	SC	PI	
			⋮	⋮	⋮	
16	25		3.23	3.23	1.27	
17		------	x_5	y_5	z_5	
19			3.51	2.71	1.29	

By Interpolation Method

$$\Rightarrow \frac{17°C - 16°C}{19°C - 16°C} = \frac{x_5 - 3.23kW}{3.51kW - 3.23kW}$$

$\Rightarrow x_5 = 3.32kW$

Similarly,

$y_5 = 3.06kW$

$z_5 = 1.28kW$

Repeat the same process for (b) in 2nd Step

(c) $x_6 = 3.06$ kW; $y_6 = 2.83$ kW; $z_6 = 1.39$ kW

3rd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature								
			35°C			37°C			40°C	
			TC	SC	PI	TC	SC	PI	TC	SC	PI
						⋮	⋮	⋮			
25	17	------	3.32	3.06	1.28	x	y	z	3.06	2.83	1.39

By Interpolation Method

$$\Rightarrow \frac{37°C - 35°C}{40°C - 35°C} = \frac{x - 3.32kW}{3.06kW - 3.32kW}$$

$\Rightarrow x = 3.22kW$

Similarly,

$y = 2.97kW$

$z = 1.35kW$

Performance Tables

R410A Cooling Only

Model: FDMRN25CXV1 - RN25CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
210	16°C	21°C	2.62	1.83	0.73	2.53	1.79	0.79	2.44	1.74	0.85	2.34	1.69	0.93	2.15	1.57	1.01	1.98	1.48	1.11
		24°C	2.63	2.20	0.73	2.53	2.15	0.79	2.44	2.10	0.85	2.34	2.04	0.93	2.15	1.91	1.01	1.99	1.80	1.11
		27°C	2.65	2.49	0.73	2.56	2.43	0.79	2.47	2.38	0.86	2.38	2.31	0.93	2.19	2.15	1.01	2.04	2.02	1.11
		30°C	2.73	2.73	0.73	2.65	2.65	0.80	2.57	2.57	0.86	2.49	2.49	0.94	2.30	2.30	1.02	2.16	2.16	1.12
	19°C	24°C	2.89	1.71	0.74	2.79	1.67	0.80	2.69	1.62	0.87	2.58	1.58	0.94	2.37	1.47	1.02	2.19	1.38	1.13
		27°C	2.89	1.96	0.74	2.79	1.91	0.80	2.69	1.87	0.87	2.58	1.83	0.94	2.37	1.71	1.02	2.20	1.62	1.13
		30°C	2.90	2.42	0.74	2.80	2.37	0.80	2.70	2.31	0.87	2.60	2.26	0.94	2.39	2.11	1.02	2.22	2.00	1.13
		33°C	2.93	2.93	0.74	2.84	2.84	0.80	2.75	2.75	0.87	2.65	2.65	0.95	2.45	2.45	1.03	2.29	2.29	1.14
	22°C	27°C	3.18	1.68	0.75	3.07	1.63	0.82	2.96	1.59	0.89	2.84	1.55	0.96	2.62	1.44	1.04	2.42	1.36	1.15
		30°C	3.18	2.04	0.75	3.07	2.00	0.82	2.96	1.95	0.89	2.84	1.91	0.96	2.62	1.78	1.04	2.42	1.69	1.15
		33°C	3.18	2.38	0.75	3.07	2.34	0.82	2.96	2.29	0.89	2.85	2.25	0.96	2.62	2.11	1.04	2.43	2.00	1.15
		36°C	3.19	2.70	0.76	3.09	2.65	0.82	2.98	2.59	0.89	2.87	2.54	0.96	2.65	2.38	1.05	2.46	2.26	1.15
235	16°C	21°C	2.73	1.91	0.74	2.63	1.86	0.80	2.53	1.81	0.86	2.43	1.76	0.93	2.23	1.64	1.01	2.05	1.54	1.12
		24°C	2.74	2.32	0.74	2.64	2.27	0.80	2.54	2.21	0.86	2.44	2.16	0.94	2.24	2.01	1.01	2.07	1.90	1.12
		27°C	2.77	2.64	0.74	2.68	2.57	0.80	2.58	2.51	0.87	2.49	2.43	0.94	2.30	2.26	1.02	2.14	2.11	1.12
		30°C	2.88	2.88	0.74	2.80	2.80	0.81	2.72	2.72	0.87	2.63	2.63	0.95	2.43	2.43	1.03	2.28	2.28	1.14
	19°C	24°C	3.00	1.81	0.75	2.90	1.76	0.81	2.79	1.72	0.88	2.68	1.67	0.95	2.46	1.56	1.03	2.27	1.47	1.14
		27°C	3.01	2.08	0.75	2.90	2.04	0.81	2.79	1.99	0.88	2.68	1.94	0.95	2.46	1.82	1.03	2.28	1.72	1.14
		30°C	3.02	2.57	0.75	2.92	2.51	0.81	2.81	2.46	0.88	2.71	2.40	0.95	2.49	2.24	1.03	2.31	2.12	1.14
		33°C	3.07	3.07	0.75	2.98	2.98	0.81	2.89	2.89	0.88	2.79	2.79	0.96	2.58	2.58	1.04	2.42	2.42	1.15
	22°C	27°C	3.30	1.77	0.76	3.19	1.73	0.83	3.07	1.69	0.89	2.95	1.64	0.97	2.71	1.53	1.05	2.50	1.44	1.16
		30°C	3.31	2.17	0.76	3.19	2.13	0.83	3.07	2.08	0.89	2.95	2.03	0.97	2.71	1.90	1.05	2.51	1.81	1.16
		33°C	3.31	2.55	0.76	3.20	2.50	0.83	3.08	2.45	0.90	2.96	2.39	0.97	2.72	2.25	1.05	2.52	2.13	1.16
		36°C	3.33	2.88	0.76	3.22	2.82	0.83	3.11	2.76	0.90	3.00	2.70	0.97	2.77	2.53	1.06	2.58	2.38	1.17
250	16°C	21°C	2.83	1.99	0.74	2.72	1.94	0.80	2.62	1.89	0.87	2.51	1.84	0.94	2.30	1.71	1.02	2.12	1.61	1.13
		24°C	2.84	2.42	0.74	2.74	2.37	0.80	2.64	2.31	0.87	2.53	2.25	0.94	2.32	2.10	1.02	2.15	1.98	1.13
		27°C	2.89	2.78	0.74	2.79	2.71	0.81	2.70	2.63	0.87	2.60	2.55	0.95	2.41	2.36	1.03	2.24	2.20	1.14
		30°C	3.03	3.03	0.75	2.94	2.94	0.81	2.85	2.85	0.88	2.76	2.76	0.96	2.56	2.56	1.04	2.39	2.39	1.15
	19°C	24°C	3.11	1.91	0.75	3.00	1.87	0.82	2.89	1.82	0.88	2.77	1.77	0.96	2.54	1.65	1.04	2.35	1.55	1.15
		27°C	3.12	2.21	0.75	3.01	2.16	0.82	2.90	2.11	0.89	2.78	2.06	0.96	2.55	1.93	1.04	2.36	1.82	1.15
		30°C	3.15	2.72	0.76	3.04	2.66	0.82	2.93	2.60	0.89	2.82	2.54	0.96	2.59	2.37	1.04	2.41	2.23	1.15
		33°C	3.22	3.22	0.76	3.12	3.12	0.82	3.03	3.03	0.89	2.93	2.93	0.97	2.71	2.71	1.05	2.54	2.54	1.16
	22°C	27°C	3.42	1.87	0.77	3.29	1.83	0.83	3.17	1.78	0.90	3.04	1.74	0.98	2.80	1.62	1.06	2.58	1.53	1.17
		30°C	3.42	2.31	0.77	3.30	2.26	0.83	3.18	2.21	0.90	3.05	2.16	0.98	2.80	2.03	1.06	2.59	1.92	1.17
		33°C	3.43	2.70	0.77	3.32	2.66	0.83	3.19	2.60	0.90	3.07	2.54	0.98	2.82	2.38	1.06	2.62	2.26	1.17
		36°C	3.47	3.05	0.77	3.36	3.00	0.84	3.24	2.93	0.91	3.12	2.86	0.98	2.89	2.67	1.07	2.69	2.51	1.18

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN35CXV1 - RN35CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
250	16°C	21°C	3.45	2.37	0.99	3.33	2.31	1.07	3.20	2.25	1.16	3.08	2.18	1.25	2.82	2.03	1.36	2.61	1.91	1.50
		24°C	3.45	2.84	0.99	3.33	2.78	1.07	3.21	2.71	1.16	3.08	2.64	1.25	2.83	2.47	1.36	2.62	2.33	1.50
		27°C	3.48	3.22	0.99	3.37	3.15	1.07	3.25	3.07	1.16	3.12	3.00	1.26	2.88	2.79	1.37	2.68	2.62	1.51
		30°C	3.59	3.59	0.99	3.49	3.49	1.08	3.38	3.38	1.17	3.27	3.27	1.27	3.03	3.03	1.38	2.84	2.84	1.52
	19°C	24°C	3.80	2.22	1.00	3.67	2.16	1.09	3.54	2.10	1.18	3.40	2.04	1.28	3.12	1.90	1.38	2.89	1.79	1.53
		27°C	3.81	2.53	1.00	3.67	2.48	1.09	3.54	2.42	1.18	3.40	2.36	1.28	3.12	2.21	1.38	2.89	2.09	1.53
		30°C	3.81	3.13	1.00	3.68	3.06	1.09	3.55	2.99	1.18	3.42	2.92	1.28	3.15	2.73	1.39	2.92	2.59	1.53
		33°C	3.86	3.86	1.01	3.73	3.73	1.09	3.61	3.61	1.18	3.49	3.49	1.28	3.23	3.23	1.39	3.02	3.02	1.54
	22°C	27°C	4.19	2.17	1.02	4.04	2.12	1.11	3.89	2.06	1.20	3.74	2.01	1.30	3.44	1.87	1.41	3.18	1.76	1.56
		30°C	4.19	2.64	1.02	4.04	2.59	1.11	3.89	2.53	1.20	3.74	2.47	1.30	3.44	2.31	1.41	3.19	2.19	1.56
		33°C	4.19	3.09	1.02	4.04	3.03	1.11	3.90	2.97	1.20	3.74	2.91	1.30	3.45	2.73	1.41	3.19	2.59	1.56
		36°C	4.20	3.50	1.02	4.06	3.43	1.11	3.92	3.36	1.20	3.78	3.28	1.30	3.49	3.08	1.42	3.24	2.92	1.56
370	16°C	21°C	3.59	2.48	1.00	3.46	2.41	1.08	3.33	2.35	1.17	3.19	2.28	1.27	2.93	2.13	1.37	2.70	2.00	1.51
		24°C	3.60	3.01	1.00	3.47	2.94	1.08	3.34	2.87	1.17	3.21	2.79	1.27	2.95	2.61	1.37	2.72	2.46	1.51
		27°C	3.64	3.41	1.00	3.52	3.34	1.08	3.40	3.25	1.17	3.28	3.15	1.27	3.03	2.93	1.38	2.82	2.74	1.52
		30°C	3.80	3.80	1.01	3.69	3.69	1.09	3.57	3.57	1.18	3.46	3.46	1.28	3.20	3.20	1.39	3.00	3.00	1.54
	19°C	24°C	3.96	2.34	1.01	3.81	2.28	1.10	3.67	2.23	1.19	3.52	2.16	1.29	3.24	2.02	1.40	2.99	1.90	1.54
		27°C	3.96	2.70	1.01	3.82	2.64	1.10	3.68	2.58	1.19	3.53	2.52	1.29	3.24	2.35	1.40	3.00	2.23	1.54
		30°C	3.98	3.33	1.01	3.84	3.26	1.10	3.71	3.18	1.19	3.56	3.11	1.29	3.28	2.90	1.40	3.04	2.74	1.54
		33°C	4.05	4.05	1.02	3.92	3.92	1.10	3.80	3.80	1.20	3.67	3.67	1.30	3.40	3.40	1.41	3.18	3.18	1.56
	22°C	27°C	4.35	2.29	1.03	4.19	2.24	1.12	4.04	2.18	1.21	3.88	2.12	1.31	3.56	1.98	1.42	3.30	1.87	1.57
		30°C	4.35	2.82	1.03	4.20	2.76	1.12	4.04	2.70	1.21	3.88	2.63	1.31	3.57	2.47	1.43	3.30	2.34	1.57
		33°C	4.36	3.30	1.03	4.21	3.24	1.12	4.05	3.17	1.21	3.89	3.10	1.32	3.58	2.91	1.43	3.32	2.76	1.57
		36°C	4.39	3.73	1.03	4.24	3.66	1.12	4.10	3.58	1.22	3.95	3.50	1.32	3.64	3.27	1.43	3.40	3.09	1.58
410	16°C	21°C	3.72	2.58	1.00	3.59	2.52	1.09	3.45	2.45	1.18	3.31	2.38	1.28	3.03	2.22	1.38	2.80	2.09	1.52
		24°C	3.74	3.14	1.01	3.61	3.07	1.09	3.47	2.99	1.18	3.33	2.91	1.28	3.06	2.72	1.39	2.83	2.56	1.53
		27°C	3.80	3.60	1.01	3.68	3.51	1.09	3.55	3.41	1.18	3.43	3.30	1.28	3.17	3.06	1.39	2.95	2.86	1.54
		30°C	3.99	3.99	1.02	3.88	3.88	1.10	3.76	3.76	1.20	3.63	3.63	1.30	3.36	3.36	1.41	3.14	3.14	1.56
	19°C	24°C	4.10	2.48	1.02	3.95	2.42	1.11	3.80	2.36	1.20	3.65	2.29	1.30	3.35	2.14	1.41	3.09	2.02	1.55
		27°C	4.11	2.87	1.02	3.96	2.80	1.11	3.81	2.74	1.20	3.66	2.67	1.30	3.36	2.50	1.41	3.11	2.36	1.55
		30°C	4.14	3.53	1.02	4.00	3.45	1.11	3.85	3.37	1.20	3.71	3.29	1.30	3.41	3.07	1.41	3.17	2.90	1.56
		33°C	4.23	4.23	1.03	4.11	4.11	1.12	3.98	3.98	1.21	3.85	3.85	1.31	3.57	3.57	1.43	3.34	3.34	1.58
	22°C	27°C	4.50	2.43	1.04	4.34	2.37	1.13	4.17	2.31	1.22	4.01	2.25	1.32	3.68	2.10	1.44	3.40	1.98	1.58
		30°C	4.51	2.99	1.04	4.35	2.93	1.13	4.18	2.87	1.22	4.01	2.80	1.33	3.69	2.63	1.44	3.41	2.49	1.58
		33°C	4.52	3.50	1.04	4.37	3.44	1.13	4.21	3.37	1.22	4.04	3.30	1.33	3.72	3.09	1.44	3.44	2.93	1.59
		36°C	4.56	3.96	1.04	4.42	3.88	1.13	4.27	3.80	1.23	4.11	3.70	1.33	3.80	3.46	1.45	3.55	3.25	1.60

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN50CXV1 - RN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
480	16°C	21°C	4.98	3.48	1.34	4.80	3.39	1.45	4.63	3.30	1.57	4.44	3.20	1.70	4.08	2.98	1.84	3.76	2.80	2.03
		24°C	4.99	4.17	1.34	4.81	4.07	1.45	4.63	3.98	1.57	4.45	3.88	1.70	4.08	3.62	1.84	3.78	3.42	2.03
		27°C	5.03	4.72	1.34	4.86	4.62	1.45	4.69	4.51	1.57	4.51	4.39	1.70	4.16	4.09	1.85	3.87	3.84	2.04
		30°C	5.18	5.18	1.35	5.03	5.03	1.46	4.88	4.88	1.58	4.72	4.72	1.72	4.38	4.38	1.86	4.10	4.10	2.06
	19°C	24°C	5.49	3.25	1.36	5.30	3.17	1.47	5.11	3.08	1.59	4.90	3.00	1.73	4.51	2.79	1.87	4.17	2.63	2.07
		27°C	5.50	3.72	1.36	5.30	3.63	1.47	5.11	3.55	1.59	4.91	3.46	1.73	4.51	3.24	1.88	4.17	3.07	2.07
		30°C	5.51	4.59	1.36	5.31	4.49	1.47	5.13	4.39	1.59	4.93	4.28	1.73	4.54	4.01	1.88	4.21	3.79	2.07
		33°C	5.57	5.57	1.36	5.39	5.39	1.48	5.21	5.21	1.60	5.04	5.04	1.74	4.66	4.66	1.89	4.36	4.36	2.08
	22°C	27°C	6.04	3.18	1.38	5.83	3.10	1.50	5.62	3.03	1.62	5.40	2.94	1.76	4.97	2.74	1.91	4.60	2.58	2.11
		30°C	6.04	3.88	1.38	5.84	3.79	1.50	5.62	3.71	1.62	5.40	3.62	1.76	4.97	3.39	1.91	4.60	3.21	2.11
		33°C	6.05	4.53	1.38	5.84	4.44	1.50	5.63	4.35	1.62	5.41	4.26	1.76	4.97	4.00	1.91	4.61	3.80	2.11
		36°C	6.07	5.13	1.38	5.87	5.03	1.50	5.66	4.92	1.63	5.46	4.82	1.77	5.03	4.52	1.92	4.68	4.28	2.11
558	16°C	21°C	5.18	3.63	1.35	4.99	3.53	1.46	4.80	3.44	1.58	4.61	3.34	1.71	4.23	3.11	1.86	3.90	2.93	2.05
		24°C	5.20	4.40	1.35	5.01	4.30	1.46	4.82	4.20	1.58	4.63	4.09	1.72	4.25	3.82	1.86	3.93	3.60	2.05
		27°C	5.26	5.00	1.35	5.08	4.89	1.46	4.91	4.76	1.59	4.73	4.62	1.72	4.37	4.29	1.87	4.07	4.01	2.06
		30°C	5.48	5.48	1.36	5.32	5.32	1.48	5.16	5.16	1.60	4.99	4.99	1.74	4.62	4.62	1.89	4.32	4.32	2.08
	19°C	24°C	5.71	3.43	1.37	5.50	3.35	1.48	5.30	3.26	1.61	5.08	3.17	1.74	4.67	2.95	1.89	4.31	2.78	2.08
		27°C	5.72	3.95	1.37	5.51	3.87	1.48	5.31	3.78	1.61	5.09	3.69	1.74	4.68	3.45	1.89	4.33	3.27	2.09
		30°C	5.74	4.88	1.37	5.54	4.77	1.49	5.35	4.66	1.61	5.14	4.55	1.75	4.73	4.26	1.90	4.39	4.02	2.09
		33°C	5.84	5.84	1.38	5.66	5.66	1.49	5.48	5.48	1.62	5.30	5.30	1.76	4.91	4.91	1.91	4.59	4.59	2.11
	22°C	27°C	6.27	3.36	1.40	6.05	3.28	1.51	5.83	3.20	1.64	5.59	3.11	1.78	5.14	2.90	1.93	4.75	2.74	2.12
		30°C	6.28	4.12	1.40	6.06	4.04	1.51	5.83	3.95	1.64	5.60	3.86	1.78	5.15	3.61	1.93	4.76	3.43	2.13
		33°C	6.29	4.83	1.40	6.07	4.74	1.51	5.85	4.64	1.64	5.62	4.54	1.78	5.17	4.26	1.93	4.79	4.05	2.13
		36°C	6.33	5.46	1.40	6.12	5.36	1.52	5.91	5.25	1.65	5.70	5.13	1.79	5.25	4.80	1.94	4.90	4.52	2.14
570	16°C	21°C	5.37	3.78	1.36	5.17	3.69	1.47	4.98	3.59	1.59	4.77	3.49	1.73	4.37	3.25	1.87	4.03	3.06	2.06
		24°C	5.40	4.60	1.36	5.20	4.49	1.47	5.01	4.38	1.60	4.81	4.27	1.73	4.41	3.98	1.88	4.08	3.75	2.07
		27°C	5.49	5.27	1.37	5.31	5.13	1.48	5.13	4.99	1.60	4.94	4.84	1.74	4.57	4.48	1.89	4.26	4.18	2.08
		30°C	5.76	5.76	1.38	5.59	5.59	1.49	5.42	5.42	1.62	5.24	5.24	1.76	4.85	4.85	1.91	4.53	4.53	2.11
	19°C	24°C	5.91	3.63	1.38	5.70	3.54	1.50	5.48	3.45	1.62	5.26	3.36	1.76	4.83	3.13	1.91	4.46	2.95	2.10
		27°C	5.93	4.20	1.38	5.72	4.10	1.50	5.50	4.01	1.62	5.28	3.91	1.76	4.85	3.66	1.91	4.48	3.46	2.10
		30°C	5.98	5.17	1.39	5.77	5.06	1.50	5.56	4.94	1.63	5.35	4.82	1.76	4.92	4.50	1.91	4.57	4.24	2.11
		33°C	6.11	6.11	1.39	5.93	5.93	1.51	5.75	5.75	1.64	5.56	5.56	1.78	5.15	5.15	1.93	4.81	4.81	2.13
	22°C	27°C	6.49	3.55	1.41	6.26	3.47	1.53	6.02	3.39	1.65	5.78	3.30	1.79	5.31	3.08	1.94	4.91	2.91	2.14
		30°C	6.50	4.38	1.41	6.27	4.30	1.53	6.03	4.20	1.65	5.79	4.11	1.79	5.32	3.85	1.95	4.92	3.65	2.14
		33°C	6.52	5.13	1.41	6.30	5.04	1.53	6.07	4.94	1.66	5.83	4.83	1.80	5.36	4.52	1.95	4.97	4.29	2.15
		36°C	6.58	5.79	1.41	6.38	5.69	1.53	6.16	5.56	1.66	5.93	5.43	1.80	5.48	5.06	1.96	5.11	4.76	2.16

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN50CXV1 - RN50CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
480	16°C	21°C	4.98	3.48	1.36	4.80	3.39	1.47	4.63	3.30	1.59	4.44	3.20	1.73	4.08	2.98	1.87	3.76	2.80	2.07
		24°C	4.99	4.17	1.36	4.81	4.07	1.47	4.63	3.98	1.59	4.45	3.88	1.73	4.08	3.62	1.88	3.78	3.42	2.07
		27°C	5.03	4.72	1.36	4.86	4.62	1.47	4.69	4.51	1.60	4.51	4.39	1.73	4.16	4.09	1.88	3.87	3.84	2.08
		30°C	5.18	5.18	1.37	5.03	5.03	1.48	4.88	4.88	1.61	4.72	4.72	1.75	4.38	4.38	1.90	4.10	4.10	2.10
	19°C	24°C	5.49	3.25	1.38	5.30	3.17	1.50	5.11	3.08	1.62	4.90	3.00	1.76	4.51	2.79	1.91	4.17	2.63	2.10
		27°C	5.50	3.72	1.38	5.30	3.63	1.50	5.11	3.55	1.62	4.91	3.46	1.76	4.51	3.24	1.91	4.17	3.07	2.10
		30°C	5.51	4.59	1.38	5.31	4.49	1.50	5.13	4.39	1.62	4.93	4.28	1.76	4.54	4.01	1.91	4.21	3.79	2.11
		33°C	5.57	5.57	1.39	5.39	5.39	1.50	5.21	5.21	1.63	5.04	5.04	1.77	4.66	4.66	1.92	4.36	4.36	2.12
	22°C	27°C	6.04	3.18	1.41	5.83	3.10	1.52	5.62	3.03	1.65	5.40	2.94	1.79	4.97	2.74	1.94	4.60	2.58	2.14
		30°C	6.04	3.88	1.41	5.84	3.79	1.52	5.62	3.71	1.65	5.40	3.62	1.79	4.97	3.39	1.95	4.60	3.21	2.14
		33°C	6.05	4.53	1.41	5.84	4.44	1.53	5.63	4.35	1.65	5.41	4.26	1.79	4.97	4.00	1.95	4.61	3.80	2.14
		36°C	6.07	5.13	1.41	5.87	5.03	1.53	5.66	4.92	1.66	5.46	4.82	1.80	5.03	4.52	1.95	4.68	4.28	2.15
558	16°C	21°C	5.18	3.63	1.37	4.99	3.53	1.48	4.80	3.44	1.61	4.61	3.34	1.74	4.23	3.11	1.89	3.90	2.93	2.08
		24°C	5.20	4.40	1.37	5.01	4.30	1.49	4.82	4.20	1.61	4.63	4.09	1.75	4.25	3.82	1.89	3.93	3.60	2.09
		27°C	5.26	5.00	1.38	5.08	4.89	1.49	4.91	4.76	1.61	4.73	4.62	1.75	4.37	4.29	1.90	4.07	4.01	2.10
		30°C	5.48	5.48	1.39	5.32	5.32	1.50	5.16	5.16	1.63	4.99	4.99	1.77	4.62	4.62	1.92	4.32	4.32	2.12
	19°C	24°C	5.71	3.43	1.40	5.50	3.35	1.51	5.30	3.26	1.64	5.08	3.17	1.77	4.67	2.95	1.92	4.31	2.78	2.12
		27°C	5.72	3.95	1.40	5.51	3.87	1.51	5.31	3.78	1.64	5.09	3.69	1.78	4.68	3.45	1.93	4.33	3.27	2.12
		30°C	5.74	4.88	1.40	5.54	4.77	1.51	5.35	4.66	1.64	5.14	4.55	1.78	4.73	4.26	1.93	4.39	4.02	2.13
		33°C	5.84	5.84	1.40	5.66	5.66	1.52	5.48	5.48	1.65	5.30	5.30	1.79	4.91	4.91	1.94	4.59	4.59	2.15
	22°C	27°C	6.27	3.36	1.42	6.05	3.28	1.54	5.83	3.20	1.67	5.59	3.11	1.81	5.14	2.90	1.96	4.75	2.74	2.16
		30°C	6.28	4.12	1.42	6.06	4.04	1.54	5.83	3.95	1.67	5.60	3.86	1.81	5.15	3.61	1.96	4.76	3.43	2.16
		33°C	6.29	4.83	1.42	6.07	4.74	1.54	5.85	4.64	1.67	5.62	4.54	1.81	5.17	4.26	1.97	4.79	4.05	2.17
		36°C	6.33	5.46	1.42	6.12	5.36	1.54	5.91	5.25	1.67	5.70	5.13	1.82	5.25	4.80	1.97	4.90	4.52	2.18
570	16°C	21°C	5.37	3.78	1.38	5.17	3.69	1.50	4.98	3.59	1.62	4.77	3.49	1.76	4.37	3.25	1.91	4.03	3.06	2.10
		24°C	5.40	4.60	1.39	5.20	4.49	1.50	5.01	4.38	1.62	4.81	4.27	1.76	4.41	3.98	1.91	4.08	3.75	2.10
		27°C	5.49	5.27	1.39	5.31	5.13	1.50	5.13	4.99	1.63	4.94	4.84	1.77	4.57	4.48	1.92	4.26	4.18	2.12
		30°C	5.76	5.76	1.40	5.59	5.59	1.52	5.42	5.42	1.65	5.24	5.24	1.79	4.85	4.85	1.94	4.53	4.53	2.14
	19°C	24°C	5.91	3.63	1.41	5.70	3.54	1.52	5.48	3.45	1.65	5.26	3.36	1.79	4.83	3.13	1.94	4.46	2.95	2.14
		27°C	5.93	4.20	1.41	5.72	4.10	1.52	5.50	4.01	1.65	5.28	3.91	1.79	4.85	3.66	1.94	4.48	3.46	2.14
		30°C	5.98	5.17	1.41	5.77	5.06	1.53	5.56	4.94	1.66	5.35	4.82	1.80	4.92	4.50	1.95	4.57	4.24	2.15
		33°C	6.11	6.11	1.42	5.93	5.93	1.54	5.75	5.75	1.67	5.56	5.56	1.81	5.15	5.15	1.97	4.81	4.81	2.17
	22°C	27°C	6.49	3.55	1.43	6.26	3.47	1.55	6.02	3.39	1.68	5.78	3.30	1.83	5.31	3.08	1.98	4.91	2.91	2.18
		30°C	6.50	4.38	1.43	6.27	4.30	1.55	6.03	4.20	1.68	5.79	4.11	1.83	5.32	3.85	1.98	4.92	3.65	2.18
		33°C	6.52	5.13	1.44	6.30	5.04	1.56	6.07	4.94	1.69	5.83	4.83	1.83	5.36	4.52	1.98	4.97	4.29	2.19
		36°C	6.58	5.79	1.44	6.38	5.69	1.56	6.16	5.56	1.69	5.93	5.43	1.84	5.48	5.06	1.99	5.11	4.76	2.20

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN60CXV1 - RN60CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
535	16°C	21°C	5.81	4.05	1.52	5.60	3.94	1.64	5.39	3.84	1.78	5.18	3.73	1.93	4.75	3.47	2.09	4.39	3.26	2.31
		24°C	5.82	4.85	1.52	5.61	4.74	1.64	5.40	4.63	1.78	5.19	4.51	1.93	4.76	4.21	2.09	4.41	3.98	2.31
		27°C	5.86	5.50	1.52	5.67	5.37	1.65	5.47	5.24	1.78	5.26	5.11	1.94	4.86	4.76	2.10	4.52	4.47	2.32
		30°C	6.04	6.04	1.53	5.87	5.87	1.66	5.69	5.69	1.80	5.51	5.51	1.95	5.11	5.11	2.12	4.78	4.78	2.34
	19°C	24°C	6.41	3.78	1.54	6.18	3.68	1.67	5.96	3.59	1.81	5.72	3.48	1.96	5.26	3.24	2.13	4.86	3.06	2.35
		27°C	6.41	4.32	1.54	6.19	4.23	1.67	5.96	4.13	1.81	5.72	4.03	1.96	5.26	3.77	2.13	4.87	3.57	2.35
		30°C	6.42	5.34	1.54	6.20	5.22	1.67	5.98	5.11	1.81	5.75	4.98	1.97	5.30	4.66	2.13	4.91	4.41	2.35
		33°C	6.50	6.50	1.55	6.29	6.29	1.68	6.08	6.08	1.82	5.87	5.87	1.97	5.44	5.44	2.14	5.08	5.08	2.37
	22°C	27°C	7.05	3.70	1.57	6.80	3.61	1.70	6.56	3.52	1.85	6.30	3.42	2.00	5.79	3.19	2.17	5.36	3.01	2.39
		30°C	7.05	4.51	1.57	6.81	4.41	1.70	6.56	4.31	1.85	6.30	4.21	2.00	5.80	3.94	2.17	5.36	3.74	2.39
		33°C	7.05	5.26	1.57	6.81	5.16	1.70	6.56	5.06	1.85	6.31	4.96	2.00	5.80	4.65	2.17	5.38	4.42	2.39
		36°C	7.08	5.97	1.57	6.84	5.85	1.71	6.61	5.73	1.85	6.37	5.60	2.01	5.87	5.25	2.18	5.46	4.98	2.40
660	16°C	21°C	6.04	4.22	1.53	5.83	4.11	1.66	5.60	4.00	1.80	5.38	3.89	1.95	4.93	3.62	2.11	4.55	3.41	2.33
		24°C	6.06	5.12	1.53	5.84	5.00	1.66	5.63	4.88	1.80	5.40	4.76	1.95	4.96	4.44	2.11	4.58	4.19	2.33
		27°C	6.14	5.82	1.54	5.93	5.68	1.66	5.72	5.54	1.80	5.52	5.37	1.96	5.10	4.99	2.12	4.75	4.67	2.34
		30°C	6.39	6.39	1.55	6.21	6.21	1.68	6.02	6.02	1.82	5.82	5.82	1.97	5.39	5.39	2.15	5.04	5.04	2.37
	19°C	24°C	6.66	3.99	1.56	6.42	3.89	1.69	6.18	3.79	1.83	5.93	3.69	1.98	5.45	3.44	2.15	5.03	3.24	2.37
		27°C	6.67	4.60	1.56	6.43	4.50	1.69	6.19	4.40	1.83	5.94	4.29	1.98	5.46	4.01	2.15	5.05	3.80	2.37
		30°C	6.70	5.68	1.56	6.47	5.55	1.69	6.24	5.43	1.83	6.00	5.30	1.99	5.52	4.95	2.16	5.12	4.68	2.38
		33°C	6.81	6.81	1.57	6.61	6.61	1.70	6.40	6.40	1.84	6.18	6.18	2.00	5.73	5.73	2.17	5.35	5.35	2.40
	22°C	27°C	7.32	3.91	1.59	7.06	3.82	1.72	6.80	3.72	1.86	6.53	3.62	2.02	6.00	3.38	2.19	5.55	3.19	2.41
		30°C	7.33	4.80	1.59	7.07	4.70	1.72	6.80	4.59	1.86	6.53	4.49	2.02	6.00	4.20	2.19	5.55	3.99	2.42
		33°C	7.34	5.62	1.59	7.08	5.52	1.72	6.82	5.40	1.87	6.55	5.29	2.02	6.03	4.96	2.20	5.59	4.71	2.42
		36°C	7.38	6.36	1.59	7.15	6.24	1.72	6.90	6.11	1.87	6.64	5.96	2.03	6.13	5.58	2.20	5.72	5.27	2.43
690	16°C	21°C	6.27	4.40	1.55	6.04	4.29	1.67	5.81	4.18	1.81	5.56	4.06	1.96	5.10	3.78	2.13	4.70	3.56	2.35
		24°C	6.30	5.35	1.55	6.07	5.22	1.67	5.84	5.10	1.81	5.61	4.96	1.97	5.15	4.63	2.13	4.76	4.37	2.35
		27°C	6.40	6.13	1.55	6.19	5.97	1.68	5.98	5.81	1.82	5.77	5.63	1.98	5.33	5.21	2.14	4.97	4.87	2.37
		30°C	6.72	6.72	1.57	6.52	6.52	1.70	6.32	6.32	1.84	6.12	6.12	2.00	5.66	5.66	2.17	5.29	5.29	2.40
	19°C	24°C	6.90	4.22	1.57	6.65	4.12	1.70	6.40	4.01	1.84	6.14	3.91	2.00	5.63	3.64	2.17	5.20	3.43	2.39
		27°C	6.92	4.89	1.57	6.67	4.78	1.70	6.42	4.66	1.84	6.16	4.55	2.00	5.66	4.26	2.17	5.23	4.03	2.39
		30°C	6.98	6.01	1.58	6.73	5.88	1.71	6.49	5.75	1.85	6.24	5.61	2.00	5.74	5.24	2.18	5.33	4.93	2.40
		33°C	7.13	7.13	1.58	6.92	6.92	1.72	6.70	6.70	1.86	6.48	6.48	2.02	6.01	6.01	2.20	5.62	5.62	2.42
	22°C	27°C	7.57	4.13	1.60	7.30	4.04	1.73	7.03	3.94	1.88	6.74	3.84	2.04	6.19	3.58	2.21	5.72	3.38	2.43
		30°C	7.58	5.09	1.60	7.31	5.00	1.74	7.04	4.89	1.88	6.76	4.78	2.04	6.21	4.47	2.21	5.74	4.24	2.44
		33°C	7.61	5.97	1.60	7.35	5.87	1.74	7.08	5.74	1.88	6.80	5.62	2.04	6.26	5.26	2.22	5.80	5.00	2.44
		36°C	7.68	6.74	1.61	7.44	6.62	1.74	7.18	6.47	1.89	6.92	6.31	2.05	6.40	5.89	2.23	5.97	5.54	2.46

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN60CXV1 - RN60CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
535	16°C	21°C	6.32	4.40	1.73	6.09	4.29	1.87	5.87	4.17	2.02	5.63	4.05	2.19	5.17	3.77	2.38	4.77	3.55	2.62
		24°C	6.33	5.27	1.73	6.10	5.15	1.87	5.88	5.03	2.02	5.64	4.91	2.20	5.18	4.58	2.38	4.79	4.32	2.63
		27°C	6.38	5.98	1.73	6.16	5.84	1.87	5.95	5.70	2.03	5.72	5.56	2.20	5.28	5.17	2.39	4.91	4.86	2.64
		30°C	6.57	6.57	1.74	6.38	6.38	1.88	6.19	6.19	2.04	5.99	5.99	2.22	5.55	5.55	2.41	5.20	5.20	2.66
	19°C	24°C	6.97	4.11	1.76	6.72	4.01	1.90	6.48	3.90	2.06	6.22	3.79	2.23	5.72	3.53	2.42	5.29	3.32	2.67
		27°C	6.97	4.70	1.76	6.73	4.60	1.90	6.48	4.49	2.06	6.23	4.38	2.23	5.72	4.10	2.42	5.29	3.88	2.67
		30°C	6.98	5.80	1.76	6.74	5.68	1.90	6.50	5.56	2.06	6.26	5.42	2.24	5.76	5.07	2.43	5.35	4.80	2.67
		33°C	7.07	7.07	1.76	6.84	6.84	1.91	6.62	6.62	2.07	6.39	6.39	2.24	5.91	5.91	2.44	5.53	5.53	2.69
	22°C	27°C	7.67	4.02	1.79	7.40	3.93	1.94	7.13	3.83	2.10	6.85	3.72	2.28	6.30	3.47	2.47	5.83	3.27	2.72
		30°C	7.67	4.90	1.79	7.40	4.80	1.94	7.13	4.69	2.10	6.85	4.58	2.28	6.30	4.29	2.47	5.84	4.06	2.72
		33°C	7.67	5.73	1.79	7.41	5.62	1.94	7.14	5.51	2.10	6.86	5.39	2.28	6.31	5.06	2.47	5.85	4.81	2.72
		36°C	7.70	6.49	1.79	7.44	6.36	1.94	7.19	6.23	2.10	6.92	6.09	2.28	6.39	5.71	2.48	5.94	5.42	2.73
660	16°C	21°C	6.57	4.59	1.74	6.34	4.47	1.89	6.10	4.36	2.04	5.85	4.23	2.21	5.37	3.94	2.40	4.95	3.71	2.65
		24°C	6.59	5.58	1.74	6.36	5.44	1.89	6.12	5.31	2.04	5.87	5.18	2.22	5.39	4.83	2.40	4.99	4.56	2.65
		27°C	6.67	6.33	1.75	6.45	6.18	1.89	6.23	6.03	2.05	6.00	5.85	2.22	5.54	5.43	2.41	5.16	5.08	2.66
		30°C	6.95	6.95	1.76	6.75	6.75	1.91	6.54	6.54	2.07	6.33	6.33	2.25	5.87	5.87	2.44	5.48	5.48	2.69
	19°C	24°C	7.24	4.35	1.77	6.98	4.24	1.92	6.72	4.13	2.08	6.45	4.01	2.25	5.93	3.74	2.44	5.47	3.52	2.69
		27°C	7.26	5.00	1.77	7.00	4.89	1.92	6.73	4.78	2.08	6.46	4.67	2.25	5.94	4.37	2.45	5.49	4.13	2.69
		30°C	7.29	6.17	1.77	7.04	6.04	1.92	6.78	5.91	2.08	6.52	5.76	2.26	6.01	5.39	2.45	5.57	5.09	2.70
		33°C	7.41	7.41	1.78	7.19	7.19	1.93	6.96	6.96	2.09	6.73	6.73	2.27	6.23	6.23	2.47	5.82	5.82	2.73
	22°C	27°C	7.96	4.25	1.80	7.68	4.15	1.95	7.39	4.05	2.12	7.10	3.94	2.30	6.52	3.67	2.49	6.03	3.47	2.74
		30°C	7.97	5.22	1.81	7.69	5.11	1.96	7.40	5.00	2.12	7.11	4.88	2.30	6.53	4.57	2.49	6.04	4.34	2.75
		33°C	7.98	6.12	1.81	7.70	6.00	1.96	7.42	5.88	2.12	7.13	5.75	2.30	6.56	5.40	2.50	6.08	5.12	2.75
		36°C	8.03	6.92	1.81	7.77	6.78	1.96	7.50	6.64	2.13	7.23	6.49	2.31	6.67	6.07	2.50	6.22	5.73	2.76
690	16°C	21°C	6.82	4.79	1.76	6.57	4.67	1.90	6.31	4.55	2.06	6.05	4.42	2.23	5.55	4.12	2.42	5.12	3.87	2.67
		24°C	6.85	5.82	1.76	6.60	5.68	1.90	6.35	5.55	2.06	6.10	5.40	2.23	5.60	5.04	2.42	5.17	4.75	2.67
		27°C	6.96	6.67	1.76	6.73	6.50	1.91	6.51	6.32	2.07	6.27	6.12	2.25	5.80	5.67	2.44	5.40	5.30	2.69
		30°C	7.31	7.31	1.78	7.10	7.10	1.93	6.88	6.88	2.09	6.65	6.65	2.27	6.16	6.16	2.47	5.75	5.75	2.72
	19°C	24°C	7.50	4.60	1.79	7.23	4.48	1.93	6.96	4.37	2.10	6.67	4.25	2.27	6.12	3.96	2.46	5.65	3.74	2.71
		27°C	7.52	5.32	1.79	7.25	5.20	1.94	6.98	5.07	2.10	6.70	4.95	2.27	6.15	4.63	2.47	5.69	4.38	2.72
		30°C	7.59	6.54	1.79	7.32	6.40	1.94	7.06	6.25	2.10	6.79	6.10	2.28	6.25	5.70	2.47	5.80	5.37	2.73
		33°C	7.75	7.75	1.80	7.52	7.52	1.95	7.29	7.29	2.12	7.05	7.05	2.30	6.53	6.53	2.50	6.11	6.11	2.76
	22°C	27°C	8.23	4.50	1.82	7.94	4.40	1.97	7.64	4.29	2.14	7.33	4.17	2.32	6.74	3.90	2.51	6.23	3.68	2.77
		30°C	8.25	5.54	1.82	7.96	5.44	1.97	7.66	5.32	2.14	7.35	5.20	2.32	6.75	4.87	2.51	6.24	4.61	2.77
		33°C	8.28	6.50	1.82	7.99	6.38	1.98	7.70	6.25	2.14	7.40	6.11	2.32	6.80	5.73	2.52	6.30	5.44	2.77
		36°C	8.35	7.33	1.83	8.09	7.20	1.98	7.81	7.04	2.15	7.53	6.87	2.33	6.96	6.41	2.53	6.49	6.03	2.79

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN71CXV1 - RR71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
710	16°C	21°C	7.19	5.09	2.20	6.93	4.96	2.38	6.68	4.83	2.57	6.41	4.69	2.79	5.88	4.36	3.03	5.43	4.10	3.34
		24°C	7.20	6.10	2.20	6.94	5.96	2.38	6.68	5.82	2.57	6.42	5.67	2.79	5.90	5.30	3.03	5.45	5.00	3.34
		27°C	7.25	6.91	2.20	7.01	6.76	2.38	6.77	6.60	2.58	6.51	6.43	2.80	6.01	5.98	3.04	5.59	5.59	3.35
		30°C	7.48	7.48	2.21	7.26	7.26	2.39	7.04	7.04	2.60	6.82	6.82	2.82	6.32	6.32	3.06	5.91	5.91	3.38
	19°C	24°C	7.93	4.75	2.23	7.65	4.63	2.41	7.37	4.51	2.62	7.08	4.38	2.84	6.50	4.08	3.08	6.01	3.84	3.39
		27°C	7.93	5.44	2.23	7.65	5.32	2.42	7.37	5.19	2.62	7.08	5.07	2.84	6.51	4.74	3.08	6.02	4.49	3.39
		30°C	7.95	6.71	2.23	7.67	6.57	2.42	7.40	6.42	2.62	7.12	6.27	2.84	6.55	5.86	3.08	6.08	5.55	3.40
		33°C	8.04	8.04	2.24	7.78	7.78	2.42	7.53	7.53	2.63	7.27	7.27	2.85	6.73	6.73	3.10	6.29	6.29	3.42
	22°C	27°C	8.72	4.65	2.27	8.42	4.54	2.46	8.11	4.43	2.67	7.80	4.30	2.89	7.17	4.01	3.14	6.64	3.78	3.46
		30°C	8.72	5.67	2.27	8.42	5.55	2.46	8.11	5.42	2.67	7.80	5.29	2.89	7.17	4.96	3.14	6.64	4.70	3.46
		33°C	8.73	6.62	2.27	8.43	6.50	2.46	8.12	6.37	2.67	7.80	6.24	2.89	7.18	5.85	3.14	6.66	5.56	3.46
		36°C	8.76	7.51	2.27	8.47	7.36	2.46	8.17	7.21	2.67	7.88	7.05	2.90	7.26	6.61	3.15	6.75	6.27	3.47
770	16°C	21°C	7.48	5.31	2.22	7.21	5.17	2.40	6.93	5.03	2.59	6.65	4.89	2.81	6.10	4.55	3.05	5.63	4.29	3.36
		24°C	7.50	6.44	2.22	7.23	6.29	2.40	6.96	6.14	2.60	6.68	5.99	2.82	6.13	5.59	3.05	5.67	5.27	3.37
		27°C	7.59	7.32	2.22	7.33	7.15	2.40	7.08	6.96	2.60	6.83	6.76	2.83	6.30	6.27	3.07	5.87	5.87	3.39
		30°C	7.91	7.91	2.24	7.68	7.68	2.42	7.44	7.44	2.63	7.20	7.20	2.85	6.67	6.67	3.10	6.24	6.24	3.42
	19°C	24°C	8.24	5.02	2.25	7.94	4.89	2.44	7.65	4.77	2.64	7.34	4.64	2.86	6.74	4.32	3.11	6.23	4.07	3.42
		27°C	8.25	5.78	2.25	7.96	5.66	2.44	7.66	5.53	2.64	7.35	5.40	2.86	6.75	5.04	3.11	6.24	4.78	3.42
		30°C	8.29	7.13	2.26	8.00	6.98	2.44	7.72	6.82	2.65	7.42	6.66	2.87	6.83	6.22	3.11	6.34	5.88	3.43
		33°C	8.43	8.43	2.26	8.17	8.17	2.45	7.91	7.91	2.66	7.65	7.65	2.89	7.08	7.08	3.14	6.62	6.62	3.46
	22°C	27°C	9.05	4.92	2.29	8.73	4.80	2.48	8.41	4.68	2.69	8.07	4.55	2.92	7.42	4.25	3.17	6.86	4.01	3.49
		30°C	9.06	6.03	2.29	8.74	5.91	2.49	8.42	5.78	2.69	8.08	5.64	2.92	7.43	5.28	3.17	6.87	5.01	3.49
		33°C	9.08	7.07	2.29	8.76	6.93	2.49	8.44	6.79	2.70	8.11	6.65	2.92	7.46	6.24	3.17	6.91	5.92	3.49
		36°C	9.13	7.99	2.30	8.84	7.84	2.49	8.53	7.68	2.70	8.22	7.50	2.93	7.58	7.02	3.18	7.07	6.62	3.51
810	16°C	21°C	7.75	5.54	2.23	7.47	5.40	2.42	7.18	5.25	2.62	6.88	5.11	2.84	6.31	4.76	3.08	5.82	4.48	3.39
		24°C	7.79	6.73	2.24	7.51	6.57	2.42	7.23	6.41	2.62	6.94	6.24	2.84	6.37	5.82	3.08	5.88	5.49	3.40
		27°C	7.92	7.71	2.24	7.66	7.51	2.43	7.40	7.30	2.63	7.14	7.08	2.85	6.59	6.55	3.10	6.14	6.12	3.42
		30°C	8.31	8.31	2.26	8.07	8.07	2.45	7.82	7.82	2.66	7.57	7.57	2.89	7.01	7.01	3.14	6.54	6.54	3.46
	19°C	24°C	8.53	5.31	2.27	8.22	5.18	2.46	7.91	5.05	2.66	7.59	4.91	2.89	6.96	4.58	3.13	6.43	4.32	3.45
		27°C	8.56	6.14	2.27	8.25	6.00	2.46	7.94	5.86	2.67	7.62	5.72	2.89	7.00	5.35	3.13	6.47	5.06	3.45
		30°C	8.63	7.56	2.28	8.32	7.40	2.46	8.02	7.23	2.67	7.72	7.05	2.90	7.11	6.58	3.14	6.60	6.20	3.47
		33°C	8.82	8.82	2.29	8.56	8.56	2.48	8.29	8.29	2.69	8.02	8.02	2.92	7.43	7.43	3.17	6.95	6.95	3.50
	22°C	27°C	9.36	5.20	2.31	9.03	5.08	2.51	8.69	4.95	2.72	8.34	4.82	2.94	7.66	4.50	3.19	7.08	4.25	3.52
		30°C	9.38	6.40	2.31	9.05	6.28	2.51	8.71	6.15	2.72	8.36	6.01	2.95	7.68	5.63	3.20	7.10	5.33	3.52
		33°C	9.41	7.51	2.32	9.09	7.38	2.51	8.75	7.22	2.72	8.41	7.06	2.95	7.74	6.62	3.20	7.17	6.28	3.53
		36°C	9.50	8.48	2.32	9.20	8.32	2.52	8.88	8.14	2.73	8.56	7.94	2.96	7.91	7.40	3.22	7.38	6.97	3.55
850	16°C	21°C	7.75	5.58	2.26	7.48	5.45	2.43	7.20	5.32	2.63	6.92	5.18	2.85	6.36	4.82	3.11	5.87	4.54	3.46
		24°C	7.78	6.83	2.26	7.50	6.68	2.43	7.23	6.54	2.63	6.95	6.38	2.86	6.39	5.97	3.11	5.92	5.63	3.46
		27°C	7.90	7.83	2.26	7.66	7.63	2.44	7.42	7.42	2.64	7.17	7.17	2.87	6.64	6.64	3.13	6.21	6.21	3.48
		30°C	8.33	8.33	2.28	8.10	8.10	2.46	7.86	7.86	2.67	7.62	7.62	2.90	7.07	7.07	3.16	6.62	6.62	3.52
	19°C	24°C	8.53	5.35	2.29	8.23	5.23	2.47	7.94	5.10	2.67	7.63	4.97	2.90	7.02	4.64	3.16	6.50	4.39	3.51
		27°C	8.55	6.21	2.29	8.25	6.08	2.47	7.96	5.95	2.67	7.65	5.82	2.90	7.04	5.46	3.16	6.52	5.18	3.51
		30°C	8.59	7.71	2.30	8.31	7.55	2.47	8.03	7.39	2.68	7.74	7.21	2.91	7.14	6.74	3.17	6.66	6.35	3.52
		33°C	8.82	8.82	2.31	8.57	8.57	2.49	8.33	8.33	2.70	8.08	8.08	2.93	7.50	7.50	3.20	7.04	7.04	3.55
	22°C	27°C	9.37	5.25	2.34	9.05	5.13	2.52	8.73	5.01	2.72	8.40	4.89	2.95	7.74	4.57	3.21	7.17	4.32	3.56
		30°C	9.39	6.49	2.34	9.07	6.36	2.52	8.75	6.23	2.72	8.42	6.10	2.96	7.75	5.72	3.22	7.19	5.44	3.57
		33°C	9.42	7.65	2.34	9.09	7.52	2.52	8.77	7.38	2.73	8.45	7.24	2.96	7.78	6.80	3.22	7.23	6.46	3.57
		36°C	9.50	8.67	2.34	9.20	8.50	2.53	8.91	8.32	2.73	8.62	8.12	2.97	7.98	7.59	3.23	7.47	7.16	3.59

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN71CXV1 - RR71CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
710	16°C	21°C	7.46	5.28	2.19	7.20	5.14	2.37	6.93	5.00	2.56	6.65	4.86	2.78	6.11	4.52	3.02	5.64	4.25	3.32
		24°C	7.47	6.32	2.19	7.21	6.18	2.37	6.94	6.03	2.56	6.66	5.88	2.78	6.12	5.49	3.02	5.66	5.18	3.33
		27°C	7.53	7.17	2.19	7.28	7.00	2.37	7.02	6.84	2.57	6.76	6.66	2.79	6.24	6.20	3.03	5.80	5.80	3.34
		30°C	7.76	7.76	2.20	7.54	7.54	2.39	7.31	7.31	2.59	7.07	7.07	2.81	6.56	6.56	3.05	6.14	6.14	3.37
	19°C	24°C	8.23	4.93	2.22	7.94	4.80	2.41	7.65	4.68	2.61	7.35	4.54	2.83	6.75	4.23	3.07	6.24	3.99	3.38
		27°C	8.24	5.64	2.22	7.95	5.51	2.41	7.65	5.39	2.61	7.35	5.25	2.83	6.76	4.92	3.07	6.25	4.66	3.38
		30°C	8.25	6.96	2.22	7.96	6.81	2.41	7.68	6.66	2.61	7.39	6.50	2.83	6.80	6.08	3.07	6.31	5.75	3.39
		33°C	8.35	8.35	2.23	8.07	8.07	2.41	7.81	7.81	2.62	7.55	7.55	2.84	6.98	6.98	3.09	6.53	6.53	3.41
	22°C	27°C	9.05	4.82	2.26	8.74	4.71	2.45	8.42	4.59	2.66	8.09	4.46	2.88	7.44	4.16	3.13	6.89	3.92	3.45
		30°C	9.06	5.88	2.26	8.74	5.75	2.45	8.42	5.62	2.66	8.09	5.49	2.88	7.44	5.14	3.13	6.89	4.87	3.45
		33°C	9.06	6.87	2.26	8.75	6.73	2.45	8.43	6.60	2.66	8.10	6.46	2.88	7.45	6.07	3.13	6.91	5.77	3.45
		36°C	9.09	7.79	2.27	8.79	7.63	2.46	8.49	7.47	2.66	8.18	7.31	2.89	7.54	6.85	3.14	7.01	6.50	3.46
770	16°C	21°C	7.76	5.50	2.21	7.48	5.36	2.39	7.20	5.22	2.59	6.90	5.07	2.80	6.33	4.72	3.04	5.84	4.44	3.35
		24°C	7.78	6.68	2.21	7.50	6.52	2.39	7.22	6.37	2.59	6.93	6.21	2.81	6.37	5.79	3.04	5.89	5.46	3.36
		27°C	7.88	7.59	2.21	7.61	7.41	2.40	7.35	7.22	2.60	7.09	7.00	2.82	6.54	6.50	3.06	6.10	6.08	3.37
		30°C	8.21	8.21	2.23	7.97	7.97	2.42	7.73	7.73	2.62	7.48	7.48	2.84	6.93	6.93	3.09	6.47	6.47	3.41
	19°C	24°C	8.55	5.21	2.24	8.25	5.07	2.43	7.94	4.94	2.63	7.62	4.81	2.85	7.00	4.48	3.09	6.46	4.22	3.41
		27°C	8.57	6.00	2.24	8.26	5.86	2.43	7.95	5.73	2.63	7.63	5.59	2.85	7.01	5.23	3.10	6.48	4.95	3.41
		30°C	8.61	7.40	2.25	8.31	7.24	2.43	8.01	7.07	2.64	7.70	6.90	2.86	7.09	6.45	3.10	6.58	6.10	3.42
		33°C	8.75	8.75	2.25	8.48	8.48	2.44	8.21	8.21	2.65	7.94	7.94	2.88	7.35	7.35	3.13	6.88	6.88	3.45
	22°C	27°C	9.39	5.10	2.29	9.06	4.98	2.48	8.73	4.85	2.68	8.38	4.72	2.91	7.70	4.40	3.16	7.12	4.15	3.48
		30°C	9.41	6.25	2.29	9.07	6.12	2.48	8.74	5.99	2.68	8.39	5.85	2.91	7.71	5.48	3.16	7.13	5.20	3.48
		33°C	9.42	7.33	2.29	9.10	7.19	2.48	8.76	7.04	2.69	8.42	6.89	2.91	7.74	6.46	3.16	7.18	6.14	3.48
		36°C	9.48	8.28	2.29	9.17	8.13	2.48	8.85	7.96	2.69	8.53	7.77	2.92	7.87	7.27	3.17	7.34	6.86	3.50
810	16°C	21°C	8.05	5.74	2.23	7.75	5.59	2.41	7.45	5.45	2.61	7.15	5.29	2.83	6.55	4.93	3.06	6.04	4.64	3.38
		24°C	8.09	6.98	2.23	7.80	6.81	2.41	7.50	6.64	2.61	7.20	6.47	2.83	6.61	6.04	3.07	6.11	5.69	3.38
		27°C	8.22	7.99	2.23	7.95	7.79	2.42	7.68	7.57	2.62	7.41	7.33	2.84	6.84	6.79	3.09	6.38	6.34	3.41
		30°C	8.63	8.63	2.25	8.38	8.38	2.44	8.12	8.12	2.65	7.85	7.85	2.88	7.27	7.27	3.12	6.79	6.79	3.45
	19°C	24°C	8.86	5.51	2.26	8.54	5.37	2.45	8.21	5.23	2.65	7.88	5.09	2.88	7.23	4.75	3.12	6.67	4.48	3.44
		27°C	8.88	6.37	2.26	8.56	6.22	2.45	8.24	6.08	2.66	7.91	5.93	2.88	7.26	5.55	3.12	6.71	5.25	3.44
		30°C	8.96	7.84	2.27	8.64	7.67	2.46	8.33	7.49	2.66	8.01	7.31	2.89	7.38	6.82	3.13	6.85	6.43	3.45
		33°C	9.15	9.15	2.28	8.88	8.88	2.47	8.61	8.61	2.68	8.33	8.33	2.91	7.71	7.71	3.16	7.21	7.21	3.49
	22°C	27°C	9.72	5.39	2.31	9.37	5.27	2.50	9.02	5.14	2.71	8.66	5.00	2.93	7.95	4.67	3.18	7.35	4.41	3.50
		30°C	9.74	6.64	2.31	9.39	6.51	2.50	9.04	6.37	2.71	8.68	6.23	2.94	7.97	5.83	3.18	7.37	5.53	3.51
		33°C	9.77	7.78	2.31	9.44	7.65	2.50	9.09	7.49	2.71	8.73	7.32	2.94	8.03	6.86	3.19	7.44	6.51	3.51
		36°C	9.86	8.79	2.31	9.55	8.63	2.51	9.22	8.44	2.72	8.89	8.23	2.95	8.21	7.68	3.21	7.66	7.23	3.54
850	16°C	21°C	8.04	5.79	2.25	7.76	5.65	2.42	7.48	5.51	2.62	7.18	5.37	2.84	6.60	5.00	3.10	6.10	4.71	3.44
		24°C	8.07	7.08	2.25	7.78	6.93	2.42	7.50	6.78	2.62	7.21	6.61	2.85	6.63	6.19	3.10	6.14	5.84	3.45
		27°C	8.21	8.12	2.26	7.95	7.91	2.43	7.70	7.70	2.63	7.44	7.44	2.86	6.89	6.89	3.12	6.44	6.44	3.47
		30°C	8.65	8.65	2.28	8.40	8.40	2.45	8.16	8.16	2.66	7.91	7.91	2.89	7.34	7.34	3.15	6.87	6.87	3.51
	19°C	24°C	8.85	5.55	2.29	8.55	5.42	2.46	8.24	5.29	2.66	7.92	5.15	2.89	7.29	4.81	3.15	6.74	4.55	3.50
		27°C	8.88	6.44	2.29	8.57	6.30	2.46	8.26	6.17	2.66	7.94	6.03	2.89	7.31	5.66	3.15	6.76	5.37	3.50
		30°C	8.92	8.00	2.29	8.62	7.83	2.47	8.33	7.66	2.67	8.03	7.48	2.90	7.42	6.99	3.16	6.91	6.59	3.51
		33°C	9.16	9.16	2.30	8.90	8.90	2.48	8.65	8.65	2.69	8.39	8.39	2.92	7.79	7.79	3.19	7.30	7.30	3.54
	22°C	27°C	9.73	5.44	2.33	9.39	5.32	2.51	9.07	5.20	2.71	8.72	5.07	2.94	8.03	4.74	3.20	7.44	4.48	3.55
		30°C	9.75	6.73	2.33	9.42	6.60	2.51	9.08	6.46	2.71	8.74	6.32	2.95	8.05	5.93	3.21	7.46	5.64	3.55
		33°C	9.77	7.93	2.33	9.44	7.79	2.51	9.10	7.65	2.72	8.77	7.50	2.95	8.08	7.05	3.21	7.51	6.70	3.56
		36°C	9.87	8.99	2.34	9.55	8.81	2.52	9.24	8.63	2.72	8.94	8.42	2.96	8.28	7.87	3.22	7.75	7.43	3.58

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN100CXV1 - RR90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	8.85	5.84	2.50	8.53	5.69	2.70	8.22	5.54	2.93	7.89	5.38	3.17	7.24	5.00	3.44	6.69	4.71	3.80
		24°C	8.86	7.00	2.50	8.54	6.84	2.70	8.23	6.68	2.93	7.90	6.51	3.18	7.26	6.08	3.45	6.71	5.74	3.80
		27°C	8.93	7.93	2.50	8.63	7.75	2.71	8.33	7.57	2.93	8.01	7.37	3.18	7.39	6.86	3.46	6.88	6.45	3.81
		30°C	9.20	9.20	2.52	8.94	8.94	2.72	8.67	8.67	2.95	8.39	8.39	3.21	7.77	7.77	3.49	7.27	7.27	3.85
	19°C	24°C	9.76	5.45	2.54	9.41	5.32	2.75	9.07	5.17	2.98	8.71	5.03	3.23	8.00	4.68	3.50	7.40	4.41	3.86
		27°C	9.76	6.24	2.54	9.42	6.10	2.75	9.07	5.96	2.98	8.72	5.82	3.23	8.01	5.44	3.51	7.41	5.15	3.86
		30°C	9.78	7.70	2.54	9.44	7.54	2.75	9.11	7.37	2.98	8.76	7.19	3.23	8.07	6.73	3.51	7.48	6.36	3.87
		33°C	9.89	9.89	2.55	9.57	9.57	2.76	9.26	9.26	2.99	8.95	8.95	3.25	8.28	8.28	3.53	7.74	7.74	3.89
	22°C	27°C	10.73	5.34	2.59	10.36	5.21	2.80	9.98	5.08	3.04	9.59	4.94	3.29	8.82	4.60	3.57	8.17	4.34	3.94
		30°C	10.74	6.51	2.59	10.37	6.37	2.80	9.99	6.22	3.04	9.60	6.07	3.29	8.83	5.69	3.57	8.17	5.39	3.94
		33°C	10.74	7.60	2.59	10.37	7.45	2.80	9.99	7.31	3.04	9.60	7.15	3.29	8.84	6.72	3.57	8.19	6.38	3.94
		36°C	10.78	8.62	2.59	10.42	8.44	2.80	10.06	8.27	3.04	9.69	8.08	3.30	8.94	7.58	3.58	8.31	7.19	3.95
1050	16°C	21°C	9.20	6.09	2.52	8.87	5.93	2.73	8.53	5.78	2.95	8.19	5.61	3.20	7.51	5.23	3.47	6.93	4.92	3.83
		24°C	9.23	7.39	2.52	8.90	7.22	2.73	8.57	7.05	2.96	8.22	6.87	3.21	7.55	6.41	3.48	6.98	6.05	3.83
		27°C	9.34	8.40	2.53	9.03	8.20	2.74	8.72	7.99	2.97	8.40	7.75	3.22	7.76	7.20	3.49	7.23	6.74	3.86
		30°C	9.73	9.73	2.55	9.45	9.45	2.76	9.16	9.16	2.99	8.86	8.86	3.25	8.21	8.21	3.53	7.68	7.68	3.90
	19°C	24°C	10.14	5.76	2.56	9.78	5.62	2.77	9.41	5.47	3.01	9.03	5.32	3.26	8.29	4.96	3.54	7.66	4.67	3.90
		27°C	10.16	6.64	2.56	9.79	6.49	2.78	9.43	6.34	3.01	9.05	6.19	3.26	8.31	5.79	3.54	7.69	5.48	3.90
		30°C	10.20	8.19	2.57	9.85	8.01	2.78	9.50	7.83	3.01	9.13	7.64	3.27	8.41	7.14	3.55	7.80	6.75	3.91
		33°C	10.37	10.37	2.58	10.06	10.06	2.79	9.74	9.74	3.03	9.41	9.41	3.29	8.72	8.72	3.57	8.15	8.15	3.94
	22°C	27°C	11.14	5.64	2.61	10.75	5.51	2.83	10.35	5.37	3.07	9.94	5.23	3.32	9.13	4.87	3.61	8.45	4.60	3.97
		30°C	11.15	6.92	2.61	10.76	6.78	2.83	10.36	6.63	3.07	9.95	6.47	3.33	9.14	6.06	3.61	8.46	5.75	3.97
		33°C	11.17	8.11	2.61	10.78	7.96	2.83	10.39	7.80	3.07	9.98	7.63	3.33	9.18	7.16	3.61	8.51	6.80	3.98
		36°C	11.24	9.17	2.62	10.88	9.00	2.84	10.50	8.81	3.08	10.12	8.61	3.34	9.33	8.05	3.62	8.70	7.60	4.00
1160	16°C	21°C	9.54	6.36	2.54	9.19	6.19	2.75	8.84	6.03	2.98	8.47	5.86	3.23	7.77	5.46	3.50	7.16	5.14	3.86
		24°C	9.59	7.72	2.55	9.24	7.54	2.75	8.90	7.36	2.98	8.54	7.16	3.23	7.84	6.68	3.51	7.24	6.30	3.86
		27°C	9.75	8.85	2.55	9.43	8.62	2.76	9.11	8.38	2.99	8.78	8.12	3.25	8.12	7.52	3.53	7.56	7.02	3.89
		30°C	10.23	10.23	2.58	9.94	9.94	2.79	9.63	9.63	3.03	9.31	9.31	3.29	8.62	8.62	3.57	8.05	8.05	3.94
	19°C	24°C	10.50	6.10	2.59	10.12	5.95	2.80	9.74	5.79	3.03	9.34	5.64	3.29	8.57	5.25	3.56	7.92	4.96	3.93
		27°C	10.53	7.05	2.59	10.16	6.89	2.80	9.77	6.73	3.03	9.38	6.57	3.29	8.61	6.14	3.57	7.96	5.81	3.93
		30°C	10.62	8.68	2.59	10.25	8.49	2.81	9.88	8.30	3.04	9.50	8.09	3.30	8.75	7.55	3.58	8.12	7.12	3.95
		33°C	10.85	10.85	2.60	10.53	10.53	2.82	10.21	10.21	3.06	9.87	9.87	3.33	9.15	9.15	3.61	8.55	8.55	3.99
	22°C	27°C	11.53	5.96	2.63	11.12	5.83	2.85	10.70	5.69	3.09	10.27	5.54	3.35	9.43	5.17	3.64	8.72	4.88	4.00
		30°C	11.55	7.35	2.63	11.14	7.21	2.85	10.72	7.06	3.09	10.29	6.90	3.35	9.45	6.46	3.64	8.74	6.12	4.01
		33°C	11.59	8.62	2.64	11.19	8.47	2.86	10.78	8.29	3.10	10.35	8.10	3.36	9.53	7.60	3.64	8.82	7.21	4.01
		36°C	11.69	9.73	2.64	11.33	9.55	2.87	10.93	9.34	3.11	10.54	9.11	3.37	9.74	8.50	3.66	9.09	8.00	4.04
1280	16°C	21°C	9.54	6.41	2.57	9.20	6.26	2.76	8.87	6.10	2.99	8.52	5.94	3.25	7.83	5.54	3.54	7.23	5.22	3.93
		24°C	9.57	7.84	2.57	9.23	7.67	2.77	8.90	7.50	2.99	8.56	7.32	3.25	7.87	6.85	3.54	7.29	6.46	3.94
		27°C	9.73	8.99	2.58	9.43	8.76	2.78	9.13	8.53	3.00	8.82	8.28	3.27	8.18	7.82	3.56	7.64	7.38	3.97
		30°C	10.25	10.25	2.60	9.97	9.97	2.80	9.68	9.68	3.04	9.38	9.38	3.30	8.70	8.70	3.60	8.14	8.14	4.00
	19°C	24°C	10.50	6.15	2.61	10.13	6.00	2.81	9.77	5.86	3.04	9.40	5.71	3.30	8.64	5.33	3.60	8.00	5.04	3.99
		27°C	10.53	7.13	2.61	10.16	6.98	2.81	9.80	6.83	3.04	9.42	6.68	3.30	8.67	6.26	3.60	8.02	5.95	4.00
		30°C	10.58	8.86	2.61	10.23	8.67	2.82	9.88	8.48	3.05	9.53	8.28	3.31	8.79	7.74	3.61	8.19	7.30	4.01
		33°C	10.86	10.86	2.63	10.55	10.55	2.83	10.26	10.26	3.07	9.95	9.95	3.34	9.24	9.24	3.64	8.66	8.66	4.05
	22°C	27°C	11.54	6.03	2.66	11.14	5.89	2.87	10.75	5.75	3.10	10.34	5.61	3.36	9.52	5.24	3.66	8.83	4.96	4.06
		30°C	11.56	7.46	2.66	11.17	7.30	2.87	10.77	7.15	3.10	10.37	7.00	3.36	9.54	6.56	3.66	8.85	6.24	4.06
		33°C	11.59	8.78	2.66	11.19	8.63	2.87	10.80	8.48	3.10	10.40	8.31	3.37	9.58	7.81	3.66	8.91	7.42	4.06
		36°C	11.70	9.96	2.67	11.33	9.76	2.88	10.96	9.55	3.11	10.61	9.32	3.38	9.82	8.71	3.68	9.19	8.22	4.09

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN100CXV1 - RR90DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	9.12	6.02	2.61	8.80	5.87	2.82	8.47	5.71	3.05	8.13	5.54	3.31	7.46	5.16	3.59	6.89	4.85	3.96
		24°C	9.13	7.21	2.61	8.81	7.05	2.82	8.48	6.88	3.05	8.14	6.71	3.31	7.48	6.27	3.59	6.92	5.91	3.96
		27°C	9.20	8.18	2.61	8.90	7.99	2.82	8.58	7.80	3.06	8.26	7.60	3.32	7.62	7.07	3.60	7.09	6.64	3.98
		30°C	9.49	9.49	2.62	9.21	9.21	2.84	8.93	8.93	3.08	8.65	8.65	3.34	8.02	8.02	3.63	7.50	7.50	4.01
	19°C	24°C	10.06	5.62	2.65	9.71	5.48	2.87	9.35	5.33	3.11	8.98	5.18	3.37	8.25	4.83	3.65	7.63	4.55	4.03
		27°C	10.06	6.43	2.65	9.71	6.29	2.87	9.36	6.14	3.11	8.99	6.00	3.37	8.26	5.61	3.65	7.64	5.31	4.03
		30°C	10.08	7.94	2.65	9.73	7.77	2.87	9.39	7.60	3.11	9.03	7.41	3.37	8.32	6.93	3.66	7.72	6.56	4.03
		33°C	10.20	10.20	2.65	9.87	9.87	2.88	9.55	9.55	3.12	9.22	9.22	3.38	8.53	8.53	3.68	7.98	7.98	4.06
	22°C	27°C	11.07	5.50	2.70	10.68	5.37	2.92	10.29	5.24	3.17	9.89	5.09	3.43	9.10	4.74	3.72	8.42	4.47	4.10
		30°C	11.07	6.71	2.70	10.69	6.56	2.92	10.29	6.41	3.17	9.89	6.26	3.43	9.10	5.86	3.73	8.42	5.56	4.10
		33°C	11.08	7.83	2.70	10.69	7.68	2.92	10.30	7.53	3.17	9.90	7.38	3.43	9.11	6.92	3.73	8.44	6.58	4.11
		36°C	11.11	8.88	2.70	10.74	8.70	2.92	10.37	8.52	3.17	9.99	8.33	3.44	9.22	7.81	3.73	8.57	7.41	4.12
1050	16°C	21°C	9.49	6.28	2.63	9.14	6.12	2.84	8.80	5.96	3.08	8.44	5.79	3.34	7.74	5.39	3.62	7.14	5.07	3.99
		24°C	9.52	7.62	2.63	9.17	7.44	2.85	8.83	7.27	3.08	8.47	7.08	3.34	7.78	6.61	3.63	7.20	6.24	4.00
		27°C	9.63	8.66	2.64	9.31	8.46	2.85	8.99	8.24	3.09	8.66	7.99	3.35	8.00	7.42	3.64	7.45	6.94	4.02
		30°C	10.03	10.03	2.66	9.74	9.74	2.88	9.44	9.44	3.12	9.14	9.14	3.39	8.47	8.47	3.68	7.91	7.91	4.06
	19°C	24°C	10.45	5.94	2.67	10.08	5.79	2.89	9.70	5.64	3.13	9.31	5.49	3.40	8.55	5.11	3.69	7.90	4.82	4.06
		27°C	10.47	6.84	2.67	10.10	6.69	2.89	9.72	6.54	3.14	9.33	6.39	3.40	8.57	5.97	3.69	7.92	5.65	4.06
		30°C	10.52	8.44	2.68	10.15	8.26	2.90	9.79	8.07	3.14	9.42	7.88	3.41	8.67	7.36	3.70	8.04	6.96	4.07
		33°C	10.70	10.70	2.69	10.37	10.37	2.91	10.04	10.04	3.16	9.71	9.71	3.43	8.99	8.99	3.72	8.41	8.41	4.11
	22°C	27°C	11.48	5.82	2.72	11.08	5.68	2.95	10.67	5.54	3.20	10.24	5.39	3.47	9.41	5.02	3.76	8.71	4.74	4.14
		30°C	11.50	7.14	2.72	11.09	6.99	2.95	10.68	6.83	3.20	10.26	6.67	3.47	9.43	6.25	3.76	8.72	5.93	4.14
		33°C	11.52	8.36	2.72	11.12	8.20	2.95	10.71	8.04	3.20	10.29	7.87	3.47	9.47	7.38	3.76	8.77	7.01	4.15
		36°C	11.59	9.46	2.73	11.22	9.28	2.96	10.82	9.08	3.21	10.43	8.87	3.48	9.62	8.30	3.78	8.97	7.83	4.17
1160	16°C	21°C	9.84	6.55	2.65	9.48	6.39	2.87	9.11	6.22	3.10	8.74	6.04	3.37	8.01	5.63	3.65	7.39	5.30	4.02
		24°C	9.89	7.96	2.65	9.53	7.77	2.87	9.17	7.58	3.11	8.80	7.38	3.37	8.08	6.89	3.66	7.47	6.50	4.03
		27°C	10.05	9.12	2.66	9.72	8.89	2.88	9.39	8.64	3.12	9.05	8.37	3.39	8.37	7.76	3.68	7.80	7.24	4.06
		30°C	10.55	10.55	2.68	10.24	10.24	2.91	9.93	9.93	3.15	9.60	9.60	3.43	8.89	8.89	3.72	8.30	8.30	4.11
	19°C	24°C	10.83	6.28	2.70	10.44	6.13	2.92	10.04	5.97	3.16	9.63	5.81	3.43	8.84	5.42	3.72	8.16	5.11	4.09
		27°C	10.86	7.27	2.70	10.47	7.11	2.92	10.08	6.94	3.16	9.67	6.77	3.43	8.88	6.33	3.72	8.21	5.99	4.10
		30°C	10.95	8.95	2.70	10.56	8.75	2.93	10.18	8.55	3.17	9.79	8.34	3.44	9.02	7.79	3.73	8.37	7.34	4.11
		33°C	11.19	11.19	2.71	10.86	10.86	2.94	10.53	10.53	3.19	10.18	10.18	3.47	9.43	9.43	3.77	8.82	8.82	4.16
	22°C	27°C	11.88	6.15	2.75	11.46	6.01	2.97	11.03	5.86	3.22	10.58	5.71	3.50	9.72	5.33	3.79	8.99	5.03	4.17
		30°C	11.91	7.58	2.75	11.48	7.44	2.98	11.05	7.27	3.23	10.61	7.11	3.50	9.75	6.66	3.79	9.01	6.31	4.18
		33°C	11.95	8.88	2.75	11.53	8.73	2.98	11.11	8.54	3.23	10.67	8.36	3.50	9.82	7.83	3.80	9.10	7.43	4.19
		36°C	12.05	10.03	2.76	11.68	9.85	2.99	11.27	9.63	3.24	10.87	9.39	3.52	10.04	8.76	3.82	9.37	8.25	4.21
1280	16°C	21°C	9.83	6.61	2.68	9.49	6.45	2.88	9.14	6.29	3.12	8.78	6.13	3.39	8.07	5.71	3.69	7.45	5.38	4.10
		24°C	9.87	8.08	2.68	9.52	7.91	2.88	9.17	7.73	3.12	8.82	7.55	3.39	8.11	7.06	3.69	7.51	6.66	4.11
		27°C	10.03	9.27	2.69	9.72	9.03	2.89	9.41	8.80	3.13	9.10	8.53	3.41	8.43	8.07	3.72	7.88	7.61	4.13
		30°C	10.57	10.57	2.71	10.28	10.28	2.92	9.98	9.98	3.16	9.67	9.67	3.44	8.97	8.97	3.75	8.40	8.40	4.17
	19°C	24°C	10.82	6.34	2.72	10.45	6.19	2.93	10.08	6.04	3.17	9.69	5.88	3.44	8.91	5.50	3.75	8.24	5.19	4.16
		27°C	10.85	7.35	2.72	10.48	7.20	2.93	10.10	7.04	3.17	9.71	6.89	3.44	8.94	6.46	3.75	8.27	6.13	4.17
		30°C	10.91	9.13	2.73	10.54	8.94	2.94	10.19	8.75	3.18	9.82	8.54	3.45	9.07	7.98	3.76	8.45	7.52	4.18
		33°C	11.20	11.20	2.74	10.88	10.88	2.95	10.57	10.57	3.20	10.26	10.26	3.48	9.52	9.52	3.79	8.93	8.93	4.22
	22°C	27°C	11.90	6.22	2.77	11.49	6.07	2.99	11.08	5.93	3.23	10.66	5.78	3.51	9.82	5.41	3.82	9.10	5.12	4.23
		30°C	11.92	7.69	2.78	11.51	7.53	2.99	11.11	7.37	3.23	10.69	7.21	3.51	9.84	6.77	3.82	9.12	6.44	4.23
		33°C	11.95	9.06	2.78	11.54	8.90	2.99	11.13	8.74	3.23	10.72	8.56	3.51	9.88	8.05	3.82	9.18	7.65	4.24
		36°C	12.06	10.26	2.78	11.68	10.06	3.00	11.30	9.85	3.25	10.94	9.61	3.53	10.13	8.98	3.84	9.48	8.48	4.26

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN100CXV1 - RR100DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	10.78	7.12	3.26	10.40	6.93	3.53	10.01	6.75	3.82	9.61	6.55	4.14	8.82	6.10	4.49	8.15	5.74	4.95
		24°C	10.79	8.52	3.26	10.41	8.33	3.53	10.02	8.14	3.82	9.62	7.93	4.14	8.84	7.41	4.49	8.18	6.99	4.95
		27°C	10.88	9.66	3.27	10.52	9.45	3.53	10.15	9.22	3.83	9.76	8.99	4.15	9.01	8.36	4.51	8.38	7.85	4.97
		30°C	11.21	11.21	3.28	10.89	10.89	3.55	10.56	10.56	3.85	10.22	10.22	4.18	9.47	9.47	4.54	8.86	8.86	5.02
	19°C	24°C	11.89	6.65	3.31	11.47	6.48	3.58	11.05	6.31	3.88	10.61	6.13	4.21	9.75	5.71	4.57	9.02	5.37	5.04
		27°C	11.90	7.60	3.31	11.48	7.43	3.58	11.06	7.26	3.88	10.62	7.09	4.21	9.76	6.63	4.57	9.03	6.28	5.04
		30°C	11.92	9.38	3.31	11.50	9.18	3.59	11.10	8.98	3.89	10.68	8.76	4.22	9.83	8.20	4.58	9.12	7.76	5.05
		33°C	12.06	12.06	3.32	11.66	11.66	3.60	11.29	11.29	3.90	10.90	10.90	4.23	10.09	10.09	4.60	9.43	9.43	5.08
	22°C	27°C	13.08	6.51	3.37	12.63	6.35	3.65	12.17	6.19	3.96	11.69	6.02	4.29	10.75	5.61	4.66	9.95	5.29	5.13
		30°C	13.08	7.93	3.37	12.63	7.76	3.65	12.17	7.58	3.96	11.69	7.40	4.30	10.75	6.93	4.66	9.96	6.57	5.13
		33°C	13.09	9.26	3.37	12.64	9.08	3.65	12.18	8.90	3.96	11.70	8.72	4.30	10.77	8.18	4.66	9.98	7.77	5.14
		36°C	13.13	10.50	3.37	12.70	10.29	3.66	12.26	10.07	3.97	11.81	9.85	4.30	10.89	9.24	4.67	10.13	8.76	5.15
1050	16°C	21°C	11.21	7.42	3.29	10.81	7.23	3.56	10.40	7.04	3.85	9.97	6.84	4.18	9.15	6.37	4.53	8.44	5.99	4.99
		24°C	11.25	9.01	3.29	10.84	8.80	3.56	10.44	8.59	3.86	10.02	8.37	4.18	9.20	7.81	4.53	8.51	7.37	5.00
		27°C	11.38	10.23	3.30	11.00	9.99	3.57	10.62	9.74	3.87	10.24	9.45	4.20	9.45	8.78	4.55	8.81	8.21	5.03
		30°C	11.86	11.86	3.32	11.51	11.51	3.60	11.16	11.16	3.90	10.80	10.80	4.24	10.01	10.01	4.60	9.35	9.35	5.08
	19°C	24°C	12.35	7.02	3.34	11.91	6.85	3.62	11.47	6.67	3.92	11.01	6.48	4.25	10.11	6.04	4.61	9.34	5.70	5.08
		27°C	12.38	8.09	3.34	11.93	7.91	3.62	11.49	7.73	3.92	11.03	7.55	4.25	10.13	7.06	4.61	9.37	6.68	5.08
		30°C	12.43	9.98	3.35	12.00	9.76	3.62	11.57	9.54	3.93	11.13	9.31	4.26	10.25	8.71	4.62	9.51	8.22	5.10
		33°C	12.64	12.64	3.36	12.26	12.26	3.64	11.87	11.87	3.95	11.47	11.47	4.29	10.63	10.63	4.66	9.94	9.94	5.14
	22°C	27°C	13.57	6.88	3.40	13.10	6.71	3.69	12.61	6.54	4.00	12.11	6.37	4.33	11.13	5.94	4.70	10.29	5.60	5.18
		30°C	13.59	8.44	3.41	13.11	8.26	3.69	12.62	8.08	4.00	12.12	7.89	4.34	11.14	7.39	4.70	10.31	7.01	5.18
		33°C	13.62	9.89	3.41	13.14	9.70	3.69	12.66	9.50	4.00	12.16	9.30	4.34	11.19	8.72	4.71	10.37	8.28	5.19
		36°C	13.70	11.18	3.41	13.26	10.96	3.70	12.79	10.74	4.01	12.33	10.49	4.35	11.37	9.81	4.72	10.60	9.26	5.21
1160	16°C	21°C	11.63	7.74	3.32	11.20	7.55	3.59	10.77	7.35	3.88	10.33	7.14	4.21	9.47	6.65	4.57	8.73	6.26	5.03
		24°C	11.69	9.41	3.32	11.26	9.19	3.59	10.84	8.96	3.89	10.40	8.73	4.22	9.55	8.14	4.57	8.83	7.68	5.04
		27°C	11.88	10.78	3.33	11.49	10.51	3.60	11.10	10.21	3.90	10.70	9.90	4.24	9.89	9.17	4.60	9.22	8.56	5.08
		30°C	12.47	12.47	3.36	12.11	12.11	3.64	11.73	11.73	3.95	11.35	11.35	4.28	10.51	10.51	4.65	9.81	9.81	5.14
	19°C	24°C	12.80	7.43	3.37	12.34	7.25	3.65	11.87	7.06	3.95	11.38	6.87	4.29	10.45	6.40	4.65	9.65	6.04	5.12
		27°C	12.84	8.59	3.37	12.38	8.40	3.65	11.91	8.20	3.96	11.43	8.00	4.29	10.49	7.48	4.65	9.70	7.08	5.13
		30°C	12.94	10.58	3.38	12.48	10.35	3.66	12.04	10.11	3.97	11.58	9.86	4.30	10.66	9.21	4.67	9.89	8.68	5.14
		33°C	13.22	13.22	3.39	12.84	12.84	3.68	12.44	12.44	3.99	12.03	12.03	4.34	11.15	11.15	4.71	10.42	10.42	5.20
	22°C	27°C	14.04	7.27	3.43	13.55	7.11	3.72	13.04	6.93	4.03	12.51	6.75	4.37	11.49	6.30	4.74	10.62	5.95	5.22
		30°C	14.07	8.96	3.44	13.57	8.79	3.72	13.06	8.60	4.03	12.54	8.40	4.37	11.52	7.87	4.74	10.65	7.46	5.22
		33°C	14.12	10.50	3.44	13.63	10.32	3.73	13.13	10.10	4.04	12.62	9.88	4.38	11.61	9.26	4.75	10.75	8.79	5.23
		36°C	14.25	11.86	3.45	13.80	11.64	3.74	13.32	11.38	4.05	12.85	11.10	4.40	11.87	10.36	4.78	11.07	9.75	5.27
1280	16°C	21°C	11.62	7.81	3.35	11.21	7.62	3.60	10.81	7.44	3.90	10.38	7.24	4.24	9.54	6.75	4.62	8.81	6.36	5.13
		24°C	11.66	9.55	3.35	11.25	9.35	3.61	10.84	9.14	3.90	10.43	8.93	4.24	9.59	8.35	4.62	8.88	7.88	5.14
		27°C	11.86	10.95	3.36	11.49	10.68	3.62	11.13	10.40	3.92	10.75	10.09	4.26	9.96	9.53	4.65	9.31	8.99	5.17
		30°C	12.50	12.50	3.39	12.15	12.15	3.66	11.80	11.80	3.96	11.43	11.43	4.30	10.60	10.60	4.70	9.92	9.92	5.22
	19°C	24°C	12.79	7.49	3.40	12.35	7.31	3.67	11.91	7.14	3.96	11.45	6.95	4.31	10.53	6.50	4.69	9.74	6.14	5.21
		27°C	12.83	8.69	3.41	12.38	8.51	3.67	11.94	8.33	3.97	11.48	8.14	4.31	10.56	7.63	4.69	9.77	7.25	5.21
		30°C	12.89	10.79	3.41	12.46	10.56	3.67	12.04	10.34	3.97	11.61	10.09	4.32	10.72	9.43	4.70	9.98	8.89	5.23
		33°C	13.24	13.24	3.43	12.86	12.86	3.70	12.50	12.50	4.00	12.12	12.12	4.35	11.26	11.26	4.75	10.55	10.55	5.28
	22°C	27°C	14.06	7.35	3.47	13.58	7.18	3.74	13.10	7.01	4.04	12.61	6.84	4.39	11.61	6.39	4.77	10.76	6.05	5.29
		30°C	14.09	9.09	3.47	13.61	8.90	3.74	13.13	8.72	4.04	12.63	8.53	4.39	11.63	8.00	4.77	10.78	7.61	5.29
		33°C	14.12	10.70	3.47	13.64	10.52	3.74	13.16	10.33	4.05	12.67	10.12	4.39	11.68	9.51	4.78	10.85	9.04	5.30
		36°C	14.26	12.13	3.48	13.80	11.89	3.75	13.36	11.64	4.06	12.93	11.36	4.41	11.97	10.62	4.80	11.20	10.02	5.33

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN100CXV1 - RR100DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	10.78	7.12	3.26	10.40	6.93	3.53	10.01	6.75	3.82	9.61	6.55	4.14	8.82	6.10	4.49	8.15	5.74	4.95
		24°C	10.79	8.52	3.26	10.41	8.33	3.53	10.02	8.14	3.82	9.62	7.93	4.14	8.84	7.41	4.49	8.18	6.99	4.95
		27°C	10.88	9.66	3.27	10.52	9.45	3.53	10.15	9.22	3.83	9.76	8.99	4.15	9.01	8.36	4.51	8.38	7.85	4.97
		30°C	11.21	11.21	3.28	10.89	10.89	3.55	10.56	10.56	3.85	10.22	10.22	4.18	9.47	9.47	4.54	8.86	8.86	5.02
	19°C	24°C	11.89	6.65	3.31	11.47	6.48	3.58	11.05	6.31	3.88	10.61	6.13	4.21	9.75	5.71	4.57	9.02	5.37	5.04
		27°C	11.90	7.60	3.31	11.48	7.43	3.58	11.06	7.26	3.88	10.62	7.09	4.21	9.76	6.63	4.57	9.03	6.28	5.04
		30°C	11.92	9.38	3.31	11.50	9.18	3.59	11.10	8.98	3.89	10.68	8.76	4.22	9.83	8.20	4.58	9.12	7.76	5.05
		33°C	12.06	12.06	3.32	11.66	11.66	3.60	11.29	11.29	3.90	10.90	10.90	4.23	10.09	10.09	4.60	9.43	9.43	5.08
	22°C	27°C	13.08	6.51	3.37	12.63	6.35	3.65	12.17	6.19	3.96	11.69	6.02	4.29	10.75	5.61	4.66	9.95	5.29	5.13
		30°C	13.08	7.93	3.37	12.63	7.76	3.65	12.17	7.58	3.96	11.69	7.40	4.30	10.75	6.93	4.66	9.96	6.57	5.13
		33°C	13.09	9.26	3.37	12.64	9.08	3.65	12.18	8.90	3.96	11.70	8.72	4.30	10.77	8.18	4.66	9.98	7.77	5.14
		36°C	13.13	10.50	3.37	12.70	10.29	3.66	12.26	10.07	3.97	11.81	9.85	4.30	10.89	9.24	4.67	10.13	8.76	5.15
1050	16°C	21°C	11.21	7.42	3.29	10.81	7.23	3.56	10.40	7.04	3.85	9.97	6.84	4.18	9.15	6.37	4.53	8.44	5.99	4.99
		24°C	11.25	9.01	3.29	10.84	8.80	3.56	10.44	8.59	3.86	10.02	8.37	4.18	9.20	7.81	4.53	8.51	7.37	5.00
		27°C	11.38	10.23	3.30	11.00	9.99	3.57	10.62	9.74	3.87	10.24	9.45	4.20	9.45	8.78	4.55	8.81	8.21	5.03
		30°C	11.86	11.86	3.32	11.51	11.51	3.60	11.16	11.16	3.90	10.80	10.80	4.24	10.01	10.01	4.60	9.35	9.35	5.08
	19°C	24°C	12.35	7.02	3.34	11.91	6.85	3.62	11.47	6.67	3.92	11.01	6.48	4.25	10.11	6.04	4.61	9.34	5.70	5.08
		27°C	12.38	8.09	3.34	11.93	7.91	3.62	11.49	7.73	3.92	11.03	7.55	4.25	10.13	7.06	4.61	9.37	6.68	5.08
		30°C	12.43	9.98	3.35	12.00	9.76	3.62	11.57	9.54	3.93	11.13	9.31	4.26	10.25	8.71	4.62	9.51	8.22	5.10
		33°C	12.64	12.64	3.36	12.26	12.26	3.64	11.87	11.87	3.95	11.47	11.47	4.29	10.63	10.63	4.66	9.94	9.94	5.14
	22°C	27°C	13.57	6.88	3.40	13.10	6.71	3.69	12.61	6.54	4.00	12.11	6.37	4.33	11.13	5.94	4.70	10.29	5.60	5.18
		30°C	13.59	8.44	3.41	13.11	8.26	3.69	12.62	8.08	4.00	12.12	7.89	4.34	11.14	7.39	4.70	10.31	7.01	5.18
		33°C	13.62	9.89	3.41	13.14	9.70	3.69	12.66	9.50	4.00	12.16	9.30	4.34	11.19	8.72	4.71	10.37	8.28	5.19
		36°C	13.70	11.18	3.41	13.26	10.96	3.70	12.79	10.74	4.01	12.33	10.49	4.35	11.37	9.81	4.72	10.60	9.26	5.21
1160	16°C	21°C	11.63	7.74	3.32	11.20	7.55	3.59	10.77	7.35	3.88	10.33	7.14	4.21	9.47	6.65	4.57	8.73	6.26	5.03
		24°C	11.69	9.41	3.32	11.26	9.19	3.59	10.84	8.96	3.89	10.40	8.73	4.22	9.55	8.14	4.57	8.83	7.68	5.04
		27°C	11.88	10.78	3.33	11.49	10.51	3.60	11.10	10.21	3.90	10.70	9.90	4.24	9.89	9.17	4.60	9.22	8.56	5.08
		30°C	12.47	12.47	3.36	12.11	12.11	3.64	11.73	11.73	3.95	11.35	11.35	4.28	10.51	10.51	4.65	9.81	9.81	5.14
	19°C	24°C	12.80	7.43	3.37	12.34	7.25	3.65	11.87	7.06	3.95	11.38	6.87	4.29	10.45	6.40	4.65	9.65	6.04	5.12
		27°C	12.84	8.59	3.37	12.38	8.40	3.65	11.91	8.20	3.96	11.43	8.00	4.29	10.49	7.48	4.65	9.70	7.08	5.13
		30°C	12.94	10.58	3.38	12.48	10.35	3.66	12.04	10.11	3.97	11.58	9.86	4.30	10.66	9.21	4.67	9.89	8.68	5.14
		33°C	13.22	13.22	3.39	12.84	12.84	3.68	12.44	12.44	3.99	12.03	12.03	4.34	11.15	11.15	4.71	10.42	10.42	5.20
	22°C	27°C	14.04	7.27	3.43	13.55	7.11	3.72	13.04	6.93	4.03	12.51	6.75	4.37	11.49	6.30	4.74	10.62	5.95	5.22
		30°C	14.07	8.96	3.44	13.57	8.79	3.72	13.06	8.60	4.03	12.54	8.40	4.37	11.52	7.87	4.74	10.65	7.46	5.22
		33°C	14.12	10.50	3.44	13.63	10.32	3.73	13.13	10.10	4.04	12.62	9.88	4.38	11.61	9.26	4.75	10.75	8.79	5.23
		36°C	14.25	11.86	3.45	13.80	11.64	3.74	13.32	11.38	4.05	12.85	11.10	4.40	11.87	10.36	4.78	11.07	9.75	5.27
1280	16°C	21°C	11.62	7.81	3.35	11.21	7.62	3.60	10.81	7.44	3.90	10.38	7.24	4.24	9.54	6.75	4.62	8.81	6.36	5.13
		24°C	11.66	9.55	3.35	11.25	9.35	3.61	10.84	9.14	3.90	10.43	8.93	4.24	9.59	8.35	4.62	8.88	7.88	5.14
		27°C	11.86	10.95	3.36	11.49	10.68	3.62	11.13	10.40	3.92	10.75	10.09	4.26	9.96	9.53	4.65	9.31	8.99	5.17
		30°C	12.50	12.50	3.39	12.15	12.15	3.66	11.80	11.80	3.96	11.43	11.43	4.30	10.60	10.60	4.70	9.92	9.92	5.22
	19°C	24°C	12.79	7.49	3.40	12.35	7.31	3.67	11.91	7.14	3.96	11.45	6.95	4.31	10.53	6.50	4.69	9.74	6.14	5.21
		27°C	12.83	8.69	3.41	12.38	8.51	3.67	11.94	8.33	3.97	11.48	8.14	4.31	10.56	7.63	4.69	9.77	7.25	5.21
		30°C	12.89	10.79	3.41	12.46	10.56	3.67	12.04	10.34	3.97	11.61	10.09	4.32	10.72	9.43	4.70	9.98	8.89	5.23
		33°C	13.24	13.24	3.43	12.86	12.86	3.70	12.50	12.50	4.00	12.12	12.12	4.35	11.26	11.26	4.75	10.55	10.55	5.28
	22°C	27°C	14.06	7.35	3.47	13.58	7.18	3.74	13.10	7.01	4.04	12.61	6.84	4.39	11.61	6.39	4.77	10.76	6.05	5.29
		30°C	14.09	9.09	3.47	13.61	8.90	3.74	13.13	8.72	4.04	12.63	8.53	4.39	11.63	8.00	4.77	10.78	7.61	5.29
		33°C	14.12	10.70	3.47	13.64	10.52	3.74	13.16	10.33	4.05	12.67	10.12	4.39	11.68	9.51	4.78	10.85	9.04	5.30
		36°C	14.26	12.13	3.48	13.80	11.89	3.75	13.36	11.64	4.06	12.93	11.36	4.41	11.97	10.62	4.80	11.20	10.02	5.33

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN125CXV1 - RR125DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1130	16°C	21°C	12.44	8.22	3.75	12.00	8.00	4.05	11.55	7.79	4.39	11.09	7.56	4.76	10.18	7.04	5.16	9.40	6.62	5.69
		24°C	12.46	9.84	3.75	12.01	9.61	4.05	11.57	9.39	4.39	11.11	9.15	4.76	10.20	8.55	5.16	9.44	8.07	5.69
		27°C	12.56	11.15	3.75	12.14	10.90	4.06	11.71	10.64	4.40	11.27	10.37	4.77	10.40	9.65	5.18	9.68	9.06	5.72
		30°C	12.94	12.94	3.77	12.57	12.57	4.08	12.19	12.19	4.43	11.80	11.80	4.81	10.93	10.93	5.22	10.23	10.23	5.77
	19°C	24°C	13.72	7.67	3.81	13.24	7.48	4.12	12.75	7.28	4.46	12.25	7.07	4.84	11.26	6.59	5.25	10.41	6.20	5.79
		27°C	13.73	8.78	3.81	13.25	8.58	4.12	12.76	8.38	4.47	12.26	8.18	4.84	11.27	7.65	5.25	10.42	7.25	5.79
		30°C	13.75	10.83	3.81	13.28	10.60	4.12	12.81	10.36	4.47	12.32	10.11	4.85	11.35	9.46	5.26	10.53	8.95	5.80
		33°C	13.92	13.92	3.82	13.46	13.46	4.13	13.03	13.03	4.48	12.58	12.58	4.87	11.64	11.64	5.29	10.88	10.88	5.84
	22°C	27°C	15.10	7.51	3.88	14.57	7.33	4.20	14.04	7.14	4.55	13.49	6.95	4.94	12.41	6.47	5.35	11.49	6.10	5.90
		30°C	15.10	9.15	3.88	14.58	8.95	4.20	14.04	8.75	4.55	13.50	8.54	4.94	12.41	8.00	5.36	11.49	7.58	5.90
		33°C	15.11	10.68	3.88	14.59	10.48	4.20	14.06	10.27	4.55	13.51	10.06	4.94	12.43	9.44	5.36	11.52	8.97	5.90
		36°C	15.16	12.12	3.88	14.66	11.87	4.20	14.15	11.63	4.56	13.63	11.37	4.95	12.57	10.66	5.37	11.69	10.11	5.92
1230	16°C	21°C	12.94	8.56	3.78	12.47	8.34	4.09	12.00	8.12	4.43	11.51	7.89	4.80	10.56	7.35	5.21	9.74	6.92	5.74
		24°C	12.98	10.39	3.78	12.51	10.15	4.09	12.05	9.91	4.43	11.56	9.66	4.80	10.62	9.01	5.21	9.82	8.51	5.74
		27°C	13.14	11.81	3.79	12.70	11.53	4.10	12.26	11.23	4.44	11.82	10.90	4.82	10.91	10.12	5.24	10.16	9.47	5.78
		30°C	13.68	13.68	3.82	13.29	13.29	4.13	12.88	12.88	4.48	12.46	12.46	4.87	11.55	11.55	5.29	10.79	10.79	5.84
	19°C	24°C	14.26	8.10	3.84	13.75	7.90	4.16	13.23	7.69	4.51	12.70	7.48	4.89	11.66	6.97	5.30	10.78	6.57	5.84
		27°C	14.28	9.33	3.84	13.77	9.13	4.16	13.26	8.92	4.51	12.73	8.71	4.89	11.69	8.14	5.30	10.81	7.71	5.84
		30°C	14.35	11.51	3.85	13.85	11.26	4.17	13.35	11.01	4.51	12.84	10.74	4.90	11.83	10.04	5.31	10.97	9.49	5.86
		33°C	14.59	14.59	3.86	14.14	14.14	4.18	13.69	13.69	4.54	13.24	13.24	4.93	12.26	12.26	5.35	11.47	11.47	5.91
	22°C	27°C	15.66	7.93	3.91	15.11	7.75	4.24	14.55	7.55	4.59	13.97	7.35	4.98	12.84	6.85	5.40	11.88	6.47	5.95
		30°C	15.68	9.73	3.91	15.13	9.53	4.24	14.57	9.32	4.60	13.99	9.10	4.98	12.86	8.52	5.41	11.89	8.09	5.95
		33°C	15.71	11.41	3.92	15.17	11.19	4.24	14.61	10.96	4.60	14.03	10.73	4.99	12.91	10.06	5.41	11.97	9.55	5.96
		36°C	15.81	12.89	3.92	15.30	12.65	4.25	14.76	12.39	4.61	14.23	12.10	5.00	13.13	11.32	5.43	12.24	10.68	5.99
1320	16°C	21°C	13.42	8.93	3.81	12.93	8.71	4.12	12.43	8.48	4.46	11.92	8.24	4.84	10.93	7.68	5.25	10.07	7.22	5.78
		24°C	13.49	10.86	3.82	13.00	10.60	4.13	12.51	10.34	4.47	12.00	10.07	4.85	11.03	9.40	5.26	10.19	8.86	5.79
		27°C	13.71	12.44	3.83	13.26	12.12	4.14	12.81	11.78	4.49	12.35	11.42	4.87	11.41	10.58	5.29	10.64	9.87	5.84
		30°C	14.39	14.39	3.86	13.97	13.97	4.18	13.54	13.54	4.54	13.10	13.10	4.92	12.13	12.13	5.35	11.32	11.32	5.90
	19°C	24°C	14.77	8.57	3.87	14.24	8.36	4.19	13.69	8.14	4.54	13.14	7.92	4.93	12.06	7.39	5.34	11.13	6.97	5.89
		27°C	14.81	9.92	3.88	14.28	9.69	4.20	13.74	9.46	4.55	13.19	9.23	4.93	12.11	8.63	5.35	11.19	8.17	5.89
		30°C	14.94	12.20	3.88	14.41	11.94	4.21	13.89	11.66	4.56	13.36	11.37	4.94	12.30	10.62	5.36	11.42	10.01	5.91
		33°C	15.26	15.26	3.90	14.81	14.81	4.23	14.36	14.36	4.59	13.88	13.88	4.98	12.86	12.86	5.41	12.03	12.03	5.98
	22°C	27°C	16.21	8.38	3.95	15.63	8.20	4.28	15.04	7.99	4.63	14.44	7.78	5.02	13.26	7.26	5.45	12.26	6.86	6.00
		30°C	16.24	10.34	3.95	15.66	10.14	4.28	15.07	9.92	4.64	14.47	9.69	5.03	13.29	9.08	5.45	12.29	8.60	6.00
		33°C	16.30	12.11	3.95	15.73	11.90	4.28	15.15	11.65	4.64	14.56	11.39	5.04	13.39	10.68	5.46	12.41	10.13	6.02
		36°C	16.44	13.68	3.96	15.93	13.43	4.30	15.38	13.13	4.66	14.82	12.81	5.06	13.70	11.95	5.49	12.78	11.25	6.06
1430	16°C	21°C	13.41	9.01	3.85	12.94	8.79	4.14	12.47	8.58	4.48	11.98	8.35	4.87	11.01	7.78	5.31	10.17	7.33	5.90
		24°C	13.46	11.02	3.85	12.98	10.78	4.15	12.51	10.55	4.48	12.03	10.30	4.87	11.06	9.63	5.31	10.25	9.08	5.90
		27°C	13.68	12.63	3.86	13.26	12.32	4.16	12.84	11.99	4.50	12.41	11.64	4.90	11.50	11.00	5.34	10.74	10.38	5.94
		30°C	14.42	14.42	3.90	14.02	14.02	4.20	13.61	13.61	4.55	13.19	13.19	4.95	12.24	12.24	5.40	11.45	11.45	6.00
	19°C	24°C	14.76	8.64	3.91	14.25	8.44	4.21	13.74	8.23	4.56	13.21	8.02	4.95	12.15	7.49	5.39	11.24	7.08	5.98
		27°C	14.81	10.02	3.92	14.29	9.81	4.22	13.78	9.61	4.56	13.25	9.39	4.95	12.19	8.81	5.39	11.28	8.36	5.99
		30°C	14.88	12.45	3.92	14.38	12.18	4.22	13.90	11.92	4.57	13.40	11.64	4.96	12.37	10.88	5.41	11.52	10.25	6.01
		33°C	15.28	15.28	3.94	14.83	14.83	4.25	14.42	14.42	4.60	13.99	13.99	5.00	12.99	12.99	5.45	12.18	12.18	6.06
	22°C	27°C	16.23	8.48	3.99	15.67	8.28	4.29	15.12	8.09	4.64	14.55	7.89	5.04	13.39	7.37	5.49	12.41	6.98	6.08
		30°C	16.26	10.48	3.99	15.70	10.27	4.30	15.15	10.05	4.65	14.58	9.84	5.04	13.42	9.23	5.49	12.44	8.77	6.09
		33°C	16.30	12.35	3.99	15.74	12.13	4.30	15.18	11.91	4.65	14.62	11.68	5.05	13.47	10.98	5.49	12.52	10.43	6.09
		36°C	16.45	14.00	4.00	15.93	13.72	4.31	15.42	13.43	4.67	14.92	13.10	5.07	13.82	12.25	5.52	12.93	11.56	6.13

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FDMRN140CXV1 - RR140DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1170	16°C	21°C	15.20	9.91	4.38	14.66	9.65	4.73	14.12	9.39	5.12	13.55	9.12	5.56	12.44	8.49	6.03	11.49	7.98	6.65
		24°C	15.22	11.87	4.38	14.68	11.59	4.73	14.14	11.32	5.13	13.57	11.04	5.56	12.47	10.31	6.03	11.53	9.73	6.65
		27°C	15.34	13.45	4.38	14.83	13.15	4.74	14.31	12.84	5.14	13.77	12.51	5.57	12.70	11.64	6.05	11.82	10.93	6.67
		30°C	15.81	15.81	4.40	15.36	15.36	4.77	14.89	14.89	5.17	14.41	14.41	5.61	13.36	13.36	6.10	12.50	12.50	6.74
	19°C	24°C	16.77	9.25	4.44	16.18	9.02	4.81	15.58	8.78	5.21	14.97	8.53	5.65	13.75	7.94	6.13	12.72	7.48	6.76
		27°C	16.78	10.58	4.44	16.19	10.35	4.81	15.59	10.11	5.21	14.98	9.86	5.65	13.77	9.23	6.13	12.73	8.74	6.76
		30°C	16.80	13.06	4.45	16.22	12.78	4.81	15.65	12.50	5.22	15.06	12.20	5.66	13.86	11.41	6.14	12.86	10.80	6.77
		33°C	17.00	17.00	4.46	16.45	16.45	4.83	15.91	15.91	5.23	15.37	15.37	5.68	14.22	14.22	6.17	13.30	13.30	6.81
	22°C	27°C	18.44	9.06	4.53	17.81	8.84	4.90	17.16	8.61	5.31	16.49	8.38	5.76	15.16	7.81	6.25	14.03	7.36	6.89
		30°C	18.45	11.04	4.53	17.81	10.80	4.90	17.16	10.55	5.31	16.49	10.30	5.76	15.17	9.64	6.25	14.04	9.15	6.89
		33°C	18.46	12.89	4.53	17.82	12.64	4.90	17.17	12.39	5.32	16.50	12.14	5.77	15.18	11.39	6.26	14.07	10.82	6.89
		36°C	18.52	14.61	4.53	17.91	14.32	4.91	17.29	14.02	5.32	16.66	13.71	5.78	15.36	12.86	6.27	14.28	12.20	6.91
1340	16°C	21°C	15.81	10.33	4.41	15.24	10.07	4.77	14.67	9.80	5.17	14.07	9.52	5.61	12.91	8.87	6.08	11.91	8.35	6.70
		24°C	15.86	12.54	4.42	15.29	12.25	4.78	14.72	11.96	5.17	14.12	11.66	5.61	12.98	10.87	6.09	12.00	10.26	6.71
		27°C	16.05	14.25	4.43	15.51	13.91	4.79	14.98	13.56	5.19	14.44	13.15	5.63	13.33	12.22	6.11	12.42	11.43	6.75
		30°C	16.72	16.72	4.46	16.24	16.24	4.83	15.74	15.74	5.24	15.23	15.23	5.69	14.11	14.11	6.18	13.19	13.19	6.82
	19°C	24°C	17.42	9.78	4.49	16.80	9.53	4.86	16.17	9.28	5.26	15.52	9.03	5.70	14.25	8.41	6.19	13.17	7.93	6.82
		27°C	17.45	11.26	4.49	16.83	11.01	4.86	16.20	10.76	5.26	15.55	10.51	5.71	14.29	9.82	6.19	13.21	9.30	6.82
		30°C	17.54	13.89	4.49	16.93	13.59	4.86	16.32	13.29	5.27	15.70	12.96	5.72	14.45	12.12	6.20	13.41	11.45	6.84
		33°C	17.83	17.83	4.51	17.29	17.29	4.88	16.73	16.73	5.30	16.18	16.18	5.75	14.99	14.99	6.25	14.01	14.01	6.90
	22°C	27°C	19.14	9.57	4.57	18.47	9.35	4.95	17.78	9.11	5.37	17.08	8.86	5.82	15.69	8.27	6.31	14.51	7.80	6.95
		30°C	19.17	11.75	4.57	18.49	11.50	4.95	17.80	11.25	5.37	17.10	10.98	5.82	15.71	10.29	6.31	14.53	9.76	6.95
		33°C	19.20	13.76	4.57	18.53	13.50	4.95	17.85	13.23	5.37	17.15	12.94	5.83	15.78	12.14	6.32	14.62	11.53	6.96
		36°C	19.32	15.56	4.58	18.70	15.26	4.97	18.04	14.95	5.38	17.39	14.60	5.84	16.04	13.66	6.34	14.96	12.89	7.00
1550	16°C	21°C	16.40	10.78	4.45	15.80	10.51	4.81	15.19	10.23	5.21	14.56	9.95	5.65	13.36	9.26	6.13	12.31	8.72	6.75
		24°C	16.49	13.10	4.46	15.89	12.79	4.82	15.29	12.48	5.22	14.67	12.15	5.66	13.47	11.34	6.14	12.45	10.69	6.76
		27°C	16.75	15.02	4.47	16.20	14.63	4.84	15.66	14.22	5.24	15.09	13.78	5.69	13.95	12.76	6.18	13.00	11.92	6.82
		30°C	17.59	17.59	4.51	17.07	17.07	4.88	16.55	16.55	5.30	16.01	16.01	5.75	14.82	14.82	6.25	13.84	13.84	6.90
	19°C	24°C	18.05	10.34	4.52	17.40	10.09	4.90	16.74	9.83	5.31	16.06	9.56	5.75	14.73	8.92	6.24	13.60	8.41	6.87
		27°C	18.10	11.97	4.53	17.45	11.69	4.90	16.80	11.42	5.31	16.12	11.14	5.76	14.80	10.42	6.25	13.68	9.86	6.88
		30°C	18.25	14.73	4.54	17.61	14.41	4.91	16.98	14.08	5.32	16.33	13.72	5.77	15.03	12.82	6.26	13.95	12.08	6.91
		33°C	18.65	18.65	4.56	18.10	18.10	4.94	17.55	17.55	5.36	16.97	16.97	5.82	15.72	15.72	6.32	14.70	14.70	6.98
	22°C	27°C	19.81	10.12	4.61	19.10	9.90	4.99	18.39	9.65	5.41	17.65	9.39	5.87	16.21	8.77	6.36	14.98	8.28	7.01
		30°C	19.85	12.47	4.61	19.14	12.24	5.00	18.42	11.97	5.41	17.68	11.70	5.87	16.25	10.96	6.37	15.03	10.39	7.01
		33°C	19.92	14.62	4.62	19.23	14.36	5.00	18.52	14.06	5.42	17.79	13.75	5.88	16.37	12.89	6.38	15.17	12.23	7.03
		36°C	20.09	16.51	4.63	19.46	16.21	5.02	18.79	15.85	5.44	18.12	15.46	5.90	16.74	14.42	6.41	15.61	13.57	7.07
1720	16°C	21°C	16.39	10.88	4.49	15.82	10.61	4.84	15.24	10.35	5.23	14.64	10.08	5.69	13.45	9.39	6.20	12.42	8.85	6.89
		24°C	16.45	13.30	4.50	15.87	13.01	4.84	15.29	12.73	5.24	14.71	12.43	5.69	13.52	11.62	6.20	12.52	10.97	6.89
		27°C	16.72	15.25	4.51	16.21	14.87	4.86	15.69	14.48	5.26	15.17	14.04	5.72	14.05	13.27	6.24	13.13	12.52	6.94
		30°C	17.62	17.62	4.55	17.13	17.13	4.91	16.64	16.64	5.31	16.12	16.12	5.78	14.95	14.95	6.30	14.00	14.00	7.01
	19°C	24°C	18.04	10.43	4.57	17.42	10.18	4.92	16.80	9.94	5.32	16.15	9.68	5.78	14.85	9.04	6.29	13.74	8.55	6.99
		27°C	18.09	12.10	4.57	17.46	11.84	4.92	16.84	11.59	5.32	16.19	11.34	5.78	14.90	10.63	6.30	13.78	10.09	6.99
		30°C	18.18	15.03	4.58	17.58	14.71	4.93	16.98	14.39	5.33	16.37	14.05	5.79	15.11	13.13	6.31	14.08	12.38	7.01
		33°C	18.67	18.67	4.60	18.13	18.13	4.96	17.63	17.63	5.37	17.10	17.10	5.84	15.88	15.88	6.37	14.89	14.89	7.08
	22°C	27°C	19.83	10.23	4.66	19.15	9.99	5.02	18.48	9.76	5.42	17.78	9.52	5.89	16.37	8.90	6.41	15.17	8.42	7.10
		30°C	19.87	12.65	4.66	19.19	12.39	5.02	18.51	12.13	5.43	17.81	11.87	5.89	16.40	11.14	6.41	15.21	10.59	7.11
		33°C	19.92	14.90	4.66	19.24	14.64	5.02	18.55	14.38	5.43	17.87	14.10	5.89	16.47	13.25	6.41	15.30	12.59	7.11
		36°C	20.11	16.89	4.67	19.47	16.56	5.03	18.84	16.21	5.45	18.23	15.81	5.92	16.88	14.78	6.45	15.80	13.95	7.16

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

R410A Heatpump

Model: FDMQN25CXV1 - RYN25CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
210	16°C	21°C	2.62	1.83	0.73	2.53	1.79	0.79	2.44	1.74	0.85	2.34	1.69	0.93	2.15	1.57	1.01	1.98	1.48	1.11
		24°C	2.63	2.20	0.73	2.53	2.15	0.79	2.44	2.10	0.85	2.34	2.04	0.93	2.15	1.91	1.01	1.99	1.80	1.11
		27°C	2.65	2.49	0.73	2.56	2.43	0.79	2.47	2.38	0.86	2.38	2.31	0.93	2.19	2.15	1.01	2.04	2.02	1.11
		30°C	2.73	2.73	0.73	2.65	2.65	0.80	2.57	2.57	0.86	2.49	2.49	0.94	2.30	2.30	1.02	2.16	2.16	1.12
	19°C	24°C	2.89	1.71	0.74	2.79	1.67	0.80	2.69	1.62	0.87	2.58	1.58	0.94	2.37	1.47	1.02	2.19	1.38	1.13
		27°C	2.89	1.96	0.74	2.79	1.91	0.80	2.69	1.87	0.87	2.58	1.83	0.94	2.37	1.71	1.02	2.20	1.62	1.13
		30°C	2.90	2.42	0.74	2.80	2.37	0.80	2.70	2.31	0.87	2.60	2.26	0.94	2.39	2.11	1.02	2.22	2.00	1.13
		33°C	2.93	2.93	0.74	2.84	2.84	0.80	2.75	2.75	0.87	2.65	2.65	0.95	2.45	2.45	1.03	2.29	2.29	1.14
	22°C	27°C	3.18	1.68	0.75	3.07	1.63	0.82	2.96	1.59	0.89	2.84	1.55	0.96	2.62	1.44	1.04	2.42	1.36	1.15
		30°C	3.18	2.04	0.75	3.07	2.00	0.82	2.96	1.95	0.89	2.84	1.91	0.96	2.62	1.78	1.04	2.42	1.69	1.15
		33°C	3.18	2.38	0.75	3.07	2.34	0.82	2.96	2.29	0.89	2.85	2.25	0.96	2.62	2.11	1.04	2.43	2.00	1.15
		36°C	3.19	2.70	0.76	3.09	2.65	0.82	2.98	2.59	0.89	2.87	2.54	0.96	2.65	2.38	1.05	2.46	2.26	1.15
235	16°C	21°C	2.73	1.91	0.74	2.63	1.86	0.80	2.53	1.81	0.86	2.43	1.76	0.93	2.23	1.64	1.01	2.05	1.54	1.12
		24°C	2.74	2.32	0.74	2.64	2.27	0.80	2.54	2.21	0.86	2.44	2.16	0.94	2.24	2.01	1.01	2.07	1.90	1.12
		27°C	2.77	2.64	0.74	2.68	2.57	0.80	2.58	2.51	0.87	2.49	2.43	0.94	2.30	2.26	1.02	2.14	2.11	1.12
		30°C	2.88	2.88	0.74	2.80	2.80	0.81	2.72	2.72	0.87	2.63	2.63	0.95	2.43	2.43	1.03	2.28	2.28	1.14
	19°C	24°C	3.00	1.81	0.75	2.90	1.76	0.81	2.79	1.72	0.88	2.68	1.67	0.95	2.46	1.56	1.03	2.27	1.47	1.14
		27°C	3.01	2.08	0.75	2.90	2.04	0.81	2.79	1.99	0.88	2.68	1.94	0.95	2.46	1.82	1.03	2.28	1.72	1.14
		30°C	3.02	2.57	0.75	2.92	2.51	0.81	2.81	2.46	0.88	2.71	2.40	0.95	2.49	2.24	1.03	2.31	2.12	1.14
		33°C	3.07	3.07	0.75	2.98	2.98	0.81	2.89	2.89	0.88	2.79	2.79	0.96	2.58	2.58	1.04	2.42	2.42	1.15
	22°C	27°C	3.30	1.77	0.76	3.19	1.73	0.83	3.07	1.69	0.89	2.95	1.64	0.97	2.71	1.53	1.05	2.50	1.44	1.16
		30°C	3.31	2.17	0.76	3.19	2.13	0.83	3.07	2.08	0.89	2.95	2.03	0.97	2.71	1.90	1.05	2.51	1.81	1.16
		33°C	3.31	2.55	0.76	3.20	2.50	0.83	3.08	2.45	0.90	2.96	2.39	0.97	2.72	2.25	1.05	2.52	2.13	1.16
		36°C	3.33	2.88	0.76	3.22	2.82	0.83	3.11	2.76	0.90	3.00	2.70	0.97	2.77	2.53	1.06	2.58	2.38	1.17
250	16°C	21°C	2.83	1.99	0.74	2.72	1.94	0.80	2.62	1.89	0.87	2.51	1.84	0.94	2.30	1.71	1.02	2.12	1.61	1.13
		24°C	2.84	2.42	0.74	2.74	2.37	0.80	2.64	2.31	0.87	2.53	2.25	0.94	2.32	2.10	1.02	2.15	1.98	1.13
		27°C	2.89	2.78	0.74	2.79	2.71	0.81	2.70	2.63	0.87	2.60	2.55	0.95	2.41	2.36	1.03	2.24	2.20	1.14
		30°C	3.03	3.03	0.75	2.94	2.94	0.81	2.85	2.85	0.88	2.76	2.76	0.96	2.56	2.56	1.04	2.39	2.39	1.15
	19°C	24°C	3.11	1.91	0.75	3.00	1.87	0.82	2.89	1.82	0.88	2.77	1.77	0.96	2.54	1.65	1.04	2.35	1.55	1.15
		27°C	3.12	2.21	0.75	3.01	2.16	0.82	2.90	2.11	0.89	2.78	2.06	0.96	2.55	1.93	1.04	2.36	1.82	1.15
		30°C	3.15	2.72	0.76	3.04	2.66	0.82	2.93	2.60	0.89	2.82	2.54	0.96	2.59	2.37	1.04	2.41	2.23	1.15
		33°C	3.22	3.22	0.76	3.12	3.12	0.82	3.03	3.03	0.89	2.93	2.93	0.97	2.71	2.71	1.05	2.54	2.54	1.16
	22°C	27°C	3.42	1.87	0.77	3.29	1.83	0.83	3.17	1.78	0.90	3.04	1.74	0.98	2.80	1.62	1.06	2.58	1.53	1.17
		30°C	3.42	2.31	0.77	3.30	2.26	0.83	3.18	2.21	0.90	3.05	2.16	0.98	2.80	2.03	1.06	2.59	1.92	1.17
		33°C	3.43	2.70	0.77	3.32	2.66	0.83	3.19	2.60	0.90	3.07	2.54	0.98	2.82	2.38	1.06	2.62	2.26	1.17
		36°C	3.47	3.05	0.77	3.36	3.00	0.84	3.24	2.93	0.91	3.12	2.86	0.98	2.89	2.67	1.07	2.69	2.51	1.18

Model: FDMQN25CXV1 - RYN25CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	1.683	1.683	1.905	1.905	1.979	1.979	2.793	2.793	3.236	3.236	3.458	3.458	3.680	3.680
17°C	1.639	1.639	1.882	1.882	1.939	1.939	2.789	2.789	3.213	3.213	3.438	3.438	3.663	3.663
19°C	1.595	1.595	1.858	1.858	1.899	1.899	2.786	2.786	3.190	3.190	3.418	3.418	3.645	3.645
21°C	1.551	1.551	1.820	1.820	1.859	1.859	2.760	2.760	3.166	3.166	3.397	3.397	3.628	3.628
23°C	1.507	1.507	1.766	1.766	1.818	1.818	2.713	2.713	3.143	3.143	3.377	3.377	3.610	3.610
25°C	1.463	1.463	1.712	1.712	1.778	1.778	2.665	2.665	3.120	3.120	3.356	3.356	3.593	3.593
27°C	1.418	1.418	1.658	1.658	1.738	1.738	2.617	2.617	3.096	3.096	3.336	3.336	3.576	3.576
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN35CXV1 - RYN35CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
250	16°C	21°C	3.45	2.37	0.99	3.33	2.31	1.07	3.20	2.25	1.16	3.08	2.18	1.25	2.82	2.03	1.36	2.61	1.91	1.50
		24°C	3.45	2.84	0.99	3.33	2.78	1.07	3.21	2.71	1.16	3.08	2.64	1.25	2.83	2.47	1.36	2.62	2.33	1.50
		27°C	3.48	3.22	0.99	3.37	3.15	1.07	3.25	3.07	1.16	3.12	3.00	1.26	2.88	2.79	1.37	2.68	2.62	1.51
		30°C	3.59	3.59	0.99	3.49	3.49	1.08	3.38	3.38	1.17	3.27	3.27	1.27	3.03	3.03	1.38	2.84	2.84	1.52
	19°C	24°C	3.80	2.22	1.00	3.67	2.16	1.09	3.54	2.10	1.18	3.40	2.04	1.28	3.12	1.90	1.38	2.89	1.79	1.53
		27°C	3.81	2.53	1.00	3.67	2.48	1.09	3.54	2.42	1.18	3.40	2.36	1.28	3.12	2.21	1.38	2.89	2.09	1.53
		30°C	3.81	3.13	1.00	3.68	3.06	1.09	3.55	2.99	1.18	3.42	2.92	1.28	3.15	2.73	1.39	2.92	2.59	1.53
		33°C	3.86	3.86	1.01	3.73	3.73	1.09	3.61	3.61	1.18	3.49	3.49	1.28	3.23	3.23	1.39	3.02	3.02	1.54
	22°C	27°C	4.19	2.17	1.02	4.04	2.12	1.11	3.89	2.06	1.20	3.74	2.01	1.30	3.44	1.87	1.41	3.18	1.76	1.56
		30°C	4.19	2.64	1.02	4.04	2.59	1.11	3.89	2.53	1.20	3.74	2.47	1.30	3.44	2.31	1.41	3.19	2.19	1.56
		33°C	4.19	3.09	1.02	4.04	3.03	1.11	3.90	2.97	1.20	3.74	2.91	1.30	3.45	2.73	1.41	3.19	2.59	1.56
		36°C	4.20	3.50	1.02	4.06	3.43	1.11	3.92	3.36	1.20	3.78	3.28	1.30	3.49	3.08	1.42	3.24	2.92	1.56
370	16°C	21°C	3.59	2.48	1.00	3.46	2.41	1.08	3.33	2.35	1.17	3.19	2.28	1.27	2.93	2.13	1.37	2.70	2.00	1.51
		24°C	3.60	3.01	1.00	3.47	2.94	1.08	3.34	2.87	1.17	3.21	2.79	1.27	2.95	2.61	1.37	2.72	2.46	1.51
		27°C	3.64	3.41	1.00	3.52	3.34	1.08	3.40	3.25	1.17	3.28	3.15	1.27	3.03	2.93	1.38	2.82	2.74	1.52
		30°C	3.80	3.80	1.01	3.69	3.69	1.09	3.57	3.57	1.18	3.46	3.46	1.28	3.20	3.20	1.39	3.00	3.00	1.54
	19°C	24°C	3.96	2.34	1.01	3.81	2.28	1.10	3.67	2.23	1.19	3.52	2.16	1.29	3.24	2.02	1.40	2.99	1.90	1.54
		27°C	3.96	2.70	1.01	3.82	2.64	1.10	3.68	2.58	1.19	3.53	2.52	1.29	3.24	2.35	1.40	3.00	2.23	1.54
		30°C	3.98	3.33	1.01	3.84	3.26	1.10	3.71	3.18	1.19	3.56	3.11	1.29	3.28	2.90	1.40	3.04	2.74	1.54
		33°C	4.05	4.05	1.02	3.92	3.92	1.10	3.80	3.80	1.20	3.67	3.67	1.30	3.40	3.40	1.41	3.18	3.18	1.56
	22°C	27°C	4.35	2.29	1.03	4.19	2.24	1.12	4.04	2.18	1.21	3.88	2.12	1.31	3.56	1.98	1.42	3.30	1.87	1.57
		30°C	4.35	2.82	1.03	4.20	2.76	1.12	4.04	2.70	1.21	3.88	2.63	1.31	3.57	2.47	1.43	3.30	2.34	1.57
		33°C	4.36	3.30	1.03	4.21	3.24	1.12	4.05	3.17	1.21	3.89	3.10	1.32	3.58	2.91	1.43	3.32	2.76	1.57
		36°C	4.39	3.73	1.03	4.24	3.66	1.12	4.10	3.58	1.22	3.95	3.50	1.32	3.64	3.27	1.43	3.40	3.09	1.58
410	16°C	21°C	3.72	2.58	1.00	3.59	2.52	1.09	3.45	2.45	1.18	3.31	2.38	1.28	3.03	2.22	1.38	2.80	2.09	1.52
		24°C	3.74	3.14	1.01	3.61	3.07	1.09	3.47	2.99	1.18	3.33	2.91	1.28	3.06	2.72	1.39	2.83	2.56	1.53
		27°C	3.80	3.60	1.01	3.68	3.51	1.09	3.55	3.41	1.18	3.43	3.30	1.28	3.17	3.06	1.39	2.95	2.86	1.54
		30°C	3.99	3.99	1.02	3.88	3.88	1.10	3.76	3.76	1.20	3.63	3.63	1.30	3.36	3.36	1.41	3.14	3.14	1.56
	19°C	24°C	4.10	2.48	1.02	3.95	2.42	1.11	3.80	2.36	1.20	3.65	2.29	1.30	3.35	2.14	1.41	3.09	2.02	1.55
		27°C	4.11	2.87	1.02	3.96	2.80	1.11	3.81	2.74	1.20	3.66	2.67	1.30	3.36	2.50	1.41	3.11	2.36	1.55
		30°C	4.14	3.53	1.02	4.00	3.45	1.11	3.85	3.37	1.20	3.71	3.29	1.30	3.41	3.07	1.41	3.17	2.90	1.56
		33°C	4.23	4.23	1.03	4.11	4.11	1.12	3.98	3.98	1.21	3.85	3.85	1.31	3.57	3.57	1.43	3.34	3.34	1.58
	22°C	27°C	4.50	2.43	1.04	4.34	2.37	1.13	4.17	2.31	1.22	4.01	2.25	1.32	3.68	2.10	1.44	3.40	1.98	1.58
		30°C	4.51	2.99	1.04	4.35	2.93	1.13	4.18	2.87	1.22	4.01	2.80	1.33	3.69	2.63	1.44	3.41	2.49	1.58
		33°C	4.52	3.50	1.04	4.37	3.44	1.13	4.21	3.37	1.22	4.04	3.30	1.33	3.72	3.09	1.44	3.44	2.93	1.59
		36°C	4.56	3.96	1.04	4.42	3.88	1.13	4.27	3.80	1.23	4.11	3.70	1.33	3.80	3.46	1.45	3.55	3.25	1.60

Model: FDMQN35CXV1 - RYN35CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	2.126	2.126	2.406	2.406	2.500	2.500	3.531	3.531	4.088	4.088	4.368	4.368	4.649	4.649
17°C	2.070	2.070	2.358	2.358	2.432	2.432	3.528	3.528	3.967	3.967	4.238	4.238	4.509	4.509
19°C	2.015	2.015	2.310	2.310	2.363	2.363	3.523	3.523	3.846	3.846	4.108	4.108	4.369	4.369
21°C	1.959	1.959	2.247	2.247	2.295	2.295	3.431	3.431	3.725	3.725	3.977	3.977	4.229	4.229
23°C	1.903	1.903	2.170	2.170	2.227	2.227	3.258	3.258	3.604	3.604	3.847	3.847	4.090	4.090
25°C	1.847	1.847	2.093	2.093	2.159	2.159	3.086	3.086	3.483	3.483	3.716	3.716	3.950	3.950
27°C	1.792	1.792	2.016	2.016	2.091	2.091	2.913	2.913	3.362	3.362	3.586	3.586	3.810	3.810
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN50CXV1 - RYN50CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
480	16°C	21°C	4.98	3.48	1.34	4.80	3.39	1.45	4.63	3.30	1.57	4.44	3.20	1.70	4.08	2.98	1.84	3.76	2.80	2.03
		24°C	4.99	4.17	1.34	4.81	4.07	1.45	4.63	3.98	1.57	4.45	3.88	1.70	4.08	3.62	1.84	3.78	3.42	2.03
		27°C	5.03	4.72	1.34	4.86	4.62	1.45	4.69	4.51	1.57	4.51	4.39	1.70	4.16	4.09	1.85	3.87	3.84	2.04
		30°C	5.18	5.18	1.35	5.03	5.03	1.46	4.88	4.88	1.58	4.72	4.72	1.72	4.38	4.38	1.86	4.10	4.10	2.06
	19°C	24°C	5.49	3.25	1.36	5.30	3.17	1.47	5.11	3.08	1.59	4.90	3.00	1.73	4.51	2.79	1.87	4.17	2.63	2.07
		27°C	5.50	3.72	1.36	5.30	3.63	1.47	5.11	3.55	1.59	4.91	3.46	1.73	4.51	3.24	1.88	4.17	3.07	2.07
		30°C	5.51	4.59	1.36	5.31	4.49	1.47	5.13	4.39	1.59	4.93	4.28	1.73	4.54	4.01	1.88	4.21	3.79	2.07
		33°C	5.57	5.57	1.36	5.39	5.39	1.48	5.21	5.21	1.60	5.04	5.04	1.74	4.66	4.66	1.89	4.36	4.36	2.08
	22°C	27°C	6.04	3.18	1.38	5.83	3.10	1.50	5.62	3.03	1.62	5.40	2.94	1.76	4.97	2.74	1.91	4.60	2.58	2.11
		30°C	6.04	3.88	1.38	5.84	3.79	1.50	5.62	3.71	1.62	5.40	3.62	1.76	4.97	3.39	1.91	4.60	3.21	2.11
		33°C	6.05	4.53	1.38	5.84	4.44	1.50	5.63	4.35	1.62	5.41	4.26	1.76	4.97	4.00	1.91	4.61	3.80	2.11
		36°C	6.07	5.13	1.38	5.87	5.03	1.50	5.66	4.92	1.63	5.46	4.82	1.77	5.03	4.52	1.92	4.68	4.28	2.11
558	16°C	21°C	5.18	3.63	1.35	4.99	3.53	1.46	4.80	3.44	1.58	4.61	3.34	1.71	4.23	3.11	1.86	3.90	2.93	2.05
		24°C	5.20	4.40	1.35	5.01	4.30	1.46	4.82	4.20	1.58	4.63	4.09	1.72	4.25	3.82	1.86	3.93	3.60	2.05
		27°C	5.26	5.00	1.35	5.08	4.89	1.46	4.91	4.76	1.59	4.73	4.62	1.72	4.37	4.29	1.87	4.07	4.01	2.06
		30°C	5.48	5.48	1.36	5.32	5.32	1.48	5.16	5.16	1.60	4.99	4.99	1.74	4.62	4.62	1.89	4.32	4.32	2.08
	19°C	24°C	5.71	3.43	1.37	5.50	3.35	1.48	5.30	3.26	1.61	5.08	3.17	1.74	4.67	2.95	1.89	4.31	2.78	2.08
		27°C	5.72	3.95	1.37	5.51	3.87	1.48	5.31	3.78	1.61	5.09	3.69	1.74	4.68	3.45	1.89	4.33	3.27	2.09
		30°C	5.74	4.88	1.37	5.54	4.77	1.49	5.35	4.66	1.61	5.14	4.55	1.75	4.73	4.26	1.90	4.39	4.02	2.09
		33°C	5.84	5.84	1.38	5.66	5.66	1.49	5.48	5.48	1.62	5.30	5.30	1.76	4.91	4.91	1.91	4.59	4.59	2.11
	22°C	27°C	6.27	3.36	1.40	6.05	3.28	1.51	5.83	3.20	1.64	5.59	3.11	1.78	5.14	2.90	1.93	4.75	2.74	2.12
		30°C	6.28	4.12	1.40	6.06	4.04	1.51	5.83	3.95	1.64	5.60	3.86	1.78	5.15	3.61	1.93	4.76	3.43	2.13
		33°C	6.29	4.83	1.40	6.07	4.74	1.51	5.85	4.64	1.64	5.62	4.54	1.78	5.17	4.26	1.93	4.79	4.05	2.13
		36°C	6.33	5.46	1.40	6.12	5.36	1.52	5.91	5.25	1.65	5.70	5.13	1.79	5.25	4.80	1.94	4.90	4.52	2.14
570	16°C	21°C	5.37	3.78	1.36	5.17	3.69	1.47	4.98	3.59	1.59	4.77	3.49	1.73	4.37	3.25	1.87	4.03	3.06	2.06
		24°C	5.40	4.60	1.36	5.20	4.49	1.47	5.01	4.38	1.60	4.81	4.27	1.73	4.41	3.98	1.88	4.08	3.75	2.07
		27°C	5.49	5.27	1.37	5.31	5.13	1.48	5.13	4.99	1.60	4.94	4.84	1.74	4.57	4.48	1.89	4.26	4.18	2.08
		30°C	5.76	5.76	1.38	5.59	5.59	1.49	5.42	5.42	1.62	5.24	5.24	1.76	4.85	4.85	1.91	4.53	4.53	2.11
	19°C	24°C	5.91	3.63	1.38	5.70	3.54	1.50	5.48	3.45	1.62	5.26	3.36	1.76	4.83	3.13	1.91	4.46	2.95	2.10
		27°C	5.93	4.20	1.38	5.72	4.10	1.50	5.50	4.01	1.62	5.28	3.91	1.76	4.85	3.66	1.91	4.48	3.46	2.10
		30°C	5.98	5.17	1.39	5.77	5.06	1.50	5.56	4.94	1.63	5.35	4.82	1.76	4.92	4.50	1.91	4.57	4.24	2.11
		33°C	6.11	6.11	1.39	5.93	5.93	1.51	5.75	5.75	1.64	5.56	5.56	1.78	5.15	5.15	1.93	4.81	4.81	2.13
	22°C	27°C	6.49	3.55	1.41	6.26	3.47	1.53	6.02	3.39	1.65	5.78	3.30	1.79	5.31	3.08	1.94	4.91	2.91	2.14
		30°C	6.50	4.38	1.41	6.27	4.30	1.53	6.03	4.20	1.65	5.79	4.11	1.79	5.32	3.85	1.95	4.92	3.65	2.14
		33°C	6.52	5.13	1.41	6.30	5.04	1.53	6.07	4.94	1.66	5.83	4.83	1.80	5.36	4.52	1.95	4.97	4.29	2.15
		36°C	6.58	5.79	1.41	6.38	5.69	1.53	6.16	5.56	1.66	5.93	5.43	1.80	5.48	5.06	1.96	5.11	4.76	2.16

Model: FDMQN50CXV1 - RYN50CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.278	3.278	3.710	3.710	3.854	3.854	5.438	5.438	6.302	6.302	6.735	6.735	7.167	7.167
17°C	3.192	3.192	3.609	3.609	3.777	3.777	5.432	5.432	6.266	6.266	6.705	6.705	7.145	7.145
19°C	3.106	3.106	3.509	3.509	3.701	3.701	5.425	5.425	6.230	6.230	6.676	6.676	7.122	7.122
21°C	3.020	3.020	3.427	3.427	3.624	3.624	5.381	5.381	6.194	6.194	6.647	6.647	7.100	7.100
23°C	2.934	2.934	3.363	3.363	3.548	3.548	5.299	5.299	6.157	6.157	6.618	6.618	7.078	7.078
25°C	2.848	2.848	3.300	3.300	3.472	3.472	5.217	5.217	6.121	6.121	6.589	6.589	7.056	7.056
27°C	2.762	2.762	3.237	3.237	3.395	3.395	5.135	5.135	6.085	6.085	6.559	6.559	7.034	7.034
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN50CXV1 - RYN50CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
480	16°C	21°C	4.98	3.48	1.36	4.80	3.39	1.47	4.63	3.30	1.59	4.44	3.20	1.73	4.08	2.98	1.87	3.76	2.80	2.07
		24°C	4.99	4.17	1.36	4.81	4.07	1.47	4.63	3.98	1.59	4.45	3.88	1.73	4.08	3.62	1.88	3.78	3.42	2.07
		27°C	5.03	4.72	1.36	4.86	4.62	1.47	4.69	4.51	1.60	4.51	4.39	1.73	4.16	4.09	1.88	3.87	3.84	2.08
		30°C	5.18	5.18	1.37	5.03	5.03	1.48	4.88	4.88	1.61	4.72	4.72	1.75	4.38	4.38	1.90	4.10	4.10	2.10
	19°C	24°C	5.49	3.25	1.38	5.30	3.17	1.50	5.11	3.08	1.62	4.90	3.00	1.76	4.51	2.79	1.91	4.17	2.63	2.10
		27°C	5.50	3.72	1.38	5.30	3.63	1.50	5.11	3.55	1.62	4.91	3.46	1.76	4.51	3.24	1.91	4.17	3.07	2.10
		30°C	5.51	4.59	1.38	5.31	4.49	1.50	5.13	4.39	1.62	4.93	4.28	1.76	4.54	4.01	1.91	4.21	3.79	2.11
		33°C	5.57	5.57	1.39	5.39	5.39	1.50	5.21	5.21	1.63	5.04	5.04	1.77	4.66	4.66	1.92	4.36	4.36	2.12
	22°C	27°C	6.04	3.18	1.41	5.83	3.10	1.52	5.62	3.03	1.65	5.40	2.94	1.79	4.97	2.74	1.94	4.60	2.58	2.14
		30°C	6.04	3.88	1.41	5.84	3.79	1.52	5.62	3.71	1.65	5.40	3.62	1.79	4.97	3.39	1.95	4.60	3.21	2.14
		33°C	6.05	4.53	1.41	5.84	4.44	1.53	5.63	4.35	1.65	5.41	4.26	1.79	4.97	4.00	1.95	4.61	3.80	2.14
		36°C	6.07	5.13	1.41	5.87	5.03	1.53	5.66	4.92	1.66	5.46	4.82	1.80	5.03	4.52	1.95	4.68	4.28	2.15
558	16°C	21°C	5.18	3.63	1.37	4.99	3.53	1.48	4.80	3.44	1.61	4.61	3.34	1.74	4.23	3.11	1.89	3.90	2.93	2.08
		24°C	5.20	4.40	1.37	5.01	4.30	1.49	4.82	4.20	1.61	4.63	4.09	1.75	4.25	3.82	1.89	3.93	3.60	2.09
		27°C	5.26	5.00	1.38	5.08	4.89	1.49	4.91	4.76	1.61	4.73	4.62	1.75	4.37	4.29	1.90	4.07	4.01	2.10
		30°C	5.48	5.48	1.39	5.32	5.32	1.50	5.16	5.16	1.63	4.99	4.99	1.77	4.62	4.62	1.92	4.32	4.32	2.12
	19°C	24°C	5.71	3.43	1.40	5.50	3.35	1.51	5.30	3.26	1.64	5.08	3.17	1.77	4.67	2.95	1.92	4.31	2.78	2.12
		27°C	5.72	3.95	1.40	5.51	3.87	1.51	5.31	3.78	1.64	5.09	3.69	1.78	4.68	3.45	1.93	4.33	3.27	2.12
		30°C	5.74	4.88	1.40	5.54	4.77	1.51	5.35	4.66	1.64	5.14	4.55	1.78	4.73	4.26	1.93	4.39	4.02	2.13
		33°C	5.84	5.84	1.40	5.66	5.66	1.52	5.48	5.48	1.65	5.30	5.30	1.79	4.91	4.91	1.94	4.59	4.59	2.15
	22°C	27°C	6.27	3.36	1.42	6.05	3.28	1.54	5.83	3.20	1.67	5.59	3.11	1.81	5.14	2.90	1.96	4.75	2.74	2.16
		30°C	6.28	4.12	1.42	6.06	4.04	1.54	5.83	3.95	1.67	5.60	3.86	1.81	5.15	3.61	1.96	4.76	3.43	2.16
		33°C	6.29	4.83	1.42	6.07	4.74	1.54	5.85	4.64	1.67	5.62	4.54	1.81	5.17	4.26	1.97	4.79	4.05	2.17
		36°C	6.33	5.46	1.42	6.12	5.36	1.54	5.91	5.25	1.67	5.70	5.13	1.82	5.25	4.80	1.97	4.90	4.52	2.18
570	16°C	21°C	5.37	3.78	1.38	5.17	3.69	1.50	4.98	3.59	1.62	4.77	3.49	1.76	4.37	3.25	1.91	4.03	3.06	2.10
		24°C	5.40	4.60	1.39	5.20	4.49	1.50	5.01	4.38	1.62	4.81	4.27	1.76	4.41	3.98	1.91	4.08	3.75	2.10
		27°C	5.49	5.27	1.39	5.31	5.13	1.50	5.13	4.99	1.63	4.94	4.84	1.77	4.57	4.48	1.92	4.26	4.18	2.12
		30°C	5.76	5.76	1.40	5.59	5.59	1.52	5.42	5.42	1.65	5.24	5.24	1.79	4.85	4.85	1.94	4.53	4.53	2.14
	19°C	24°C	5.91	3.63	1.41	5.70	3.54	1.52	5.48	3.45	1.65	5.26	3.36	1.79	4.83	3.13	1.94	4.46	2.95	2.14
		27°C	5.93	4.20	1.41	5.72	4.10	1.52	5.50	4.01	1.65	5.28	3.91	1.79	4.85	3.66	1.94	4.48	3.46	2.14
		30°C	5.98	5.17	1.41	5.77	5.06	1.53	5.56	4.94	1.66	5.35	4.82	1.80	4.92	4.50	1.95	4.57	4.24	2.15
		33°C	6.11	6.11	1.42	5.93	5.93	1.54	5.75	5.75	1.67	5.56	5.56	1.81	5.15	5.15	1.97	4.81	4.81	2.17
	22°C	27°C	6.49	3.55	1.43	6.26	3.47	1.55	6.02	3.39	1.68	5.78	3.30	1.83	5.31	3.08	1.98	4.91	2.91	2.18
		30°C	6.50	4.38	1.43	6.27	4.30	1.55	6.03	4.20	1.68	5.79	4.11	1.83	5.32	3.85	1.98	4.92	3.65	2.18
		33°C	6.52	5.13	1.44	6.30	5.04	1.56	6.07	4.94	1.69	5.83	4.83	1.83	5.36	4.52	1.98	4.97	4.29	2.19
		36°C	6.58	5.79	1.44	6.38	5.69	1.56	6.16	5.56	1.69	5.93	5.43	1.84	5.48	5.06	1.99	5.11	4.76	2.20

Model: FDMQN50CXV1 - RYN50CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.278	3.278	3.710	3.710	3.854	3.854	5.438	5.438	6.302	6.302	6.735	6.735	7.167	7.167
17°C	3.192	3.192	3.609	3.609	3.777	3.777	5.432	5.432	6.266	6.266	6.705	6.705	7.145	7.145
19°C	3.106	3.106	3.509	3.509	3.701	3.701	5.425	5.425	6.230	6.230	6.676	6.676	7.122	7.122
21°C	3.020	3.020	3.427	3.427	3.624	3.624	5.381	5.381	6.194	6.194	6.647	6.647	7.100	7.100
23°C	2.934	2.934	3.363	3.363	3.548	3.548	5.299	5.299	6.157	6.157	6.618	6.618	7.078	7.078
25°C	2.848	2.848	3.300	3.300	3.472	3.472	5.217	5.217	6.121	6.121	6.589	6.589	7.056	7.056
27°C	2.762	2.762	3.237	3.237	3.395	3.395	5.135	5.135	6.085	6.085	6.559	6.559	7.034	7.034
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN60CXV1 - RYN60CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
535	16°C	21°C	5.81	4.05	1.52	5.60	3.94	1.64	5.39	3.84	1.78	5.18	3.73	1.93	4.75	3.47	2.09	4.39	3.26	2.31
		24°C	5.82	4.85	1.52	5.61	4.74	1.64	5.40	4.63	1.78	5.19	4.51	1.93	4.76	4.21	2.09	4.41	3.98	2.31
		27°C	5.86	5.50	1.52	5.67	5.37	1.65	5.47	5.24	1.78	5.26	5.11	1.94	4.86	4.76	2.10	4.52	4.47	2.32
		30°C	6.04	6.04	1.53	5.87	5.87	1.66	5.69	5.69	1.80	5.51	5.51	1.95	5.11	5.11	2.12	4.78	4.78	2.34
	19°C	24°C	6.41	3.78	1.54	6.18	3.68	1.67	5.96	3.59	1.81	5.72	3.48	1.96	5.26	3.24	2.13	4.86	3.06	2.35
		27°C	6.41	4.32	1.54	6.19	4.23	1.67	5.96	4.13	1.81	5.72	4.03	1.96	5.26	3.77	2.13	4.87	3.57	2.35
		30°C	6.42	5.34	1.54	6.20	5.22	1.67	5.98	5.11	1.81	5.75	4.98	1.97	5.30	4.66	2.13	4.91	4.41	2.35
		33°C	6.50	6.50	1.55	6.29	6.29	1.68	6.08	6.08	1.82	5.87	5.87	1.97	5.44	5.44	2.14	5.08	5.08	2.37
	22°C	27°C	7.05	3.70	1.57	6.80	3.61	1.70	6.56	3.52	1.85	6.30	3.42	2.00	5.79	3.19	2.17	5.36	3.01	2.39
		30°C	7.05	4.51	1.57	6.81	4.41	1.70	6.56	4.31	1.85	6.30	4.21	2.00	5.80	3.94	2.17	5.36	3.74	2.39
		33°C	7.05	5.26	1.57	6.81	5.16	1.70	6.56	5.06	1.85	6.31	4.96	2.00	5.80	4.65	2.17	5.38	4.42	2.39
		36°C	7.08	5.97	1.57	6.84	5.85	1.71	6.61	5.73	1.85	6.37	5.60	2.01	5.87	5.25	2.18	5.46	4.98	2.40
660	16°C	21°C	6.04	4.22	1.53	5.83	4.11	1.66	5.60	4.00	1.80	5.38	3.89	1.95	4.93	3.62	2.11	4.55	3.41	2.33
		24°C	6.06	5.12	1.53	5.84	5.00	1.66	5.63	4.88	1.80	5.40	4.76	1.95	4.96	4.44	2.11	4.58	4.19	2.33
		27°C	6.14	5.82	1.54	5.93	5.68	1.66	5.72	5.54	1.80	5.52	5.37	1.96	5.10	4.99	2.12	4.75	4.67	2.34
		30°C	6.39	6.39	1.55	6.21	6.21	1.68	6.02	6.02	1.82	5.82	5.82	1.97	5.39	5.39	2.15	5.04	5.04	2.37
	19°C	24°C	6.66	3.99	1.56	6.42	3.89	1.69	6.18	3.79	1.83	5.93	3.69	1.98	5.45	3.44	2.15	5.03	3.24	2.37
		27°C	6.67	4.60	1.56	6.43	4.50	1.69	6.19	4.40	1.83	5.94	4.29	1.98	5.46	4.01	2.15	5.05	3.80	2.37
		30°C	6.70	5.68	1.56	6.47	5.55	1.69	6.24	5.43	1.83	6.00	5.30	1.99	5.52	4.95	2.16	5.12	4.68	2.38
		33°C	6.81	6.81	1.57	6.61	6.61	1.70	6.40	6.40	1.84	6.18	6.18	2.00	5.73	5.73	2.17	5.35	5.35	2.40
	22°C	27°C	7.32	3.91	1.59	7.06	3.82	1.72	6.80	3.72	1.86	6.53	3.62	2.02	6.00	3.38	2.19	5.55	3.19	2.41
		30°C	7.33	4.80	1.59	7.07	4.70	1.72	6.80	4.59	1.86	6.53	4.49	2.02	6.00	4.20	2.19	5.55	3.99	2.42
		33°C	7.34	5.62	1.59	7.08	5.52	1.72	6.82	5.40	1.87	6.55	5.29	2.02	6.03	4.96	2.20	5.59	4.71	2.42
		36°C	7.38	6.36	1.59	7.15	6.24	1.72	6.90	6.11	1.87	6.64	5.96	2.03	6.13	5.58	2.20	5.72	5.27	2.43
690	16°C	21°C	6.27	4.40	1.55	6.04	4.29	1.67	5.81	4.18	1.81	5.56	4.06	1.96	5.10	3.78	2.13	4.70	3.56	2.35
		24°C	6.30	5.35	1.55	6.07	5.22	1.67	5.84	5.10	1.81	5.61	4.96	1.97	5.15	4.63	2.13	4.76	4.37	2.35
		27°C	6.40	6.13	1.55	6.19	5.97	1.68	5.98	5.81	1.82	5.77	5.63	1.98	5.33	5.21	2.14	4.97	4.87	2.37
		30°C	6.72	6.72	1.57	6.52	6.52	1.70	6.32	6.32	1.84	6.12	6.12	2.00	5.66	5.66	2.17	5.29	5.29	2.40
	19°C	24°C	6.90	4.22	1.57	6.65	4.12	1.70	6.40	4.01	1.84	6.14	3.91	2.00	5.63	3.64	2.17	5.20	3.43	2.39
		27°C	6.92	4.89	1.57	6.67	4.78	1.70	6.42	4.66	1.84	6.16	4.55	2.00	5.66	4.26	2.17	5.23	4.03	2.39
		30°C	6.98	6.01	1.58	6.73	5.88	1.71	6.49	5.75	1.85	6.24	5.61	2.00	5.74	5.24	2.18	5.33	4.93	2.40
		33°C	7.13	7.13	1.58	6.92	6.92	1.72	6.70	6.70	1.86	6.48	6.48	2.02	6.01	6.01	2.20	5.62	5.62	2.42
	22°C	27°C	7.57	4.13	1.60	7.30	4.04	1.73	7.03	3.94	1.88	6.74	3.84	2.04	6.19	3.58	2.21	5.72	3.38	2.43
		30°C	7.58	5.09	1.60	7.31	5.00	1.74	7.04	4.89	1.88	6.76	4.78	2.04	6.21	4.47	2.21	5.74	4.24	2.44
		33°C	7.61	5.97	1.60	7.35	5.87	1.74	7.08	5.74	1.88	6.80	5.62	2.04	6.26	5.26	2.22	5.80	5.00	2.44
		36°C	7.68	6.74	1.61	7.44	6.62	1.74	7.18	6.47	1.89	6.92	6.31	2.05	6.40	5.89	2.23	5.97	5.54	2.46

Model: FDMQN60CXV1 - RYN60CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.898	3.898	4.412	4.412	4.583	4.583	6.467	6.467	7.495	7.495	8.009	8.009	8.523	8.523
17°C	3.796	3.796	4.406	4.406	4.503	4.503	6.459	6.459	7.507	7.507	8.037	8.037	8.568	8.568
19°C	3.694	3.694	4.399	4.399	4.422	4.422	6.452	6.452	7.519	7.519	8.066	8.066	8.613	8.613
21°C	3.591	3.591	4.325	4.325	4.342	4.342	6.433	6.433	7.532	7.532	8.095	8.095	8.658	8.658
23°C	3.489	3.489	4.182	4.182	4.261	4.261	6.404	6.404	7.544	7.544	8.123	8.123	8.703	8.703
25°C	3.387	3.387	4.039	4.039	4.181	4.181	6.374	6.374	7.556	7.556	8.152	8.152	8.748	8.748
27°C	3.285	3.285	3.897	3.897	4.101	4.101	6.345	6.345	7.569	7.569	8.181	8.181	8.792	8.792
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN60CXV1 - RYN60CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
535	16°C	21°C	6.32	4.40	1.73	6.09	4.29	1.87	5.87	4.17	2.02	5.63	4.05	2.19	5.17	3.77	2.38	4.77	3.55	2.62
		24°C	6.33	5.27	1.73	6.10	5.15	1.87	5.88	5.03	2.02	5.64	4.91	2.20	5.18	4.58	2.38	4.79	4.32	2.63
		27°C	6.38	5.98	1.73	6.16	5.84	1.87	5.95	5.70	2.03	5.72	5.56	2.20	5.28	5.17	2.39	4.91	4.86	2.64
		30°C	6.57	6.57	1.74	6.38	6.38	1.88	6.19	6.19	2.04	5.99	5.99	2.22	5.55	5.55	2.41	5.20	5.20	2.66
	19°C	24°C	6.97	4.11	1.76	6.72	4.01	1.90	6.48	3.90	2.06	6.22	3.79	2.23	5.72	3.53	2.42	5.29	3.32	2.67
		27°C	6.97	4.70	1.76	6.73	4.60	1.90	6.48	4.49	2.06	6.23	4.38	2.23	5.72	4.10	2.42	5.29	3.88	2.67
		30°C	6.98	5.80	1.76	6.74	5.68	1.90	6.50	5.56	2.06	6.26	5.42	2.24	5.76	5.07	2.43	5.35	4.80	2.67
		33°C	7.07	7.07	1.76	6.84	6.84	1.91	6.62	6.62	2.07	6.39	6.39	2.24	5.91	5.91	2.44	5.53	5.53	2.69
	22°C	27°C	7.67	4.02	1.79	7.40	3.93	1.94	7.13	3.83	2.10	6.85	3.72	2.28	6.30	3.47	2.47	5.83	3.27	2.72
		30°C	7.67	4.90	1.79	7.40	4.80	1.94	7.13	4.69	2.10	6.85	4.58	2.28	6.30	4.29	2.47	5.84	4.06	2.72
		33°C	7.67	5.73	1.79	7.41	5.62	1.94	7.14	5.51	2.10	6.86	5.39	2.28	6.31	5.06	2.47	5.85	4.81	2.72
		36°C	7.70	6.49	1.79	7.44	6.36	1.94	7.19	6.23	2.10	6.92	6.09	2.28	6.39	5.71	2.48	5.94	5.42	2.73
660	16°C	21°C	6.57	4.59	1.74	6.34	4.47	1.89	6.10	4.36	2.04	5.85	4.23	2.21	5.37	3.94	2.40	4.95	3.71	2.65
		24°C	6.59	5.58	1.74	6.36	5.44	1.89	6.12	5.31	2.04	5.87	5.18	2.22	5.39	4.83	2.40	4.99	4.56	2.65
		27°C	6.67	6.33	1.75	6.45	6.18	1.89	6.23	6.03	2.05	6.00	5.85	2.22	5.54	5.43	2.41	5.16	5.08	2.66
		30°C	6.95	6.95	1.76	6.75	6.75	1.91	6.54	6.54	2.07	6.33	6.33	2.25	5.87	5.87	2.44	5.48	5.48	2.69
	19°C	24°C	7.24	4.35	1.77	6.98	4.24	1.92	6.72	4.13	2.08	6.45	4.01	2.25	5.93	3.74	2.44	5.47	3.52	2.69
		27°C	7.26	5.00	1.77	7.00	4.89	1.92	6.73	4.78	2.08	6.46	4.67	2.25	5.94	4.37	2.45	5.49	4.13	2.69
		30°C	7.29	6.17	1.77	7.04	6.04	1.92	6.78	5.91	2.08	6.52	5.76	2.26	6.01	5.39	2.45	5.57	5.09	2.70
		33°C	7.41	7.41	1.78	7.19	7.19	1.93	6.96	6.96	2.09	6.73	6.73	2.27	6.23	6.23	2.47	5.82	5.82	2.73
	22°C	27°C	7.96	4.25	1.80	7.68	4.15	1.95	7.39	4.05	2.12	7.10	3.94	2.30	6.52	3.67	2.49	6.03	3.47	2.74
		30°C	7.97	5.22	1.81	7.69	5.11	1.96	7.40	5.00	2.12	7.11	4.88	2.30	6.53	4.57	2.49	6.04	4.34	2.75
		33°C	7.98	6.12	1.81	7.70	6.00	1.96	7.42	5.88	2.12	7.13	5.75	2.30	6.56	5.40	2.50	6.08	5.12	2.75
		36°C	8.03	6.92	1.81	7.77	6.78	1.96	7.50	6.64	2.13	7.23	6.49	2.31	6.67	6.07	2.50	6.22	5.73	2.76
690	16°C	21°C	6.82	4.79	1.76	6.57	4.67	1.90	6.31	4.55	2.06	6.05	4.42	2.23	5.55	4.12	2.42	5.12	3.87	2.67
		24°C	6.85	5.82	1.76	6.60	5.68	1.90	6.35	5.55	2.06	6.10	5.40	2.23	5.60	5.04	2.42	5.17	4.75	2.67
		27°C	6.96	6.67	1.76	6.73	6.50	1.91	6.51	6.32	2.07	6.27	6.12	2.25	5.80	5.67	2.44	5.40	5.30	2.69
		30°C	7.31	7.31	1.78	7.10	7.10	1.93	6.88	6.88	2.09	6.65	6.65	2.27	6.16	6.16	2.47	5.75	5.75	2.72
	19°C	24°C	7.50	4.60	1.79	7.23	4.48	1.93	6.96	4.37	2.10	6.67	4.25	2.27	6.12	3.96	2.46	5.65	3.74	2.71
		27°C	7.52	5.32	1.79	7.25	5.20	1.94	6.98	5.07	2.10	6.70	4.95	2.27	6.15	4.63	2.47	5.69	4.38	2.72
		30°C	7.59	6.54	1.79	7.32	6.40	1.94	7.06	6.25	2.10	6.79	6.10	2.28	6.25	5.70	2.47	5.80	5.37	2.73
		33°C	7.75	7.75	1.80	7.52	7.52	1.95	7.29	7.29	2.12	7.05	7.05	2.30	6.53	6.53	2.50	6.11	6.11	2.76
	22°C	27°C	8.23	4.50	1.82	7.94	4.40	1.97	7.64	4.29	2.14	7.33	4.17	2.32	6.74	3.90	2.51	6.23	3.68	2.77
		30°C	8.25	5.54	1.82	7.96	5.44	1.97	7.66	5.32	2.14	7.35	5.20	2.32	6.75	4.87	2.51	6.24	4.61	2.77
		33°C	8.28	6.50	1.82	7.99	6.38	1.98	7.70	6.25	2.14	7.40	6.11	2.32	6.80	5.73	2.52	6.30	5.44	2.77
		36°C	8.35	7.33	1.83	8.09	7.20	1.98	7.81	7.04	2.15	7.53	6.87	2.33	6.96	6.41	2.53	6.49	6.03	2.79

Model: FDMQN60CXV1 - RYN60CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.110	4.110	4.652	4.652	4.833	4.833	6.820	6.820	7.904	7.904	8.446	8.446	8.987	8.987
17°C	4.003	4.003	4.444	4.444	4.725	4.725	6.812	6.812	7.794	7.794	8.335	8.335	8.877	8.877
19°C	3.895	3.895	4.236	4.236	4.617	4.617	6.804	6.804	7.684	7.684	8.225	8.225	8.766	8.766
21°C	3.787	3.787	4.114	4.114	4.508	4.508	6.709	6.709	7.574	7.574	8.115	8.115	8.655	8.655
23°C	3.679	3.679	4.077	4.077	4.400	4.400	6.527	6.527	7.464	7.464	8.004	8.004	8.545	8.545
25°C	3.572	3.572	4.041	4.041	4.292	4.292	6.345	6.345	7.354	7.354	7.894	7.894	8.434	8.434
27°C	3.464	3.464	4.004	4.004	4.184	4.184	6.164	6.164	7.244	7.244	7.784	7.784	8.324	8.324
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN71CXV1 - RQ71CXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
710	16°C	21°C	7.19	5.09	2.20	6.93	4.96	2.38	6.68	4.83	2.57	6.41	4.69	2.79	5.88	4.36	3.03	5.43	4.10	3.34
		24°C	7.20	6.10	2.20	6.94	5.96	2.38	6.68	5.82	2.57	6.42	5.67	2.79	5.90	5.30	3.03	5.45	5.00	3.34
		27°C	7.25	6.91	2.20	7.01	6.76	2.38	6.77	6.60	2.58	6.51	6.43	2.80	6.01	5.98	3.04	5.59	5.59	3.35
		30°C	7.48	7.48	2.21	7.26	7.26	2.39	7.04	7.04	2.60	6.82	6.82	2.82	6.32	6.32	3.06	5.91	5.91	3.38
	19°C	24°C	7.93	4.75	2.23	7.65	4.63	2.41	7.37	4.51	2.62	7.08	4.38	2.84	6.50	4.08	3.08	6.01	3.84	3.39
		27°C	7.93	5.44	2.23	7.65	5.32	2.42	7.37	5.19	2.62	7.08	5.07	2.84	6.51	4.74	3.08	6.02	4.49	3.39
		30°C	7.95	6.71	2.23	7.67	6.57	2.42	7.40	6.42	2.62	7.12	6.27	2.84	6.55	5.86	3.08	6.08	5.55	3.40
		33°C	8.04	8.04	2.24	7.78	7.78	2.42	7.53	7.53	2.63	7.27	7.27	2.85	6.73	6.73	3.10	6.29	6.29	3.42
	22°C	27°C	8.72	4.65	2.27	8.42	4.54	2.46	8.11	4.43	2.67	7.80	4.30	2.89	7.17	4.01	3.14	6.64	3.78	3.46
		30°C	8.72	5.67	2.27	8.42	5.55	2.46	8.11	5.42	2.67	7.80	5.29	2.89	7.17	4.96	3.14	6.64	4.70	3.46
		33°C	8.73	6.62	2.27	8.43	6.50	2.46	8.12	6.37	2.67	7.80	6.24	2.89	7.18	5.85	3.14	6.66	5.56	3.46
		36°C	8.76	7.51	2.27	8.47	7.36	2.46	8.17	7.21	2.67	7.88	7.05	2.90	7.26	6.61	3.15	6.75	6.27	3.47
770	16°C	21°C	7.48	5.31	2.22	7.21	5.17	2.40	6.93	5.03	2.59	6.65	4.89	2.81	6.10	4.55	3.05	5.63	4.29	3.36
		24°C	7.50	6.44	2.22	7.23	6.29	2.40	6.96	6.14	2.60	6.68	5.99	2.82	6.13	5.59	3.05	5.67	5.27	3.37
		27°C	7.59	7.32	2.22	7.33	7.15	2.40	7.08	6.96	2.60	6.83	6.76	2.83	6.30	6.27	3.07	5.87	5.87	3.39
		30°C	7.91	7.91	2.24	7.68	7.68	2.42	7.44	7.44	2.63	7.20	7.20	2.85	6.67	6.67	3.10	6.24	6.24	3.42
	19°C	24°C	8.24	5.02	2.25	7.94	4.89	2.44	7.65	4.77	2.64	7.34	4.64	2.86	6.74	4.32	3.11	6.23	4.07	3.42
		27°C	8.25	5.78	2.25	7.96	5.66	2.44	7.66	5.53	2.64	7.35	5.40	2.86	6.75	5.04	3.11	6.24	4.78	3.42
		30°C	8.29	7.13	2.26	8.00	6.98	2.44	7.72	6.82	2.65	7.42	6.66	2.87	6.83	6.22	3.11	6.34	5.88	3.43
		33°C	8.43	8.43	2.26	8.17	8.17	2.45	7.91	7.91	2.66	7.65	7.65	2.89	7.08	7.08	3.14	6.62	6.62	3.46
	22°C	27°C	9.05	4.92	2.29	8.73	4.80	2.48	8.41	4.68	2.69	8.07	4.55	2.92	7.42	4.25	3.17	6.86	4.01	3.49
		30°C	9.06	6.03	2.29	8.74	5.91	2.49	8.42	5.78	2.69	8.08	5.64	2.92	7.43	5.28	3.17	6.87	5.01	3.49
		33°C	9.08	7.07	2.29	8.76	6.93	2.49	8.44	6.79	2.70	8.11	6.65	2.92	7.46	6.24	3.17	6.91	5.92	3.49
		36°C	9.13	7.99	2.30	8.84	7.84	2.49	8.53	7.68	2.70	8.22	7.50	2.93	7.58	7.02	3.18	7.07	6.62	3.51
810	16°C	21°C	7.75	5.54	2.23	7.47	5.40	2.42	7.18	5.25	2.62	6.88	5.11	2.84	6.31	4.76	3.08	5.82	4.48	3.39
		24°C	7.79	6.73	2.24	7.51	6.57	2.42	7.23	6.41	2.62	6.94	6.24	2.84	6.37	5.82	3.08	5.88	5.49	3.40
		27°C	7.92	7.71	2.24	7.66	7.51	2.43	7.40	7.30	2.63	7.14	7.08	2.85	6.59	6.55	3.10	6.14	6.12	3.42
		30°C	8.31	8.31	2.26	8.07	8.07	2.45	7.82	7.82	2.66	7.57	7.57	2.89	7.01	7.01	3.14	6.54	6.54	3.46
	19°C	24°C	8.53	5.31	2.27	8.22	5.18	2.46	7.91	5.05	2.66	7.59	4.91	2.89	6.96	4.58	3.13	6.43	4.32	3.45
		27°C	8.56	6.14	2.27	8.25	6.00	2.46	7.94	5.86	2.67	7.62	5.72	2.89	7.00	5.35	3.13	6.47	5.06	3.45
		30°C	8.63	7.56	2.28	8.32	7.40	2.46	8.02	7.23	2.67	7.72	7.05	2.90	7.11	6.58	3.14	6.60	6.20	3.47
		33°C	8.82	8.82	2.29	8.56	8.56	2.48	8.29	8.29	2.69	8.02	8.02	2.92	7.43	7.43	3.17	6.95	6.95	3.50
	22°C	27°C	9.36	5.20	2.31	9.03	5.08	2.51	8.69	4.95	2.72	8.34	4.82	2.94	7.66	4.50	3.19	7.08	4.25	3.52
		30°C	9.38	6.40	2.31	9.05	6.28	2.51	8.71	6.15	2.72	8.36	6.01	2.95	7.68	5.63	3.20	7.10	5.33	3.52
		33°C	9.41	7.51	2.32	9.09	7.38	2.51	8.75	7.22	2.72	8.41	7.06	2.95	7.74	6.62	3.20	7.17	6.28	3.53
		36°C	9.50	8.48	2.32	9.20	8.32	2.52	8.88	8.14	2.73	8.56	7.94	2.96	7.91	7.40	3.22	7.38	6.97	3.55
850	16°C	21°C	7.75	5.58	2.26	7.48	5.45	2.43	7.20	5.32	2.63	6.92	5.18	2.85	6.36	4.82	3.11	5.87	4.54	3.46
		24°C	7.78	6.83	2.26	7.50	6.68	2.43	7.23	6.54	2.63	6.95	6.38	2.86	6.39	5.97	3.11	5.92	5.63	3.46
		27°C	7.90	7.83	2.26	7.66	7.63	2.44	7.42	7.42	2.64	7.17	7.17	2.87	6.64	6.64	3.13	6.21	6.21	3.48
		30°C	8.33	8.33	2.28	8.10	8.10	2.46	7.86	7.86	2.67	7.62	7.62	2.90	7.07	7.07	3.16	6.62	6.62	3.52
	19°C	24°C	8.53	5.35	2.29	8.23	5.23	2.47	7.94	5.10	2.67	7.63	4.97	2.90	7.02	4.64	3.16	6.50	4.39	3.51
		27°C	8.55	6.21	2.29	8.25	6.08	2.47	7.96	5.95	2.67	7.65	5.82	2.90	7.04	5.46	3.16	6.52	5.18	3.51
		30°C	8.59	7.71	2.30	8.31	7.55	2.47	8.03	7.39	2.68	7.74	7.21	2.91	7.14	6.74	3.17	6.66	6.35	3.52
		33°C	8.82	8.82	2.31	8.57	8.57	2.49	8.33	8.33	2.70	8.08	8.08	2.93	7.50	7.50	3.20	7.04	7.04	3.55
	22°C	27°C	9.37	5.25	2.34	9.05	5.13	2.52	8.73	5.01	2.72	8.40	4.89	2.95	7.74	4.57	3.21	7.17	4.32	3.56
		30°C	9.39	6.49	2.34	9.07	6.36	2.52	8.75	6.23	2.72	8.42	6.10	2.96	7.75	5.72	3.22	7.19	5.44	3.57
		33°C	9.42	7.65	2.34	9.09	7.52	2.52	8.77	7.38	2.73	8.45	7.24	2.96	7.78	6.80	3.22	7.23	6.46	3.57
		36°C	9.50	8.67	2.34	9.20	8.50	2.53	8.91	8.32	2.73	8.62	8.12	2.97	7.98	7.59	3.23	7.47	7.16	3.59

Model: FDMQN71CXV1 - RQ71CXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.607	4.607	5.214	5.214	5.416	5.416	7.643	7.643	8.858	8.858	9.465	9.465	10.072	10.072
17°C	4.486	4.486	5.063	5.063	5.260	5.260	7.634	7.634	8.551	8.551	9.132	9.132	9.712	9.712
19°C	4.365	4.365	4.911	4.911	5.104	5.104	7.625	7.625	8.244	8.244	8.798	8.798	9.352	9.352
21°C	4.244	4.244	4.764	4.764	4.948	4.948	7.406	7.406	7.937	7.937	8.465	8.465	8.993	8.993
23°C	4.124	4.124	4.619	4.619	4.792	4.792	6.978	6.978	7.631	7.631	8.132	8.132	8.633	8.633
25°C	4.003	4.003	4.474	4.474	4.635	4.635	6.550	6.550	7.324	7.324	7.799	7.799	8.273	8.273
27°C	3.882	3.882	4.330	4.330	4.479	4.479	6.122	6.122	7.017	7.017	7.465	7.465	7.913	7.913
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN71CXV1 - RQ71CXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
710	16°C	21°C	7.46	5.28	2.19	7.20	5.14	2.37	6.93	5.00	2.56	6.65	4.86	2.78	6.11	4.52	3.02	5.64	4.25	3.32
		24°C	7.47	6.32	2.19	7.21	6.18	2.37	6.94	6.03	2.56	6.66	5.88	2.78	6.12	5.49	3.02	5.66	5.18	3.33
		27°C	7.53	7.17	2.19	7.28	7.00	2.37	7.02	6.84	2.57	6.76	6.66	2.79	6.24	6.20	3.03	5.80	5.80	3.34
		30°C	7.76	7.76	2.20	7.54	7.54	2.39	7.31	7.31	2.59	7.07	7.07	2.81	6.56	6.56	3.05	6.14	6.14	3.37
	19°C	24°C	8.23	4.93	2.22	7.94	4.80	2.41	7.65	4.68	2.61	7.35	4.54	2.83	6.75	4.23	3.07	6.24	3.99	3.38
		27°C	8.24	5.64	2.22	7.95	5.51	2.41	7.65	5.39	2.61	7.35	5.25	2.83	6.76	4.92	3.07	6.25	4.66	3.38
		30°C	8.25	6.96	2.22	7.96	6.81	2.41	7.68	6.66	2.61	7.39	6.50	2.83	6.80	6.08	3.07	6.31	5.75	3.39
		33°C	8.35	8.35	2.23	8.07	8.07	2.41	7.81	7.81	2.62	7.55	7.55	2.84	6.98	6.98	3.09	6.53	6.53	3.41
	22°C	27°C	9.05	4.82	2.26	8.74	4.71	2.45	8.42	4.59	2.66	8.09	4.46	2.88	7.44	4.16	3.13	6.89	3.92	3.45
		30°C	9.06	5.88	2.26	8.74	5.75	2.45	8.42	5.62	2.66	8.09	5.49	2.88	7.44	5.14	3.13	6.89	4.87	3.45
		33°C	9.06	6.87	2.26	8.75	6.73	2.45	8.43	6.60	2.66	8.10	6.46	2.88	7.45	6.07	3.13	6.91	5.77	3.45
		36°C	9.09	7.79	2.27	8.79	7.63	2.46	8.49	7.47	2.66	8.18	7.31	2.89	7.54	6.85	3.14	7.01	6.50	3.46
770	16°C	21°C	7.76	5.50	2.21	7.48	5.36	2.39	7.20	5.22	2.59	6.90	5.07	2.80	6.33	4.72	3.04	5.84	4.44	3.35
		24°C	7.78	6.68	2.21	7.50	6.52	2.39	7.22	6.37	2.59	6.93	6.21	2.81	6.37	5.79	3.04	5.89	5.46	3.36
		27°C	7.88	7.59	2.21	7.61	7.41	2.40	7.35	7.22	2.60	7.09	7.00	2.82	6.54	6.50	3.06	6.10	6.08	3.37
		30°C	8.21	8.21	2.23	7.97	7.97	2.42	7.73	7.73	2.62	7.48	7.48	2.84	6.93	6.93	3.09	6.47	6.47	3.41
	19°C	24°C	8.55	5.21	2.24	8.25	5.07	2.43	7.94	4.94	2.63	7.62	4.81	2.85	7.00	4.48	3.09	6.46	4.22	3.41
		27°C	8.57	6.00	2.24	8.26	5.86	2.43	7.95	5.73	2.63	7.63	5.59	2.85	7.01	5.23	3.10	6.48	4.95	3.41
		30°C	8.61	7.40	2.25	8.31	7.24	2.43	8.01	7.07	2.64	7.70	6.90	2.86	7.09	6.45	3.10	6.58	6.10	3.42
		33°C	8.75	8.75	2.25	8.48	8.48	2.44	8.21	8.21	2.65	7.94	7.94	2.88	7.35	7.35	3.13	6.88	6.88	3.45
	22°C	27°C	9.39	5.10	2.29	9.06	4.98	2.48	8.73	4.85	2.68	8.38	4.72	2.91	7.70	4.40	3.16	7.12	4.15	3.48
		30°C	9.41	6.25	2.29	9.07	6.12	2.48	8.74	5.99	2.68	8.39	5.85	2.91	7.71	5.48	3.16	7.13	5.20	3.48
		33°C	9.42	7.33	2.29	9.10	7.19	2.48	8.76	7.04	2.69	8.42	6.89	2.91	7.74	6.46	3.16	7.18	6.14	3.48
		36°C	9.48	8.28	2.29	9.17	8.13	2.48	8.85	7.96	2.69	8.53	7.77	2.92	7.87	7.27	3.17	7.34	6.86	3.50
810	16°C	21°C	8.05	5.74	2.23	7.75	5.59	2.41	7.45	5.45	2.61	7.15	5.29	2.83	6.55	4.93	3.06	6.04	4.64	3.38
		24°C	8.09	6.98	2.23	7.80	6.81	2.41	7.50	6.64	2.61	7.20	6.47	2.83	6.61	6.04	3.07	6.11	5.69	3.38
		27°C	8.22	7.99	2.23	7.95	7.79	2.42	7.68	7.57	2.62	7.41	7.33	2.84	6.84	6.79	3.09	6.38	6.34	3.41
		30°C	8.63	8.63	2.25	8.38	8.38	2.44	8.12	8.12	2.65	7.85	7.85	2.88	7.27	7.27	3.12	6.79	6.79	3.45
	19°C	24°C	8.86	5.51	2.26	8.54	5.37	2.45	8.21	5.23	2.65	7.88	5.09	2.88	7.23	4.75	3.12	6.67	4.48	3.44
		27°C	8.88	6.37	2.26	8.56	6.22	2.45	8.24	6.08	2.66	7.91	5.93	2.88	7.26	5.55	3.12	6.71	5.25	3.44
		30°C	8.96	7.84	2.27	8.64	7.67	2.46	8.33	7.49	2.66	8.01	7.31	2.89	7.38	6.82	3.13	6.85	6.43	3.45
		33°C	9.15	9.15	2.28	8.88	8.88	2.47	8.61	8.61	2.68	8.33	8.33	2.91	7.71	7.71	3.16	7.21	7.21	3.49
	22°C	27°C	9.72	5.39	2.31	9.37	5.27	2.50	9.02	5.14	2.71	8.66	5.00	2.93	7.95	4.67	3.18	7.35	4.41	3.50
		30°C	9.74	6.64	2.31	9.39	6.51	2.50	9.04	6.37	2.71	8.68	6.23	2.94	7.97	5.83	3.18	7.37	5.53	3.51
		33°C	9.77	7.78	2.31	9.44	7.65	2.50	9.09	7.49	2.71	8.73	7.32	2.94	8.03	6.86	3.19	7.44	6.51	3.51
		36°C	9.86	8.79	2.31	9.55	8.63	2.51	9.22	8.44	2.72	8.89	8.23	2.95	8.21	7.68	3.21	7.66	7.23	3.54
850	16°C	21°C	8.04	5.79	2.25	7.76	5.65	2.42	7.48	5.51	2.62	7.18	5.37	2.84	6.60	5.00	3.10	6.10	4.71	3.44
		24°C	8.07	7.08	2.25	7.78	6.93	2.42	7.50	6.78	2.62	7.21	6.61	2.85	6.63	6.19	3.10	6.14	5.84	3.45
		27°C	8.21	8.12	2.26	7.95	7.91	2.43	7.70	7.70	2.63	7.44	7.44	2.86	6.89	6.89	3.12	6.44	6.44	3.47
		30°C	8.65	8.65	2.28	8.40	8.40	2.45	8.16	8.16	2.66	7.91	7.91	2.89	7.34	7.34	3.15	6.87	6.87	3.51
	19°C	24°C	8.85	5.55	2.29	8.55	5.42	2.46	8.24	5.29	2.66	7.92	5.15	2.89	7.29	4.81	3.15	6.74	4.55	3.50
		27°C	8.88	6.44	2.29	8.57	6.30	2.46	8.26	6.17	2.66	7.94	6.03	2.89	7.31	5.66	3.15	6.76	5.37	3.50
		30°C	8.92	8.00	2.29	8.62	7.83	2.47	8.33	7.66	2.67	8.03	7.48	2.90	7.42	6.99	3.16	6.91	6.59	3.51
		33°C	9.16	9.16	2.30	8.90	8.90	2.48	8.65	8.65	2.69	8.39	8.39	2.92	7.79	7.79	3.19	7.30	7.30	3.54
	22°C	27°C	9.73	5.44	2.33	9.39	5.32	2.51	9.07	5.20	2.71	8.72	5.07	2.94	8.03	4.74	3.20	7.44	4.48	3.55
		30°C	9.75	6.73	2.33	9.42	6.60	2.51	9.08	6.46	2.71	8.74	6.32	2.95	8.05	5.93	3.21	7.46	5.64	3.55
		33°C	9.77	7.93	2.33	9.44	7.79	2.51	9.10	7.65	2.72	8.77	7.50	2.95	8.08	7.05	3.21	7.51	6.70	3.56
		36°C	9.87	8.99	2.34	9.55	8.81	2.52	9.24	8.63	2.72	8.94	8.42	2.96	8.28	7.87	3.22	7.75	7.43	3.58

Model: FDMQN71CXV1 - RQ71CXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.961	4.961	5.615	5.615	5.833	5.833	8.231	8.231	9.539	9.539	10.193	10.193	10.847	10.847
17°C	4.831	4.831	5.467	5.467	5.700	5.700	8.221	8.221	9.396	9.396	10.048	10.048	10.700	10.700
19°C	4.701	4.701	5.320	5.320	5.568	5.568	8.211	8.211	9.252	9.252	9.903	9.903	10.553	10.553
21°C	4.571	4.571	5.186	5.186	5.435	5.435	8.090	8.090	9.109	9.109	9.757	9.757	10.406	10.406
23°C	4.441	4.441	5.065	5.065	5.303	5.303	7.858	7.858	8.966	8.966	9.612	9.612	10.259	10.259
25°C	4.311	4.311	4.944	4.944	5.170	5.170	7.626	7.626	8.823	8.823	9.467	9.467	10.112	10.112
27°C	4.181	4.181	4.823	4.823	5.038	5.038	7.394	7.394	8.679	8.679	9.322	9.322	9.965	9.965
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN100CXV1 - RQ90DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	8.85	5.84	2.50	8.53	5.69	2.70	8.22	5.54	2.93	7.89	5.38	3.17	7.24	5.00	3.44	6.69	4.71	3.80
		24°C	8.86	7.00	2.50	8.54	6.84	2.70	8.23	6.68	2.93	7.90	6.51	3.18	7.26	6.08	3.45	6.71	5.74	3.80
		27°C	8.93	7.93	2.50	8.63	7.75	2.71	8.33	7.57	2.93	8.01	7.37	3.18	7.39	6.86	3.46	6.88	6.45	3.81
		30°C	9.20	9.20	2.52	8.94	8.94	2.72	8.67	8.67	2.95	8.39	8.39	3.21	7.77	7.77	3.49	7.27	7.27	3.85
	19°C	24°C	9.76	5.45	2.54	9.41	5.32	2.75	9.07	5.17	2.98	8.71	5.03	3.23	8.00	4.68	3.50	7.40	4.41	3.86
		27°C	9.76	6.24	2.54	9.42	6.10	2.75	9.07	5.96	2.98	8.72	5.82	3.23	8.01	5.44	3.51	7.41	5.15	3.86
		30°C	9.78	7.70	2.54	9.44	7.54	2.75	9.11	7.37	2.98	8.76	7.19	3.23	8.07	6.73	3.51	7.48	6.36	3.87
		33°C	9.89	9.89	2.55	9.57	9.57	2.76	9.26	9.26	2.99	8.95	8.95	3.25	8.28	8.28	3.53	7.74	7.74	3.89
	22°C	27°C	10.73	5.34	2.59	10.36	5.21	2.80	9.98	5.08	3.04	9.59	4.94	3.29	8.82	4.60	3.57	8.17	4.34	3.94
		30°C	10.74	6.51	2.59	10.37	6.37	2.80	9.99	6.22	3.04	9.60	6.07	3.29	8.83	5.69	3.57	8.17	5.39	3.94
		33°C	10.74	7.60	2.59	10.37	7.45	2.80	9.99	7.31	3.04	9.60	7.15	3.29	8.84	6.72	3.57	8.19	6.38	3.94
		36°C	10.78	8.62	2.59	10.42	8.44	2.80	10.06	8.27	3.04	9.69	8.08	3.30	8.94	7.58	3.58	8.31	7.19	3.95
1050	16°C	21°C	9.20	6.09	2.52	8.87	5.93	2.73	8.53	5.78	2.95	8.19	5.61	3.20	7.51	5.23	3.47	6.93	4.92	3.83
		24°C	9.23	7.39	2.52	8.90	7.22	2.73	8.57	7.05	2.96	8.22	6.87	3.21	7.55	6.41	3.48	6.98	6.05	3.83
		27°C	9.34	8.40	2.53	9.03	8.20	2.74	8.72	7.99	2.97	8.40	7.75	3.22	7.76	7.20	3.49	7.23	6.74	3.86
		30°C	9.73	9.73	2.55	9.45	9.45	2.76	9.16	9.16	2.99	8.86	8.86	3.25	8.21	8.21	3.53	7.68	7.68	3.90
	19°C	24°C	10.14	5.76	2.56	9.78	5.62	2.77	9.41	5.47	3.01	9.03	5.32	3.26	8.29	4.96	3.54	7.66	4.67	3.90
		27°C	10.16	6.64	2.56	9.79	6.49	2.78	9.43	6.34	3.01	9.05	6.19	3.26	8.31	5.79	3.54	7.69	5.48	3.90
		30°C	10.20	8.19	2.57	9.85	8.01	2.78	9.50	7.83	3.01	9.13	7.64	3.27	8.41	7.14	3.55	7.80	6.75	3.91
		33°C	10.37	10.37	2.58	10.06	10.06	2.79	9.74	9.74	3.03	9.41	9.41	3.29	8.72	8.72	3.57	8.15	8.15	3.94
	22°C	27°C	11.14	5.64	2.61	10.75	5.51	2.83	10.35	5.37	3.07	9.94	5.23	3.32	9.13	4.87	3.61	8.45	4.60	3.97
		30°C	11.15	6.92	2.61	10.76	6.78	2.83	10.36	6.63	3.07	9.95	6.47	3.33	9.14	6.06	3.61	8.46	5.75	3.97
		33°C	11.17	8.11	2.61	10.78	7.96	2.83	10.39	7.80	3.07	9.98	7.63	3.33	9.18	7.16	3.61	8.51	6.80	3.98
		36°C	11.24	9.17	2.62	10.88	9.00	2.84	10.50	8.81	3.08	10.12	8.61	3.34	9.33	8.05	3.62	8.70	7.60	4.00
1160	16°C	21°C	9.54	6.36	2.54	9.19	6.19	2.75	8.84	6.03	2.98	8.47	5.86	3.23	7.77	5.46	3.50	7.16	5.14	3.86
		24°C	9.59	7.72	2.55	9.24	7.54	2.75	8.90	7.36	2.98	8.54	7.16	3.23	7.84	6.68	3.51	7.24	6.30	3.86
		27°C	9.75	8.85	2.55	9.43	8.62	2.76	9.11	8.38	2.99	8.78	8.12	3.25	8.12	7.52	3.53	7.56	7.02	3.89
		30°C	10.23	10.23	2.58	9.94	9.94	2.79	9.63	9.63	3.03	9.31	9.31	3.29	8.62	8.62	3.57	8.05	8.05	3.94
	19°C	24°C	10.50	6.10	2.59	10.12	5.95	2.80	9.74	5.79	3.03	9.34	5.64	3.29	8.57	5.25	3.56	7.92	4.96	3.93
		27°C	10.53	7.05	2.59	10.16	6.89	2.80	9.77	6.73	3.03	9.38	6.57	3.29	8.61	6.14	3.57	7.96	5.81	3.93
		30°C	10.62	8.68	2.59	10.25	8.49	2.81	9.88	8.30	3.04	9.50	8.09	3.30	8.75	7.55	3.58	8.12	7.12	3.95
		33°C	10.85	10.85	2.60	10.53	10.53	2.82	10.21	10.21	3.06	9.87	9.87	3.33	9.15	9.15	3.61	8.55	8.55	3.99
	22°C	27°C	11.53	5.96	2.63	11.12	5.83	2.85	10.70	5.69	3.09	10.27	5.54	3.35	9.43	5.17	3.64	8.72	4.88	4.00
		30°C	11.55	7.35	2.63	11.14	7.21	2.85	10.72	7.06	3.09	10.29	6.90	3.35	9.45	6.46	3.64	8.74	6.12	4.01
		33°C	11.59	8.62	2.64	11.19	8.47	2.86	10.78	8.29	3.10	10.35	8.10	3.36	9.53	7.60	3.64	8.82	7.21	4.01
		36°C	11.69	9.73	2.64	11.33	9.55	2.87	10.93	9.34	3.11	10.54	9.11	3.37	9.74	8.50	3.66	9.09	8.00	4.04
1280	16°C	21°C	9.54	6.41	2.57	9.20	6.26	2.76	8.87	6.10	2.99	8.52	5.94	3.25	7.83	5.54	3.54	7.23	5.22	3.93
		24°C	9.57	7.84	2.57	9.23	7.67	2.77	8.90	7.50	2.99	8.56	7.32	3.25	7.87	6.85	3.54	7.29	6.46	3.94
		27°C	9.73	8.99	2.58	9.43	8.76	2.78	9.13	8.53	3.00	8.82	8.28	3.27	8.18	7.82	3.56	7.64	7.38	3.97
		30°C	10.25	10.25	2.60	9.97	9.97	2.80	9.68	9.68	3.04	9.38	9.38	3.30	8.70	8.70	3.60	8.14	8.14	4.00
	19°C	24°C	10.50	6.15	2.61	10.13	6.00	2.81	9.77	5.86	3.04	9.40	5.71	3.30	8.64	5.33	3.60	8.00	5.04	3.99
		27°C	10.53	7.13	2.61	10.16	6.98	2.81	9.80	6.83	3.04	9.42	6.68	3.30	8.67	6.26	3.60	8.02	5.95	4.00
		30°C	10.58	8.86	2.61	10.23	8.67	2.82	9.88	8.48	3.05	9.53	8.28	3.31	8.79	7.74	3.61	8.19	7.30	4.01
		33°C	10.86	10.86	2.63	10.55	10.55	2.83	10.26	10.26	3.07	9.95	9.95	3.34	9.24	9.24	3.64	8.66	8.66	4.05
	22°C	27°C	11.54	6.03	2.66	11.14	5.89	2.87	10.75	5.75	3.10	10.34	5.61	3.36	9.52	5.24	3.66	8.83	4.96	4.06
		30°C	11.56	7.46	2.66	11.17	7.30	2.87	10.77	7.15	3.10	10.37	7.00	3.36	9.54	6.56	3.66	8.85	6.24	4.06
		33°C	11.59	8.78	2.66	11.19	8.63	2.87	10.80	8.48	3.10	10.40	8.31	3.37	9.58	7.81	3.66	8.91	7.42	4.06
		36°C	11.70	9.96	2.67	11.33	9.76	2.88	10.96	9.55	3.11	10.61	9.32	3.38	9.82	8.71	3.68	9.19	8.22	4.09

Model: FDMQN100CXV1 - RQ90DXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	6.024	6.024	6.818	6.818	7.083	7.083	9.995	9.995	11.583	11.583	12.377	12.377	13.171	13.171
17°C	5.866	5.866	6.764	6.764	6.930	6.930	9.983	9.983	11.451	11.451	12.249	12.249	13.047	13.047
19°C	5.708	5.708	6.709	6.709	6.777	6.777	9.971	9.971	11.320	11.320	12.121	12.121	12.923	12.923
21°C	5.550	5.550	6.570	6.570	6.624	6.624	9.850	9.850	11.188	11.188	11.994	11.994	12.799	12.799
23°C	5.392	5.392	6.344	6.344	6.471	6.471	9.620	9.620	11.057	11.057	11.866	11.866	12.675	12.675
25°C	5.234	5.234	6.119	6.119	6.318	6.318	9.390	9.390	10.925	10.925	11.738	11.738	12.551	12.551
27°C	5.076	5.076	5.893	5.893	6.165	6.165	9.160	9.160	10.793	10.793	11.610	11.610	12.427	12.427
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN100CXV1 - RQ90DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	9.12	6.02	2.61	8.80	5.87	2.82	8.47	5.71	3.05	8.13	5.54	3.31	7.46	5.16	3.59	6.89	4.85	3.96
		24°C	9.13	7.21	2.61	8.81	7.05	2.82	8.48	6.88	3.05	8.14	6.71	3.31	7.48	6.27	3.59	6.92	5.91	3.96
		27°C	9.20	8.18	2.61	8.90	7.99	2.82	8.58	7.80	3.06	8.26	7.60	3.32	7.62	7.07	3.60	7.09	6.64	3.98
		30°C	9.49	9.49	2.62	9.21	9.21	2.84	8.93	8.93	3.08	8.65	8.65	3.34	8.02	8.02	3.63	7.50	7.50	4.01
	19°C	24°C	10.06	5.62	2.65	9.71	5.48	2.87	9.35	5.33	3.11	8.98	5.18	3.37	8.25	4.83	3.65	7.63	4.55	4.03
		27°C	10.06	6.43	2.65	9.71	6.29	2.87	9.36	6.14	3.11	8.99	6.00	3.37	8.26	5.61	3.65	7.64	5.31	4.03
		30°C	10.08	7.94	2.65	9.73	7.77	2.87	9.39	7.60	3.11	9.03	7.41	3.37	8.32	6.93	3.66	7.72	6.56	4.03
		33°C	10.20	10.20	2.65	9.87	9.87	2.88	9.55	9.55	3.12	9.22	9.22	3.38	8.53	8.53	3.68	7.98	7.98	4.06
	22°C	27°C	11.07	5.50	2.70	10.68	5.37	2.92	10.29	5.24	3.17	9.89	5.09	3.43	9.10	4.74	3.72	8.42	4.47	4.10
		30°C	11.07	6.71	2.70	10.69	6.56	2.92	10.29	6.41	3.17	9.89	6.26	3.43	9.10	5.86	3.73	8.42	5.56	4.10
		33°C	11.08	7.83	2.70	10.69	7.68	2.92	10.30	7.53	3.17	9.90	7.38	3.43	9.11	6.92	3.73	8.44	6.58	4.11
		36°C	11.11	8.88	2.70	10.74	8.70	2.92	10.37	8.52	3.17	9.99	8.33	3.44	9.22	7.81	3.73	8.57	7.41	4.12
1050	16°C	21°C	9.49	6.28	2.63	9.14	6.12	2.84	8.80	5.96	3.08	8.44	5.79	3.34	7.74	5.39	3.62	7.14	5.07	3.99
		24°C	9.52	7.62	2.63	9.17	7.44	2.85	8.83	7.27	3.08	8.47	7.08	3.34	7.78	6.61	3.63	7.20	6.24	4.00
		27°C	9.63	8.66	2.64	9.31	8.46	2.85	8.99	8.24	3.09	8.66	7.99	3.35	8.00	7.42	3.64	7.45	6.94	4.02
		30°C	10.03	10.03	2.66	9.74	9.74	2.88	9.44	9.44	3.12	9.14	9.14	3.39	8.47	8.47	3.68	7.91	7.91	4.06
	19°C	24°C	10.45	5.94	2.67	10.08	5.79	2.89	9.70	5.64	3.13	9.31	5.49	3.40	8.55	5.11	3.69	7.90	4.82	4.06
		27°C	10.47	6.84	2.67	10.10	6.69	2.89	9.72	6.54	3.14	9.33	6.39	3.40	8.57	5.97	3.69	7.92	5.65	4.06
		30°C	10.52	8.44	2.68	10.15	8.26	2.90	9.79	8.07	3.14	9.42	7.88	3.41	8.67	7.36	3.70	8.04	6.96	4.07
		33°C	10.70	10.70	2.69	10.37	10.37	2.91	10.04	10.04	3.16	9.71	9.71	3.43	8.99	8.99	3.72	8.41	8.41	4.11
	22°C	27°C	11.48	5.82	2.72	11.08	5.68	2.95	10.67	5.54	3.20	10.24	5.39	3.47	9.41	5.02	3.76	8.71	4.74	4.14
		30°C	11.50	7.14	2.72	11.09	6.99	2.95	10.68	6.83	3.20	10.26	6.67	3.47	9.43	6.25	3.76	8.72	5.93	4.14
		33°C	11.52	8.36	2.72	11.12	8.20	2.95	10.71	8.04	3.20	10.29	7.87	3.47	9.47	7.38	3.76	8.77	7.01	4.15
		36°C	11.59	9.46	2.73	11.22	9.28	2.96	10.82	9.08	3.21	10.43	8.87	3.48	9.62	8.30	3.78	8.97	7.83	4.17
1160	16°C	21°C	9.84	6.55	2.65	9.48	6.39	2.87	9.11	6.22	3.10	8.74	6.04	3.37	8.01	5.63	3.65	7.39	5.30	4.02
		24°C	9.89	7.96	2.65	9.53	7.77	2.87	9.17	7.58	3.11	8.80	7.38	3.37	8.08	6.89	3.66	7.47	6.50	4.03
		27°C	10.05	9.12	2.66	9.72	8.89	2.88	9.39	8.64	3.12	9.05	8.37	3.39	8.37	7.76	3.68	7.80	7.24	4.06
		30°C	10.55	10.55	2.68	10.24	10.24	2.91	9.93	9.93	3.15	9.60	9.60	3.43	8.89	8.89	3.72	8.30	8.30	4.11
	19°C	24°C	10.83	6.28	2.70	10.44	6.13	2.92	10.04	5.97	3.16	9.63	5.81	3.43	8.84	5.42	3.72	8.16	5.11	4.09
		27°C	10.86	7.27	2.70	10.47	7.11	2.92	10.08	6.94	3.16	9.67	6.77	3.43	8.88	6.33	3.72	8.21	5.99	4.10
		30°C	10.95	8.95	2.70	10.56	8.75	2.93	10.18	8.55	3.17	9.79	8.34	3.44	9.02	7.79	3.73	8.37	7.34	4.11
		33°C	11.19	11.19	2.71	10.86	10.86	2.94	10.53	10.53	3.19	10.18	10.18	3.47	9.43	9.43	3.77	8.82	8.82	4.16
	22°C	27°C	11.88	6.15	2.75	11.46	6.01	2.97	11.03	5.86	3.22	10.58	5.71	3.50	9.72	5.33	3.79	8.99	5.03	4.17
		30°C	11.91	7.58	2.75	11.48	7.44	2.98	11.05	7.27	3.23	10.61	7.11	3.50	9.75	6.66	3.79	9.01	6.31	4.18
		33°C	11.95	8.88	2.75	11.53	8.73	2.98	11.11	8.54	3.23	10.67	8.36	3.50	9.82	7.83	3.80	9.10	7.43	4.19
		36°C	12.05	10.03	2.76	11.68	9.85	2.99	11.27	9.63	3.24	10.87	9.39	3.52	10.04	8.76	3.82	9.37	8.25	4.21
1280	16°C	21°C	9.83	6.61	2.68	9.49	6.45	2.88	9.14	6.29	3.12	8.78	6.13	3.39	8.07	5.71	3.69	7.45	5.38	4.10
		24°C	9.87	8.08	2.68	9.52	7.91	2.88	9.17	7.73	3.12	8.82	7.55	3.39	8.11	7.06	3.69	7.51	6.66	4.11
		27°C	10.03	9.27	2.69	9.72	9.03	2.89	9.41	8.80	3.13	9.10	8.53	3.41	8.43	8.07	3.72	7.88	7.61	4.13
		30°C	10.57	10.57	2.71	10.28	10.28	2.92	9.98	9.98	3.16	9.67	9.67	3.44	8.97	8.97	3.75	8.40	8.40	4.17
	19°C	24°C	10.82	6.34	2.72	10.45	6.19	2.93	10.08	6.04	3.17	9.69	5.88	3.44	8.91	5.50	3.75	8.24	5.19	4.16
		27°C	10.85	7.35	2.72	10.48	7.20	2.93	10.10	7.04	3.17	9.71	6.89	3.44	8.94	6.46	3.75	8.27	6.13	4.17
		30°C	10.91	9.13	2.73	10.54	8.94	2.94	10.19	8.75	3.18	9.82	8.54	3.45	9.07	7.98	3.76	8.45	7.52	4.18
		33°C	11.20	11.20	2.74	10.88	10.88	2.95	10.57	10.57	3.20	10.26	10.26	3.48	9.52	9.52	3.79	8.93	8.93	4.22
	22°C	27°C	11.90	6.22	2.77	11.49	6.07	2.99	11.08	5.93	3.23	10.66	5.78	3.51	9.82	5.41	3.82	9.10	5.12	4.23
		30°C	11.92	7.69	2.78	11.51	7.53	2.99	11.11	7.37	3.23	10.69	7.21	3.51	9.84	6.77	3.82	9.12	6.44	4.23
		33°C	11.95	9.06	2.78	11.54	8.90	2.99	11.13	8.74	3.23	10.72	8.56	3.51	9.88	8.05	3.82	9.18	7.65	4.24
		36°C	12.06	10.26	2.78	11.68	10.06	3.00	11.30	9.85	3.25	10.94	9.61	3.53	10.13	8.98	3.84	9.48	8.48	4.26

Model: FDMQN100CXV1 - RQ90DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	6.378	6.378	7.219	7.219	7.499	7.499	10.583	10.583	12.264	12.264	13.105	13.105	13.946	13.946
17°C	6.211	6.211	7.497	7.497	7.331	7.331	10.570	10.570	12.091	12.091	12.931	12.931	13.771	13.771
19°C	6.044	6.044	7.774	7.774	7.163	7.163	10.557	10.557	11.918	11.918	12.757	12.757	13.596	13.596
21°C	5.877	5.877	7.670	7.670	6.994	6.994	10.408	10.408	11.744	11.744	12.583	12.583	13.421	13.421
23°C	5.710	5.710	7.184	7.184	6.826	6.826	10.123	10.123	11.571	11.571	12.408	12.408	13.246	13.246
25°C	5.542	5.542	6.697	6.697	6.658	6.658	9.838	9.838	11.398	11.398	12.234	12.234	13.071	13.071
27°C	5.375	5.375	6.211	6.211	6.489	6.489	9.553	9.553	11.224	11.224	12.060	12.060	12.896	12.896
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN100CXV1 - RQ100DXV1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	10.78	7.12	3.26	10.40	6.93	3.53	10.01	6.75	3.82	9.61	6.55	4.14	8.82	6.10	4.49	8.15	5.74	4.95
		24°C	10.79	8.52	3.26	10.41	8.33	3.53	10.02	8.14	3.82	9.62	7.93	4.14	8.84	7.41	4.49	8.18	6.99	4.95
		27°C	10.88	9.66	3.27	10.52	9.45	3.53	10.15	9.22	3.83	9.76	8.99	4.15	9.01	8.36	4.51	8.38	7.85	4.97
		30°C	11.21	11.21	3.28	10.89	10.89	3.55	10.56	10.56	3.85	10.22	10.22	4.18	9.47	9.47	4.54	8.86	8.86	5.02
	19°C	24°C	11.89	6.65	3.31	11.47	6.48	3.58	11.05	6.31	3.88	10.61	6.13	4.21	9.75	5.71	4.57	9.02	5.37	5.04
		27°C	11.90	7.60	3.31	11.48	7.43	3.58	11.06	7.26	3.88	10.62	7.09	4.21	9.76	6.63	4.57	9.03	6.28	5.04
		30°C	11.92	9.38	3.31	11.50	9.18	3.59	11.10	8.98	3.89	10.68	8.76	4.22	9.83	8.20	4.58	9.12	7.76	5.05
		33°C	12.06	12.06	3.32	11.66	11.66	3.60	11.29	11.29	3.90	10.90	10.90	4.23	10.09	10.09	4.60	9.43	9.43	5.08
	22°C	27°C	13.08	6.51	3.37	12.63	6.35	3.65	12.17	6.19	3.96	11.69	6.02	4.29	10.75	5.61	4.66	9.95	5.29	5.13
		30°C	13.08	7.93	3.37	12.63	7.76	3.65	12.17	7.58	3.96	11.69	7.40	4.30	10.75	6.93	4.66	9.96	6.57	5.13
		33°C	13.09	9.26	3.37	12.64	9.08	3.65	12.18	8.90	3.96	11.70	8.72	4.30	10.77	8.18	4.66	9.98	7.77	5.14
		36°C	13.13	10.50	3.37	12.70	10.29	3.66	12.26	10.07	3.97	11.81	9.85	4.30	10.89	9.24	4.67	10.13	8.76	5.15
1050	16°C	21°C	11.21	7.42	3.29	10.81	7.23	3.56	10.40	7.04	3.85	9.97	6.84	4.18	9.15	6.37	4.53	8.44	5.99	4.99
		24°C	11.25	9.01	3.29	10.84	8.80	3.56	10.44	8.59	3.86	10.02	8.37	4.18	9.20	7.81	4.53	8.51	7.37	5.00
		27°C	11.38	10.23	3.30	11.00	9.99	3.57	10.62	9.74	3.87	10.24	9.45	4.20	9.45	8.78	4.55	8.81	8.21	5.03
		30°C	11.86	11.86	3.32	11.51	11.51	3.60	11.16	11.16	3.90	10.80	10.80	4.24	10.01	10.01	4.60	9.35	9.35	5.08
	19°C	24°C	12.35	7.02	3.34	11.91	6.85	3.62	11.47	6.67	3.92	11.01	6.48	4.25	10.11	6.04	4.61	9.34	5.70	5.08
		27°C	12.38	8.09	3.34	11.93	7.91	3.62	11.49	7.73	3.92	11.03	7.55	4.25	10.13	7.06	4.61	9.37	6.68	5.08
		30°C	12.43	9.98	3.35	12.00	9.76	3.62	11.57	9.54	3.93	11.13	9.31	4.26	10.25	8.71	4.62	9.51	8.22	5.10
		33°C	12.64	12.64	3.36	12.26	12.26	3.64	11.87	11.87	3.95	11.47	11.47	4.29	10.63	10.63	4.66	9.94	9.94	5.14
	22°C	27°C	13.57	6.88	3.40	13.10	6.71	3.69	12.61	6.54	4.00	12.11	6.37	4.33	11.13	5.94	4.70	10.29	5.60	5.18
		30°C	13.59	8.44	3.41	13.11	8.26	3.69	12.62	8.08	4.00	12.12	7.89	4.34	11.14	7.39	4.70	10.31	7.01	5.18
		33°C	13.62	9.89	3.41	13.14	9.70	3.69	12.66	9.50	4.00	12.16	9.30	4.34	11.19	8.72	4.71	10.37	8.28	5.19
		36°C	13.70	11.18	3.41	13.26	10.96	3.70	12.79	10.74	4.01	12.33	10.49	4.35	11.37	9.81	4.72	10.60	9.26	5.21
1160	16°C	21°C	11.63	7.74	3.32	11.20	7.55	3.59	10.77	7.35	3.88	10.33	7.14	4.21	9.47	6.65	4.57	8.73	6.26	5.03
		24°C	11.69	9.41	3.32	11.26	9.19	3.59	10.84	8.96	3.89	10.40	8.73	4.22	9.55	8.14	4.57	8.83	7.68	5.04
		27°C	11.88	10.78	3.33	11.49	10.51	3.60	11.10	10.21	3.90	10.70	9.90	4.24	9.89	9.17	4.60	9.22	8.56	5.08
		30°C	12.47	12.47	3.36	12.11	12.11	3.64	11.73	11.73	3.95	11.35	11.35	4.28	10.51	10.51	4.65	9.81	9.81	5.14
	19°C	24°C	12.80	7.43	3.37	12.34	7.25	3.65	11.87	7.06	3.95	11.38	6.87	4.29	10.45	6.40	4.65	9.65	6.04	5.12
		27°C	12.84	8.59	3.37	12.38	8.40	3.65	11.91	8.20	3.96	11.43	8.00	4.29	10.49	7.48	4.65	9.70	7.08	5.13
		30°C	12.94	10.58	3.38	12.48	10.35	3.66	12.04	10.11	3.97	11.58	9.86	4.30	10.66	9.21	4.67	9.89	8.68	5.14
		33°C	13.22	13.22	3.39	12.84	12.84	3.68	12.44	12.44	3.99	12.03	12.03	4.34	11.15	11.15	4.71	10.42	10.42	5.20
	22°C	27°C	14.04	7.27	3.43	13.55	7.11	3.72	13.04	6.93	4.03	12.51	6.75	4.37	11.49	6.30	4.74	10.62	5.95	5.22
		30°C	14.07	8.96	3.44	13.57	8.79	3.72	13.06	8.60	4.03	12.54	8.40	4.37	11.52	7.87	4.74	10.65	7.46	5.22
		33°C	14.12	10.50	3.44	13.63	10.32	3.73	13.13	10.10	4.04	12.62	9.88	4.38	11.61	9.26	4.75	10.75	8.79	5.23
		36°C	14.25	11.86	3.45	13.80	11.64	3.74	13.32	11.38	4.05	12.85	11.10	4.40	11.87	10.36	4.78	11.07	9.75	5.27
1280	16°C	21°C	11.62	7.81	3.35	11.21	7.62	3.60	10.81	7.44	3.90	10.38	7.24	4.24	9.54	6.75	4.62	8.81	6.36	5.13
		24°C	11.66	9.55	3.35	11.25	9.35	3.61	10.84	9.14	3.90	10.43	8.93	4.24	9.59	8.35	4.62	8.88	7.88	5.14
		27°C	11.86	10.95	3.36	11.49	10.68	3.62	11.13	10.40	3.92	10.75	10.09	4.26	9.96	9.53	4.65	9.31	8.99	5.17
		30°C	12.50	12.50	3.39	12.15	12.15	3.66	11.80	11.80	3.96	11.43	11.43	4.30	10.60	10.60	4.70	9.92	9.92	5.22
	19°C	24°C	12.79	7.49	3.40	12.35	7.31	3.67	11.91	7.14	3.96	11.45	6.95	4.31	10.53	6.50	4.69	9.74	6.14	5.21
		27°C	12.83	8.69	3.41	12.38	8.51	3.67	11.94	8.33	3.97	11.48	8.14	4.31	10.56	7.63	4.69	9.77	7.25	5.21
		30°C	12.89	10.79	3.41	12.46	10.56	3.67	12.04	10.34	3.97	11.61	10.09	4.32	10.72	9.43	4.70	9.98	8.89	5.23
		33°C	13.24	13.24	3.43	12.86	12.86	3.70	12.50	12.50	4.00	12.12	12.12	4.35	11.26	11.26	4.75	10.55	10.55	5.28
	22°C	27°C	14.06	7.35	3.47	13.58	7.18	3.74	13.10	7.01	4.04	12.61	6.84	4.39	11.61	6.39	4.77	10.76	6.05	5.29
		30°C	14.09	9.09	3.47	13.61	8.90	3.74	13.13	8.72	4.04	12.63	8.53	4.39	11.63	8.00	4.77	10.78	7.61	5.29
		33°C	14.12	10.70	3.47	13.64	10.52	3.74	13.16	10.33	4.05	12.67	10.12	4.39	11.68	9.51	4.78	10.85	9.04	5.30
		36°C	14.26	12.13	3.48	13.80	11.89	3.75	13.36	11.64	4.06	12.93	11.36	4.41	11.97	10.62	4.80	11.20	10.02	5.33

Model: FDMQN100CXV1 - RQ100DXV1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.264	7.264	8.222	8.222	8.541	8.541	12.052	12.052	13.968	13.968	14.925	14.925	15.883	15.883
17°C	7.074	7.074	8.040	8.040	8.242	8.242	12.038	12.038	13.208	13.208	14.084	14.084	14.960	14.960
19°C	6.883	6.883	7.858	7.858	7.943	7.943	12.024	12.024	12.447	12.447	13.242	13.242	14.037	14.037
21°C	6.693	6.693	7.599	7.599	7.644	7.644	11.510	11.510	11.687	11.687	12.401	12.401	13.114	13.114
23°C	6.503	6.503	7.263	7.263	7.345	7.345	10.496	10.496	10.927	10.927	11.559	11.559	12.192	12.192
25°C	6.312	6.312	6.927	6.927	7.046	7.046	9.482	9.482	10.167	10.167	10.718	10.718	11.269	11.269
27°C	6.122	6.122	6.591	6.591	6.747	6.747	8.468	8.468	9.407	9.407	9.876	9.876	10.346	10.346
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN100CXV1 - RQ100DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
920	16°C	21°C	10.78	7.12	3.26	10.40	6.93	3.53	10.01	6.75	3.82	9.61	6.55	4.14	8.82	6.10	4.49	8.15	5.74	4.95
		24°C	10.79	8.52	3.26	10.41	8.33	3.53	10.02	8.14	3.82	9.62	7.93	4.14	8.84	7.41	4.49	8.18	6.99	4.95
		27°C	10.88	9.66	3.27	10.52	9.45	3.53	10.15	9.22	3.83	9.76	8.99	4.15	9.01	8.36	4.51	8.38	7.85	4.97
		30°C	11.21	11.21	3.28	10.89	10.89	3.55	10.56	10.56	3.85	10.22	10.22	4.18	9.47	9.47	4.54	8.86	8.86	5.02
	19°C	24°C	11.89	6.65	3.31	11.47	6.48	3.58	11.05	6.31	3.88	10.61	6.13	4.21	9.75	5.71	4.57	9.02	5.37	5.04
		27°C	11.90	7.60	3.31	11.48	7.43	3.58	11.06	7.26	3.88	10.62	7.09	4.21	9.76	6.63	4.57	9.03	6.28	5.04
		30°C	11.92	9.38	3.31	11.50	9.18	3.59	11.10	8.98	3.89	10.68	8.76	4.22	9.83	8.20	4.58	9.12	7.76	5.05
		33°C	12.06	12.06	3.32	11.66	11.66	3.60	11.29	11.29	3.90	10.90	10.90	4.23	10.09	10.09	4.60	9.43	9.43	5.08
	22°C	27°C	13.08	6.51	3.37	12.63	6.35	3.65	12.17	6.19	3.96	11.69	6.02	4.29	10.75	5.61	4.66	9.95	5.29	5.13
		30°C	13.08	7.93	3.37	12.63	7.76	3.65	12.17	7.58	3.96	11.69	7.40	4.30	10.75	6.93	4.66	9.96	6.57	5.13
		33°C	13.09	9.26	3.37	12.64	9.08	3.65	12.18	8.90	3.96	11.70	8.72	4.30	10.77	8.18	4.66	9.98	7.77	5.14
		36°C	13.13	10.50	3.37	12.70	10.29	3.66	12.26	10.07	3.97	11.81	9.85	4.30	10.89	9.24	4.67	10.13	8.76	5.15
1050	16°C	21°C	11.21	7.42	3.29	10.81	7.23	3.56	10.40	7.04	3.85	9.97	6.84	4.18	9.15	6.37	4.53	8.44	5.99	4.99
		24°C	11.25	9.01	3.29	10.84	8.80	3.56	10.44	8.59	3.86	10.02	8.37	4.18	9.20	7.81	4.53	8.51	7.37	5.00
		27°C	11.38	10.23	3.30	11.00	9.99	3.57	10.62	9.74	3.87	10.24	9.45	4.20	9.45	8.78	4.55	8.81	8.21	5.03
		30°C	11.86	11.86	3.32	11.51	11.51	3.60	11.16	11.16	3.90	10.80	10.80	4.24	10.01	10.01	4.60	9.35	9.35	5.08
	19°C	24°C	12.35	7.02	3.34	11.91	6.85	3.62	11.47	6.67	3.92	11.01	6.48	4.25	10.11	6.04	4.61	9.34	5.70	5.08
		27°C	12.38	8.09	3.34	11.93	7.91	3.62	11.49	7.73	3.92	11.03	7.55	4.25	10.13	7.06	4.61	9.37	6.68	5.08
		30°C	12.43	9.98	3.35	12.00	9.76	3.62	11.57	9.54	3.93	11.13	9.31	4.26	10.25	8.71	4.62	9.51	8.22	5.10
		33°C	12.64	12.64	3.36	12.26	12.26	3.64	11.87	11.87	3.95	11.47	11.47	4.29	10.63	10.63	4.66	9.94	9.94	5.14
	22°C	27°C	13.57	6.88	3.40	13.10	6.71	3.69	12.61	6.54	4.00	12.11	6.37	4.33	11.13	5.94	4.70	10.29	5.60	5.18
		30°C	13.59	8.44	3.41	13.11	8.26	3.69	12.62	8.08	4.00	12.12	7.89	4.34	11.14	7.39	4.70	10.31	7.01	5.18
		33°C	13.62	9.89	3.41	13.14	9.70	3.69	12.66	9.50	4.00	12.16	9.30	4.34	11.19	8.72	4.71	10.37	8.28	5.19
		36°C	13.70	11.18	3.41	13.26	10.96	3.70	12.79	10.74	4.01	12.33	10.49	4.35	11.37	9.81	4.72	10.60	9.26	5.21
1160	16°C	21°C	11.63	7.74	3.32	11.20	7.55	3.59	10.77	7.35	3.88	10.33	7.14	4.21	9.47	6.65	4.57	8.73	6.26	5.03
		24°C	11.69	9.41	3.32	11.26	9.19	3.59	10.84	8.96	3.89	10.40	8.73	4.22	9.55	8.14	4.57	8.83	7.68	5.04
		27°C	11.88	10.78	3.33	11.49	10.51	3.60	11.10	10.21	3.90	10.70	9.90	4.24	9.89	9.17	4.60	9.22	8.56	5.08
		30°C	12.47	12.47	3.36	12.11	12.11	3.64	11.73	11.73	3.95	11.35	11.35	4.28	10.51	10.51	4.65	9.81	9.81	5.14
	19°C	24°C	12.80	7.43	3.37	12.34	7.25	3.65	11.87	7.06	3.95	11.38	6.87	4.29	10.45	6.40	4.65	9.65	6.04	5.12
		27°C	12.84	8.59	3.37	12.38	8.40	3.65	11.91	8.20	3.96	11.43	8.00	4.29	10.49	7.48	4.65	9.70	7.08	5.13
		30°C	12.94	10.58	3.38	12.48	10.35	3.66	12.04	10.11	3.97	11.58	9.86	4.30	10.66	9.21	4.67	9.89	8.68	5.14
		33°C	13.22	13.22	3.39	12.84	12.84	3.68	12.44	12.44	3.99	12.03	12.03	4.34	11.15	11.15	4.71	10.42	10.42	5.20
	22°C	27°C	14.04	7.27	3.43	13.55	7.11	3.72	13.04	6.93	4.03	12.51	6.75	4.37	11.49	6.30	4.74	10.62	5.95	5.22
		30°C	14.07	8.96	3.44	13.57	8.79	3.72	13.06	8.60	4.03	12.54	8.40	4.37	11.52	7.87	4.74	10.65	7.46	5.22
		33°C	14.12	10.50	3.44	13.63	10.32	3.73	13.13	10.10	4.04	12.62	9.88	4.38	11.61	9.26	4.75	10.75	8.79	5.23
		36°C	14.25	11.86	3.45	13.80	11.64	3.74	13.32	11.38	4.05	12.85	11.10	4.40	11.87	10.36	4.78	11.07	9.75	5.27
1280	16°C	21°C	11.62	7.81	3.35	11.21	7.62	3.60	10.81	7.44	3.90	10.38	7.24	4.24	9.54	6.75	4.62	8.81	6.36	5.13
		24°C	11.66	9.55	3.35	11.25	9.35	3.61	10.84	9.14	3.90	10.43	8.93	4.24	9.59	8.35	4.62	8.88	7.88	5.14
		27°C	11.86	10.95	3.36	11.49	10.68	3.62	11.13	10.40	3.92	10.75	10.09	4.26	9.96	9.53	4.65	9.31	8.99	5.17
		30°C	12.50	12.50	3.39	12.15	12.15	3.66	11.80	11.80	3.96	11.43	11.43	4.30	10.60	10.60	4.70	9.92	9.92	5.22
	19°C	24°C	12.79	7.49	3.40	12.35	7.31	3.67	11.91	7.14	3.96	11.45	6.95	4.31	10.53	6.50	4.69	9.74	6.14	5.21
		27°C	12.83	8.69	3.41	12.38	8.51	3.67	11.94	8.33	3.97	11.48	8.14	4.31	10.56	7.63	4.69	9.77	7.25	5.21
		30°C	12.89	10.79	3.41	12.46	10.56	3.67	12.04	10.34	3.97	11.61	10.09	4.32	10.72	9.43	4.70	9.98	8.89	5.23
		33°C	13.24	13.24	3.43	12.86	12.86	3.70	12.50	12.50	4.00	12.12	12.12	4.35	11.26	11.26	4.75	10.55	10.55	5.28
	22°C	27°C	14.06	7.35	3.47	13.58	7.18	3.74	13.10	7.01	4.04	12.61	6.84	4.39	11.61	6.39	4.77	10.76	6.05	5.29
		30°C	14.09	9.09	3.47	13.61	8.90	3.74	13.13	8.72	4.04	12.63	8.53	4.39	11.63	8.00	4.77	10.78	7.61	5.29
		33°C	14.12	10.70	3.47	13.64	10.52	3.74	13.16	10.33	4.05	12.67	10.12	4.39	11.68	9.51	4.78	10.85	9.04	5.30
		36°C	14.26	12.13	3.48	13.80	11.89	3.75	13.36	11.64	4.06	12.93	11.36	4.41	11.97	10.62	4.80	11.20	10.02	5.33

Model: FDMQN100CXV1 - RQ100DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.264	7.264	8.222	8.222	8.541	8.541	12.052	12.052	13.968	13.968	14.925	14.925	15.883	15.883
17°C	7.074	7.074	8.040	8.040	8.242	8.242	12.038	12.038	13.208	13.208	14.084	14.084	14.960	14.960
19°C	6.883	6.883	7.858	7.858	7.943	7.943	12.024	12.024	12.447	12.447	13.242	13.242	14.037	14.037
21°C	6.693	6.693	7.599	7.599	7.644	7.644	11.510	11.510	11.687	11.687	12.401	12.401	13.114	13.114
23°C	6.503	6.503	7.263	7.263	7.345	7.345	10.496	10.496	10.927	10.927	11.559	11.559	12.192	12.192
25°C	6.312	6.312	6.927	6.927	7.046	7.046	9.482	9.482	10.167	10.167	10.718	10.718	11.269	11.269
27°C	6.122	6.122	6.591	6.591	6.747	6.747	8.468	8.468	9.407	9.407	9.876	9.876	10.346	10.346
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN125CXV1 - RQ125DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1130	16°C	21°C	12.44	8.22	3.75	12.00	8.00	4.05	11.55	7.79	4.39	11.09	7.56	4.76	10.18	7.04	5.16	9.40	6.62	5.69
		24°C	12.46	9.84	3.75	12.01	9.61	4.05	11.57	9.39	4.39	11.11	9.15	4.76	10.20	8.55	5.16	9.44	8.07	5.69
		27°C	12.56	11.15	3.75	12.14	10.90	4.06	11.71	10.64	4.40	11.27	10.37	4.77	10.40	9.65	5.18	9.68	9.06	5.72
		30°C	12.94	12.94	3.77	12.57	12.57	4.08	12.19	12.19	4.43	11.80	11.80	4.81	10.93	10.93	5.22	10.23	10.23	5.77
	19°C	24°C	13.72	7.67	3.81	13.24	7.48	4.12	12.75	7.28	4.46	12.25	7.07	4.84	11.26	6.59	5.25	10.41	6.20	5.79
		27°C	13.73	8.78	3.81	13.25	8.58	4.12	12.76	8.38	4.47	12.26	8.18	4.84	11.27	7.65	5.25	10.42	7.25	5.79
		30°C	13.75	10.83	3.81	13.28	10.60	4.12	12.81	10.36	4.47	12.32	10.11	4.85	11.35	9.46	5.26	10.53	8.95	5.80
		33°C	13.92	13.92	3.82	13.46	13.46	4.13	13.03	13.03	4.48	12.58	12.58	4.87	11.64	11.64	5.29	10.88	10.88	5.84
	22°C	27°C	15.10	7.51	3.88	14.57	7.33	4.20	14.04	7.14	4.55	13.49	6.95	4.94	12.41	6.47	5.35	11.49	6.10	5.90
		30°C	15.10	9.15	3.88	14.58	8.95	4.20	14.04	8.75	4.55	13.50	8.54	4.94	12.41	8.00	5.36	11.49	7.58	5.90
		33°C	15.11	10.68	3.88	14.59	10.48	4.20	14.06	10.27	4.55	13.51	10.06	4.94	12.43	9.44	5.36	11.52	8.97	5.90
		36°C	15.16	12.12	3.88	14.66	11.87	4.20	14.15	11.63	4.56	13.63	11.37	4.95	12.57	10.66	5.37	11.69	10.11	5.92
1230	16°C	21°C	12.94	8.56	3.78	12.47	8.34	4.09	12.00	8.12	4.43	11.51	7.89	4.80	10.56	7.35	5.21	9.74	6.92	5.74
		24°C	12.98	10.39	3.78	12.51	10.15	4.09	12.05	9.91	4.43	11.56	9.66	4.80	10.62	9.01	5.21	9.82	8.51	5.74
		27°C	13.14	11.81	3.79	12.70	11.53	4.10	12.26	11.23	4.44	11.82	10.90	4.82	10.91	10.12	5.24	10.16	9.47	5.78
		30°C	13.68	13.68	3.82	13.29	13.29	4.13	12.88	12.88	4.48	12.46	12.46	4.87	11.55	11.55	5.29	10.79	10.79	5.84
	19°C	24°C	14.26	8.10	3.84	13.75	7.90	4.16	13.23	7.69	4.51	12.70	7.48	4.89	11.66	6.97	5.30	10.78	6.57	5.84
		27°C	14.28	9.33	3.84	13.77	9.13	4.16	13.26	8.92	4.51	12.73	8.71	4.89	11.69	8.14	5.30	10.81	7.71	5.84
		30°C	14.35	11.51	3.85	13.85	11.26	4.17	13.35	11.01	4.51	12.84	10.74	4.90	11.83	10.04	5.31	10.97	9.49	5.86
		33°C	14.59	14.59	3.86	14.14	14.14	4.18	13.69	13.69	4.54	13.24	13.24	4.93	12.26	12.26	5.35	11.47	11.47	5.91
	22°C	27°C	15.66	7.93	3.91	15.11	7.75	4.24	14.55	7.55	4.59	13.97	7.35	4.98	12.84	6.85	5.40	11.88	6.47	5.95
		30°C	15.68	9.73	3.91	15.13	9.53	4.24	14.57	9.32	4.60	13.99	9.10	4.98	12.86	8.52	5.41	11.89	8.09	5.95
		33°C	15.71	11.41	3.92	15.17	11.19	4.24	14.61	10.96	4.60	14.03	10.73	4.99	12.91	10.06	5.41	11.97	9.55	5.96
		36°C	15.81	12.89	3.92	15.30	12.65	4.25	14.76	12.39	4.61	14.23	12.10	5.00	13.13	11.32	5.43	12.24	10.68	5.99
1320	16°C	21°C	13.42	8.93	3.81	12.93	8.71	4.12	12.43	8.48	4.46	11.92	8.24	4.84	10.93	7.68	5.25	10.07	7.22	5.78
		24°C	13.49	10.86	3.82	13.00	10.60	4.13	12.51	10.34	4.47	12.00	10.07	4.85	11.03	9.40	5.26	10.19	8.86	5.79
		27°C	13.71	12.44	3.83	13.26	12.12	4.14	12.81	11.78	4.49	12.35	11.42	4.87	11.41	10.58	5.29	10.64	9.87	5.84
		30°C	14.39	14.39	3.86	13.97	13.97	4.18	13.54	13.54	4.54	13.10	13.10	4.92	12.13	12.13	5.35	11.32	11.32	5.90
	19°C	24°C	14.77	8.57	3.87	14.24	8.36	4.19	13.69	8.14	4.54	13.14	7.92	4.93	12.06	7.39	5.34	11.13	6.97	5.89
		27°C	14.81	9.92	3.88	14.28	9.69	4.20	13.74	9.46	4.55	13.19	9.23	4.93	12.11	8.63	5.35	11.19	8.17	5.89
		30°C	14.94	12.20	3.88	14.41	11.94	4.21	13.89	11.66	4.56	13.36	11.37	4.94	12.30	10.62	5.36	11.42	10.01	5.91
		33°C	15.26	15.26	3.90	14.81	14.81	4.23	14.36	14.36	4.59	13.88	13.88	4.98	12.86	12.86	5.41	12.03	12.03	5.98
	22°C	27°C	16.21	8.38	3.95	15.63	8.20	4.28	15.04	7.99	4.63	14.44	7.78	5.02	13.26	7.26	5.45	12.26	6.86	6.00
		30°C	16.24	10.34	3.95	15.66	10.14	4.28	15.07	9.92	4.64	14.47	9.69	5.03	13.29	9.08	5.45	12.29	8.60	6.00
		33°C	16.30	12.11	3.95	15.73	11.90	4.28	15.15	11.65	4.64	14.56	11.39	5.04	13.39	10.68	5.46	12.41	10.13	6.02
		36°C	16.44	13.68	3.96	15.93	13.43	4.30	15.38	13.13	4.66	14.82	12.81	5.06	13.70	11.95	5.49	12.78	11.25	6.06
1430	16°C	21°C	13.41	9.01	3.85	12.94	8.79	4.14	12.47	8.58	4.48	11.98	8.35	4.87	11.01	7.78	5.31	10.17	7.33	5.90
		24°C	13.46	11.02	3.85	12.98	10.78	4.15	12.51	10.55	4.48	12.03	10.30	4.87	11.06	9.63	5.31	10.25	9.08	5.90
		27°C	13.68	12.63	3.86	13.26	12.32	4.16	12.84	11.99	4.50	12.41	11.64	4.90	11.50	11.00	5.34	10.74	10.38	5.94
		30°C	14.42	14.42	3.90	14.02	14.02	4.20	13.61	13.61	4.55	13.19	13.19	4.95	12.24	12.24	5.40	11.45	11.45	6.00
	19°C	24°C	14.76	8.64	3.91	14.25	8.44	4.21	13.74	8.23	4.56	13.21	8.02	4.95	12.15	7.49	5.39	11.24	7.08	5.98
		27°C	14.81	10.02	3.92	14.29	9.81	4.22	13.78	9.61	4.56	13.25	9.39	4.95	12.19	8.81	5.39	11.28	8.36	5.99
		30°C	14.88	12.45	3.92	14.38	12.18	4.22	13.90	11.92	4.57	13.40	11.64	4.96	12.37	10.88	5.41	11.52	10.25	6.01
		33°C	15.28	15.28	3.94	14.83	14.83	4.25	14.42	14.42	4.60	13.99	13.99	5.00	12.99	12.99	5.45	12.18	12.18	6.06
	22°C	27°C	16.23	8.48	3.99	15.67	8.28	4.29	15.12	8.09	4.64	14.55	7.89	5.04	13.39	7.37	5.49	12.41	6.98	6.08
		30°C	16.26	10.48	3.99	15.70	10.27	4.30	15.15	10.05	4.65	14.58	9.84	5.04	13.42	9.23	5.49	12.44	8.77	6.09
		33°C	16.30	12.35	3.99	15.74	12.13	4.30	15.18	11.91	4.65	14.62	11.68	5.05	13.47	10.98	5.49	12.52	10.43	6.09
		36°C	16.45	14.00	4.00	15.93	13.72	4.31	15.42	13.43	4.67	14.92	13.10	5.07	13.82	12.25	5.52	12.93	11.56	6.13

Model: FDMQN125CXV1 - RQ125DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	8.327	8.327	9.425	9.425	9.791	9.791	13.816	13.816	16.012	16.012	17.109	17.109	18.207	18.207
17°C	8.109	8.109	9.324	9.324	9.583	9.583	13.800	13.800	15.848	15.848	16.954	16.954	18.060	18.060
19°C	7.891	7.891	9.224	9.224	9.375	9.375	13.783	13.783	15.685	15.685	16.798	16.798	17.912	17.912
21°C	7.672	7.672	9.029	9.029	9.167	9.167	13.627	13.627	15.522	15.522	16.643	16.643	17.764	17.764
23°C	7.454	7.454	8.740	8.740	8.960	8.960	13.332	13.332	15.358	15.358	16.487	16.487	17.617	17.617
25°C	7.236	7.236	8.451	8.451	8.752	8.752	13.037	13.037	15.195	15.195	16.332	16.332	17.469	17.469
27°C	7.017	7.017	8.162	8.162	8.544	8.544	12.742	12.742	15.032	15.032	16.176	16.176	17.321	17.321
	Frost Region													

Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FDMQN140CXV1 - RQ140DXY1
Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1170	16°C	21°C	15.20	9.91	4.38	14.66	9.65	4.73	14.12	9.39	5.12	13.55	9.12	5.56	12.44	8.49	6.03	11.49	7.98	6.65
		24°C	15.22	11.87	4.38	14.68	11.59	4.73	14.14	11.32	5.13	13.57	11.04	5.56	12.47	10.31	6.03	11.53	9.73	6.65
		27°C	15.34	13.45	4.38	14.83	13.15	4.74	14.31	12.84	5.14	13.77	12.51	5.57	12.70	11.64	6.05	11.82	10.93	6.67
		30°C	15.81	15.81	4.40	15.36	15.36	4.77	14.89	14.89	5.17	14.41	14.41	5.61	13.36	13.36	6.10	12.50	12.50	6.74
	19°C	24°C	16.77	9.25	4.44	16.18	9.02	4.81	15.58	8.78	5.21	14.97	8.53	5.65	13.75	7.94	6.13	12.72	7.48	6.76
		27°C	16.78	10.58	4.44	16.19	10.35	4.81	15.59	10.11	5.21	14.98	9.86	5.65	13.77	9.23	6.13	12.73	8.74	6.76
		30°C	16.80	13.06	4.45	16.22	12.78	4.81	15.65	12.50	5.22	15.06	12.20	5.66	13.86	11.41	6.14	12.86	10.80	6.77
		33°C	17.00	17.00	4.46	16.45	16.45	4.83	15.91	15.91	5.23	15.37	15.37	5.68	14.22	14.22	6.17	13.30	13.30	6.81
	22°C	27°C	18.44	9.06	4.53	17.81	8.84	4.90	17.16	8.61	5.31	16.49	8.38	5.76	15.16	7.81	6.25	14.03	7.36	6.89
		30°C	18.45	11.04	4.53	17.81	10.80	4.90	17.16	10.55	5.31	16.49	10.30	5.76	15.17	9.64	6.25	14.04	9.15	6.89
		33°C	18.46	12.89	4.53	17.82	12.64	4.90	17.17	12.39	5.32	16.50	12.14	5.77	15.18	11.39	6.26	14.07	10.82	6.89
		36°C	18.52	14.61	4.53	17.91	14.32	4.91	17.29	14.02	5.32	16.66	13.71	5.78	15.36	12.86	6.27	14.28	12.20	6.91
1340	16°C	21°C	15.81	10.33	4.41	15.24	10.07	4.77	14.67	9.80	5.17	14.07	9.52	5.61	12.91	8.87	6.08	11.91	8.35	6.70
		24°C	15.86	12.54	4.42	15.29	12.25	4.78	14.72	11.96	5.17	14.12	11.66	5.61	12.98	10.87	6.09	12.00	10.26	6.71
		27°C	16.05	14.25	4.43	15.51	13.91	4.79	14.98	13.56	5.19	14.44	13.15	5.63	13.33	12.22	6.11	12.42	11.43	6.75
		30°C	16.72	16.72	4.46	16.24	16.24	4.83	15.74	15.74	5.24	15.23	15.23	5.69	14.11	14.11	6.18	13.19	13.19	6.82
	19°C	24°C	17.42	9.78	4.49	16.80	9.53	4.86	16.17	9.28	5.26	15.52	9.03	5.70	14.25	8.41	6.19	13.17	7.93	6.82
		27°C	17.45	11.26	4.49	16.83	11.01	4.86	16.20	10.76	5.26	15.55	10.51	5.71	14.29	9.82	6.19	13.21	9.30	6.82
		30°C	17.54	13.89	4.49	16.93	13.59	4.86	16.32	13.29	5.27	15.70	12.96	5.72	14.45	12.12	6.20	13.41	11.45	6.84
		33°C	17.83	17.83	4.51	17.29	17.29	4.88	16.73	16.73	5.30	16.18	16.18	5.75	14.99	14.99	6.25	14.01	14.01	6.90
	22°C	27°C	19.14	9.57	4.57	18.47	9.35	4.95	17.78	9.11	5.37	17.08	8.86	5.82	15.69	8.27	6.31	14.51	7.80	6.95
		30°C	19.17	11.75	4.57	18.49	11.50	4.95	17.80	11.25	5.37	17.10	10.98	5.82	15.71	10.29	6.31	14.53	9.76	6.95
		33°C	19.20	13.76	4.57	18.53	13.50	4.95	17.85	13.23	5.37	17.15	12.94	5.83	15.78	12.14	6.32	14.62	11.53	6.96
		36°C	19.32	15.56	4.58	18.70	15.26	4.97	18.04	14.95	5.38	17.39	14.60	5.84	16.04	13.66	6.34	14.96	12.89	7.00
1550	16°C	21°C	16.40	10.78	4.45	15.80	10.51	4.81	15.19	10.23	5.21	14.56	9.95	5.65	13.36	9.26	6.13	12.31	8.72	6.75
		24°C	16.49	13.10	4.46	15.89	12.79	4.82	15.29	12.48	5.22	14.67	12.15	5.66	13.47	11.34	6.14	12.45	10.69	6.76
		27°C	16.75	15.02	4.47	16.20	14.63	4.84	15.66	14.22	5.24	15.09	13.78	5.69	13.95	12.76	6.18	13.00	11.92	6.82
		30°C	17.59	17.59	4.51	17.07	17.07	4.88	16.55	16.55	5.30	16.01	16.01	5.75	14.82	14.82	6.25	13.84	13.84	6.90
	19°C	24°C	18.05	10.34	4.52	17.40	10.09	4.90	16.74	9.83	5.31	16.06	9.56	5.75	14.73	8.92	6.24	13.60	8.41	6.87
		27°C	18.10	11.97	4.53	17.45	11.69	4.90	16.80	11.42	5.31	16.12	11.14	5.76	14.80	10.42	6.25	13.68	9.86	6.88
		30°C	18.25	14.73	4.54	17.61	14.41	4.91	16.98	14.08	5.32	16.33	13.72	5.77	15.03	12.82	6.26	13.95	12.08	6.91
		33°C	18.65	18.65	4.56	18.10	18.10	4.94	17.55	17.55	5.36	16.97	16.97	5.82	15.72	15.72	6.32	14.70	14.70	6.98
	22°C	27°C	19.81	10.12	4.61	19.10	9.90	4.99	18.39	9.65	5.41	17.65	9.39	5.87	16.21	8.77	6.36	14.98	8.28	7.01
		30°C	19.85	12.47	4.61	19.14	12.24	5.00	18.42	11.97	5.41	17.68	11.70	5.87	16.25	10.96	6.37	15.03	10.39	7.01
		33°C	19.92	14.62	4.62	19.23	14.36	5.00	18.52	14.06	5.42	17.79	13.75	5.88	16.37	12.89	6.38	15.17	12.23	7.03
		36°C	20.09	16.51	4.63	19.46	16.21	5.02	18.79	15.85	5.44	18.12	15.46	5.90	16.74	14.42	6.41	15.61	13.57	7.07
1720	16°C	21°C	16.39	10.88	4.49	15.82	10.61	4.84	15.24	10.35	5.23	14.64	10.08	5.69	13.45	9.39	6.20	12.42	8.85	6.89
		24°C	16.45	13.30	4.50	15.87	13.01	4.84	15.29	12.73	5.24	14.71	12.43	5.69	13.52	11.62	6.20	12.52	10.97	6.89
		27°C	16.72	15.25	4.51	16.21	14.87	4.86	15.69	14.48	5.26	15.17	14.04	5.72	14.05	13.27	6.24	13.13	12.52	6.94
		30°C	17.62	17.62	4.55	17.13	17.13	4.91	16.64	16.64	5.31	16.12	16.12	5.78	14.95	14.95	6.30	14.00	14.00	7.01
	19°C	24°C	18.04	10.43	4.57	17.42	10.18	4.92	16.80	9.94	5.32	16.15	9.68	5.78	14.85	9.04	6.29	13.74	8.55	6.99
		27°C	18.09	12.10	4.57	17.46	11.84	4.92	16.84	11.59	5.32	16.19	11.34	5.78	14.90	10.63	6.30	13.78	10.09	6.99
		30°C	18.18	15.03	4.58	17.58	14.71	4.93	16.98	14.39	5.33	16.37	14.05	5.79	15.11	13.13	6.31	14.08	12.38	7.01
		33°C	18.67	18.67	4.60	18.13	18.13	4.96	17.63	17.63	5.37	17.10	17.10	5.84	15.88	15.88	6.37	14.89	14.89	7.08
	22°C	27°C	19.83	10.23	4.66	19.15	9.99	5.02	18.48	9.76	5.42	17.78	9.52	5.89	16.37	8.90	6.41	15.17	8.42	7.10
		30°C	19.87	12.65	4.66	19.19	12.39	5.02	18.51	12.13	5.43	17.81	11.87	5.89	16.40	11.14	6.41	15.21	10.59	7.11
		33°C	19.92	14.90	4.66	19.24	14.64	5.02	18.55	14.38	5.43	17.87	14.10	5.89	16.47	13.25	6.41	15.30	12.59	7.11
		36°C	20.11	16.89	4.67	19.47	16.56	5.03	18.84	16.21	5.45	18.23	15.81	5.92	16.88	14.78	6.45	15.80	13.95	7.16

Model: FDMQN140CXV1 - RQ140DXY1
Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	9.745	9.745	11.029	11.029	11.458	11.458	16.168	16.168	18.737	18.737	20.022	20.022	21.306	21.306
17°C	9.489	9.489	10.920	10.920	11.184	11.184	16.149	16.149	18.388	18.388	19.659	19.659	20.930	20.930
19°C	9.234	9.234	10.811	10.811	10.911	10.911	16.129	16.129	18.039	18.039	19.296	19.296	20.554	20.554
21°C	8.978	8.978	10.565	10.565	10.638	10.638	15.850	15.850	17.689	17.689	18.934	18.934	20.178	20.178
23°C	8.723	8.723	10.182	10.182	10.364	10.364	15.311	15.311	17.340	17.340	18.571	18.571	19.802	19.802
25°C	8.467	8.467	9.799	9.799	10.091	10.091	14.772	14.772	16.991	16.991	18.209	18.209	19.426	19.426
27°C	8.212	8.212	9.416	9.416	9.818	9.818	14.233	14.233	16.642	16.642	17.846	17.846	19.050	19.050
	Frost Region													

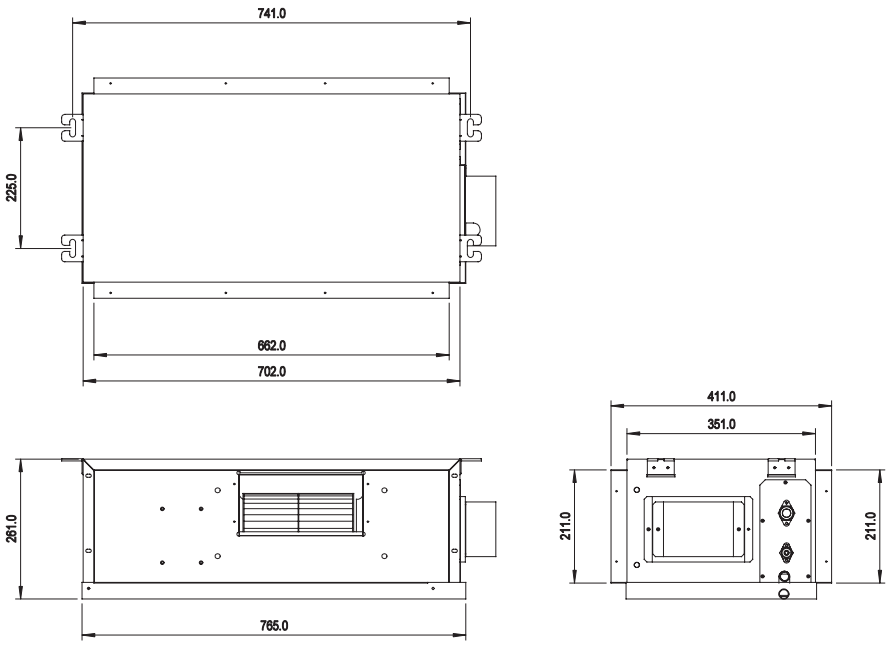
Remark:
AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling / Heating Capacity (kW)
SC: Sensible Cooling / Heating Capacity (kW)
PI: Power Input (kW)

Notes:
1. Ratings shown are net capacities.
2. shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Outlines & Dimensions

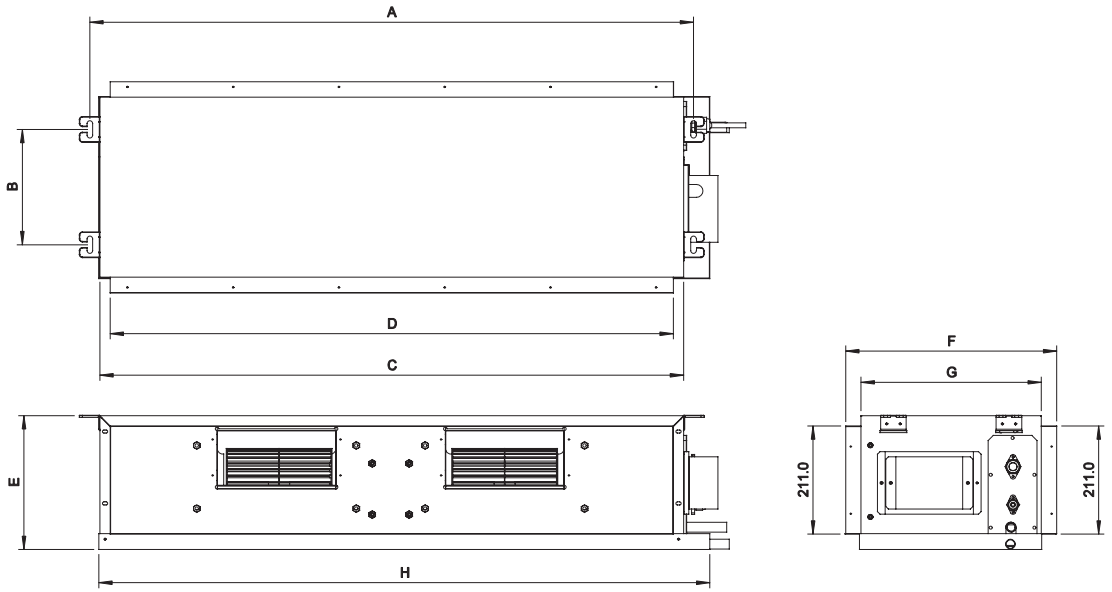
Indoor Unit

Model: FDMRN25CXV1 / FDMQN25CXV1



Note: Dimension in mm

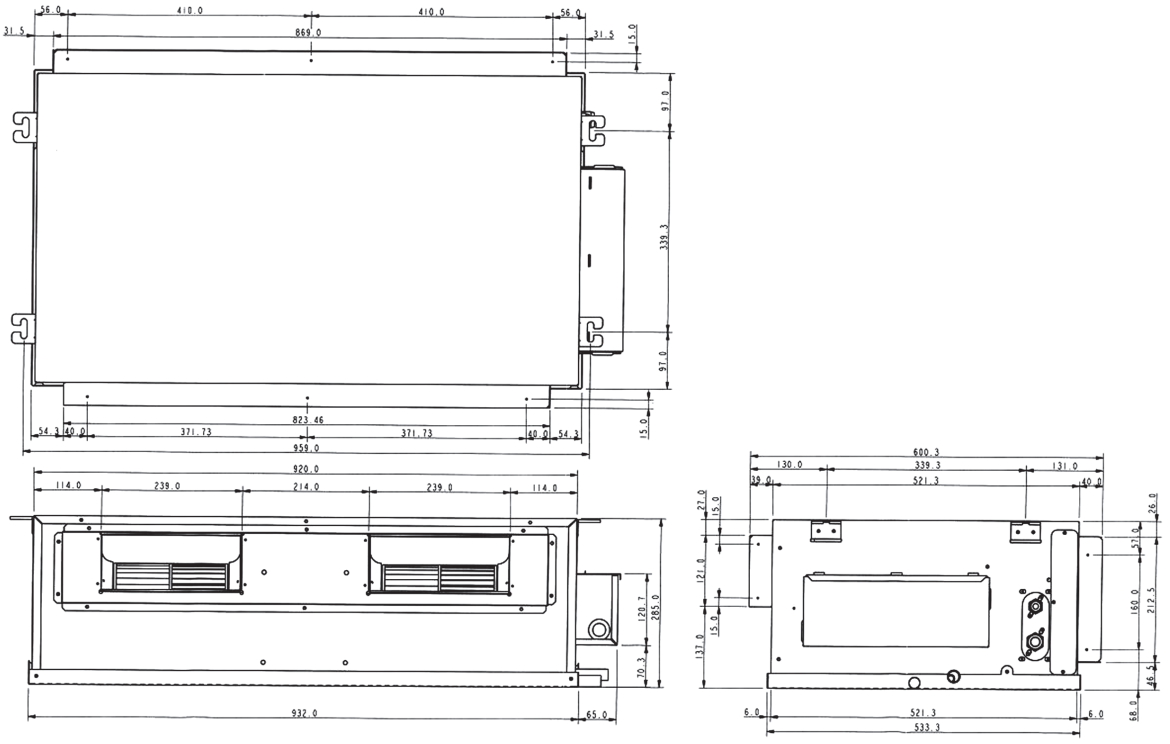
Model: FDMRN35/50/60CXV1 / FDMQN35/50/60CXV1



Model \ Dimension	A	B	C	D	E	F	G	H
FDMRN35CXV1 / FDMQN35CXV1	881.0	225.0	842.0	802.0	261.0	411.0	351.0	905.0
FDMRN50CXV1 / FDMQN50CXV1	1041.0	225.0	1002.0	962.0	261.0	411.0	351.0	1065.0
FDMRN60CXV1 / FDMQN60CXV1	1176.0	225.0	1137.0	1097.0	261.0	411.0	351.0	1200.0

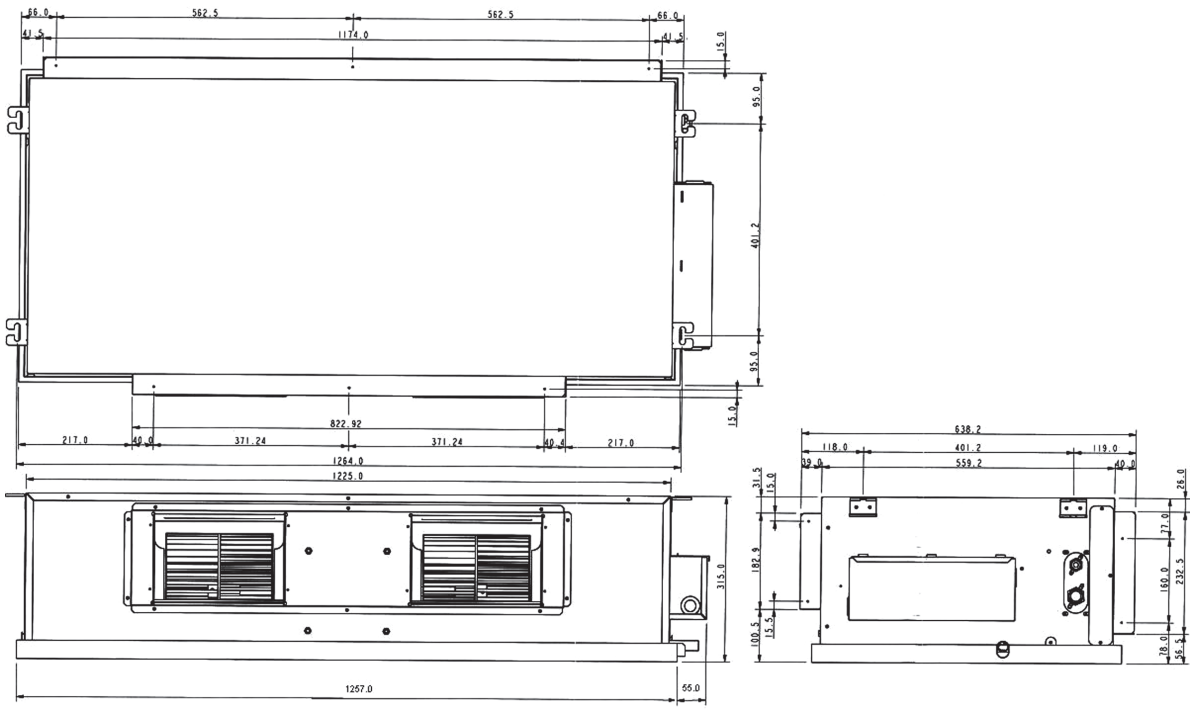
Note: Dimension in mm

Model: FDMRN71CXV1 / FDMQN71CXV1



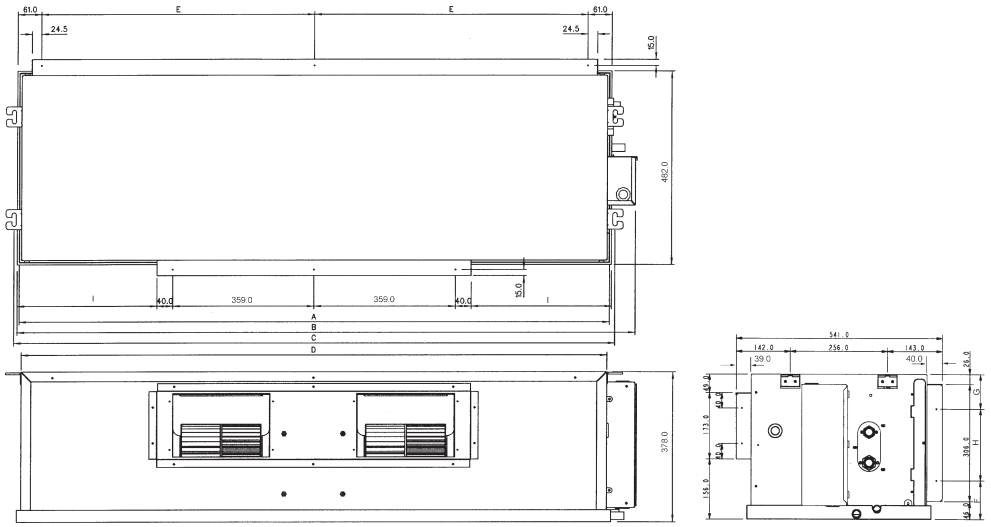
Note: Dimension in mm

Model: FDMRN100CXV1 / FDMQN100CXV1



Note: Dimension in mm

Model: FDMRN125/140CXV1 / FDMQN125/140CXV1

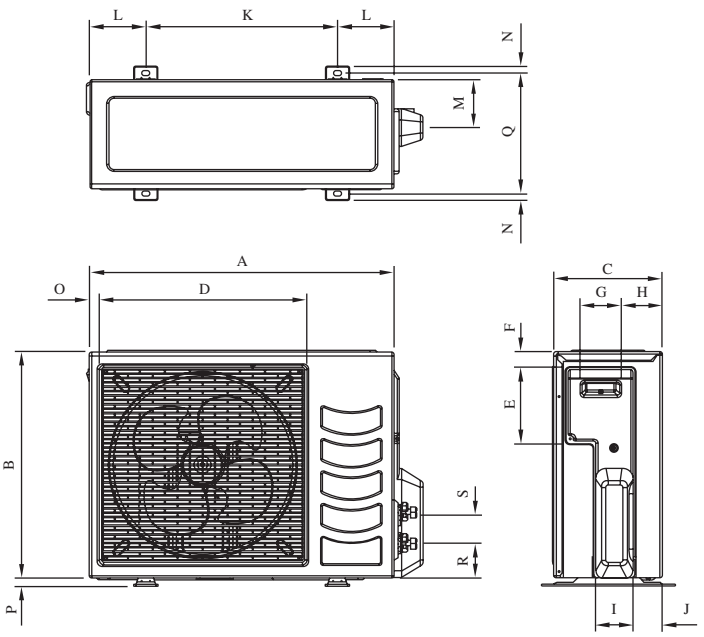


Dimension / Model	A	B	C	D	E	F	G	H	I
FDMRN125CXV1 / FDMQN125CXV1	1299.0	1369.0	1326.0	1287.0	593.5	105.0	90.5	182.5	255.5
FDMRN140CXV1 / FDMQN140CXV1	1499.0	1569.0	1526.0	1487.0	693.5	100.0	90.5	187.5	355.5

Note: Dimension in mm

Outdoor Unit

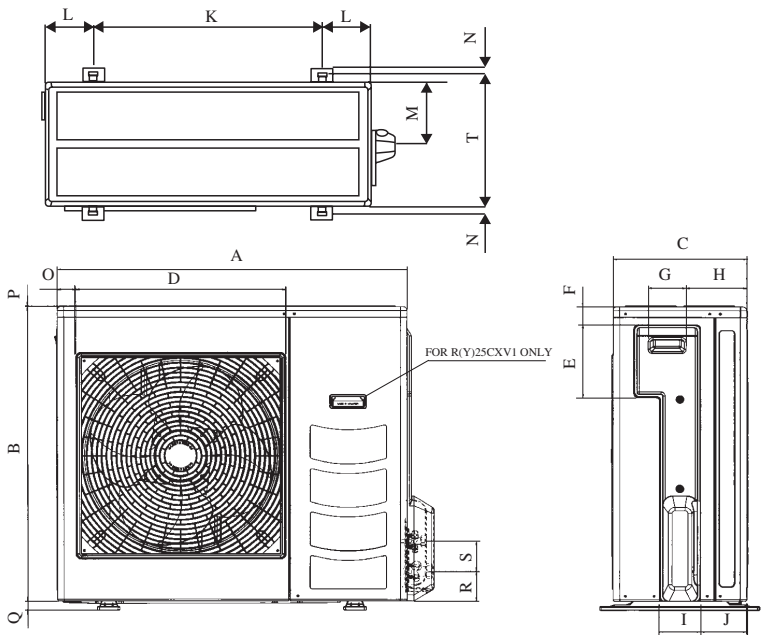
Model: R(Y)N25/35CXV1



Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
R(Y)N25/35CXV1	700	521	250	478	175	36	95	94	86	68	440	130	110	15	21	19	278	80	65

Note: Dimension in mm

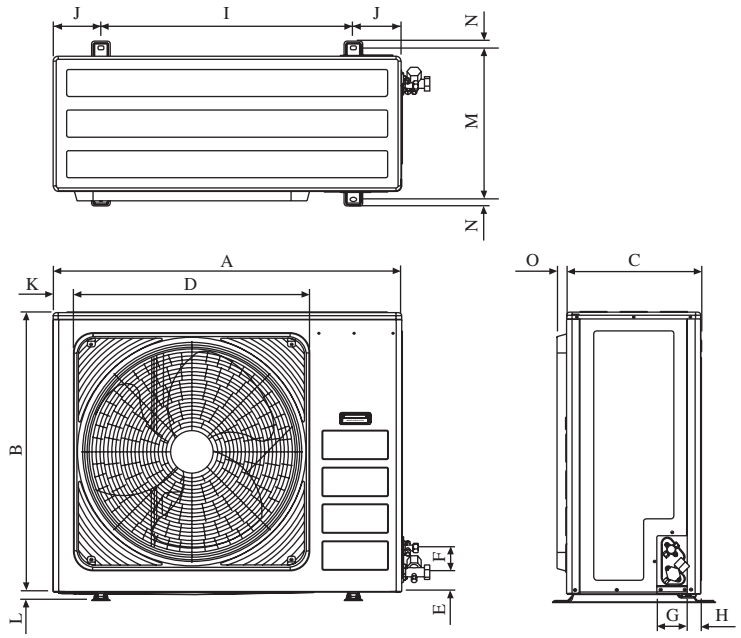
Model: R(Y)N50/60CXV1 / R(Y)N50/60CXY1 / RR71CXV1 / RR71CXY1 / RQ71CXV1 / RQ71CXY1



Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
R(Y)N50CXV1 / R(Y)N50CXY1	855	628	328	508	181	44	93	149	101	113	603	126	164	15	49	3	23	73	75	362
R(Y)N60CXV1 / R(Y)N60CXY1 / RR71CXV1 / RR71CXY1 / RQ71CXV1 / RQ71CXY1	855	730	328	513	182	44	93	149	101	113	603	126	164	15	47	3	23	73	75	362

Note: Dimension in mm

Model: RR90/100DXV1 / RQ90/100DXV1 / RR90/100/125/140DXY1 / RQ90/100/125/140DXY1



Dimension / Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
RR90/100DXV1 / RQ90/100DXV1 / RR90/100/125/140DXY1 / RQ90/100/125/140DXY1	1030	826	400	410	57	72	90	40	746	142	60	26	448	22	28

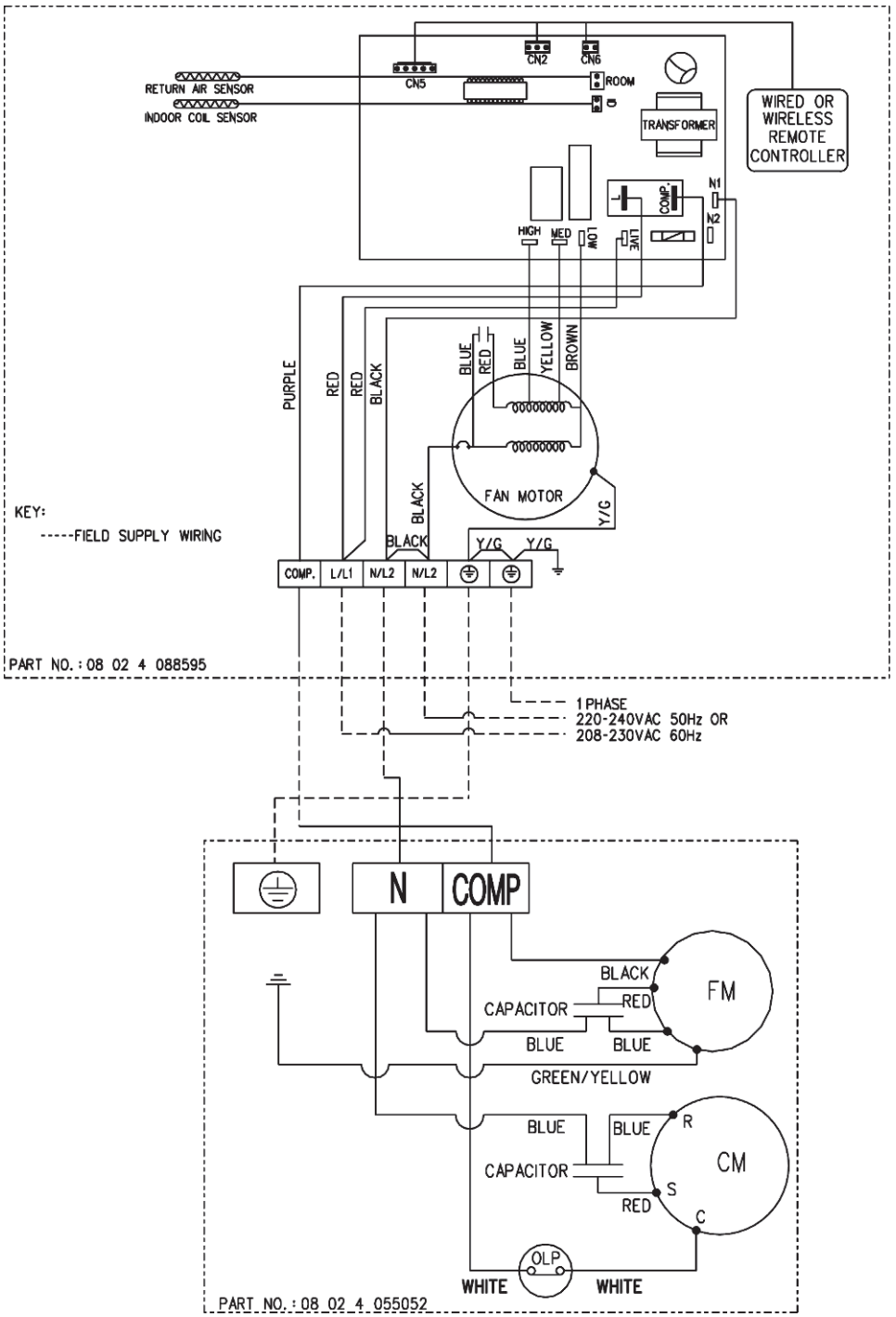
Note: Dimension in mm

Wiring Diagrams

Cooling Only

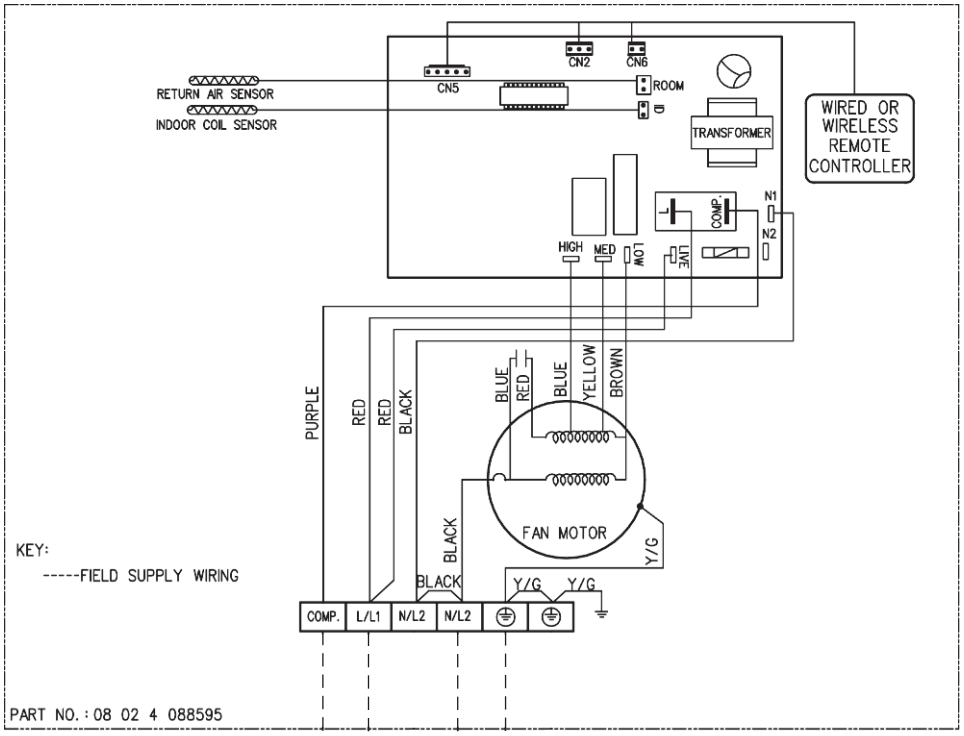
Indoor Unit
Model: FDMRN25/35CXV1

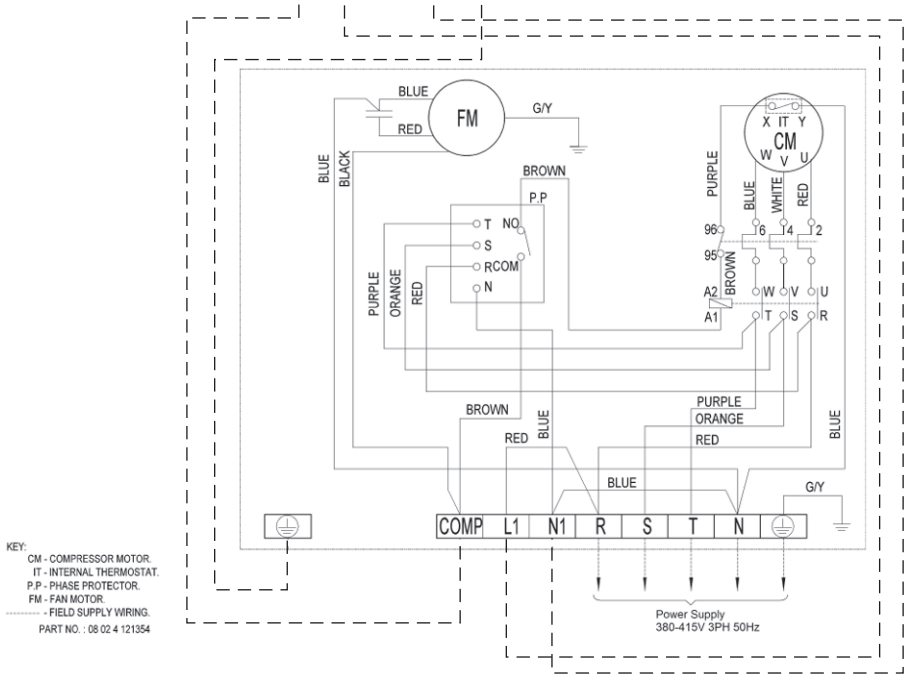
Outdoor Unit
Model: RN25/35CXV1



Indoor Unit
Model: FDMRN50/60CXV1

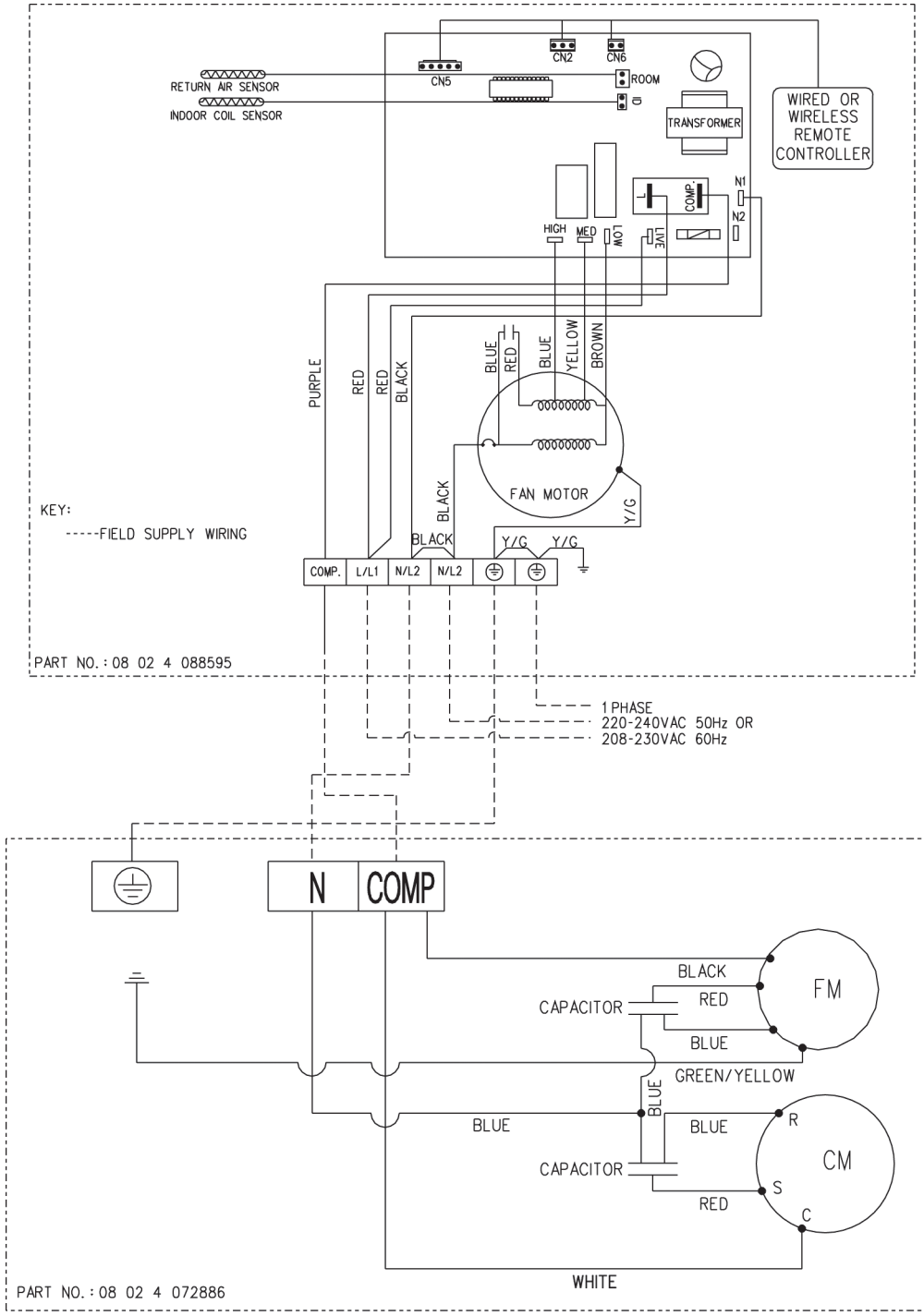
Outdoor Unit
Model: RN50/60CXY1





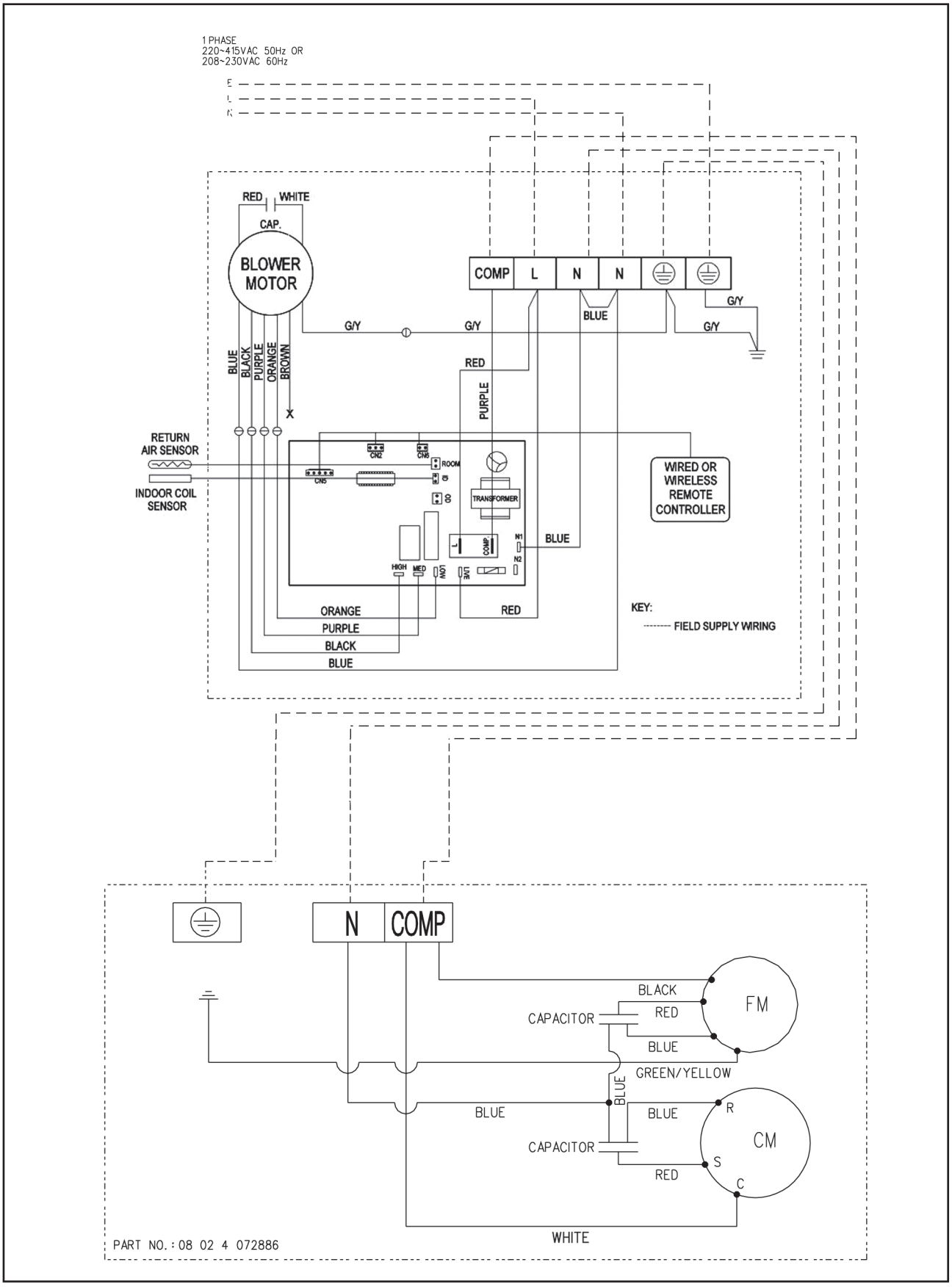
Indoor Unit
Model: FDMRN50/60CXV1

Outdoor Unit
Model: RN50/60CXV1



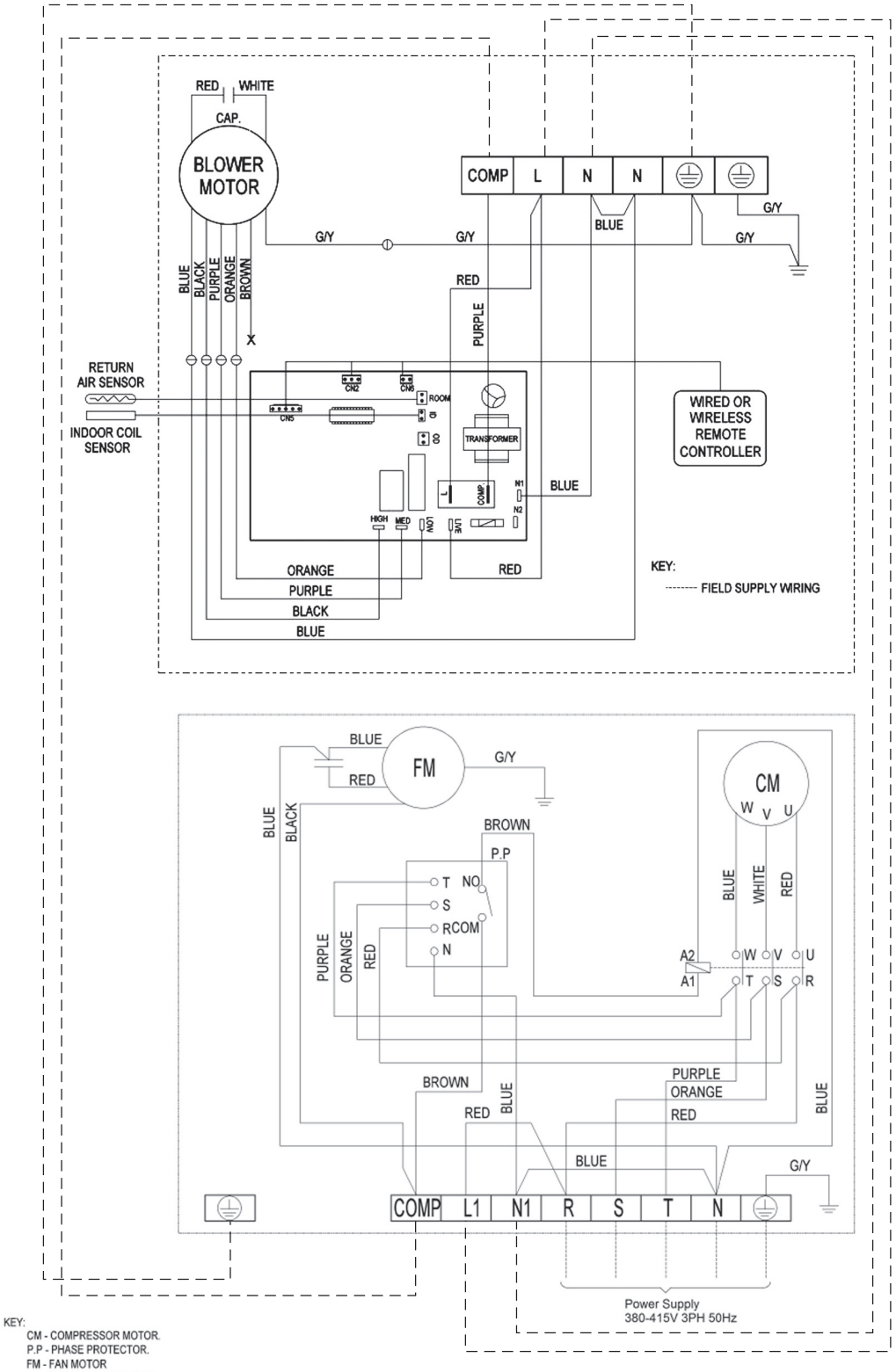
Indoor Unit
Model: FDMRN71CXV1

Outdoor Unit
Model: RR71CXV1



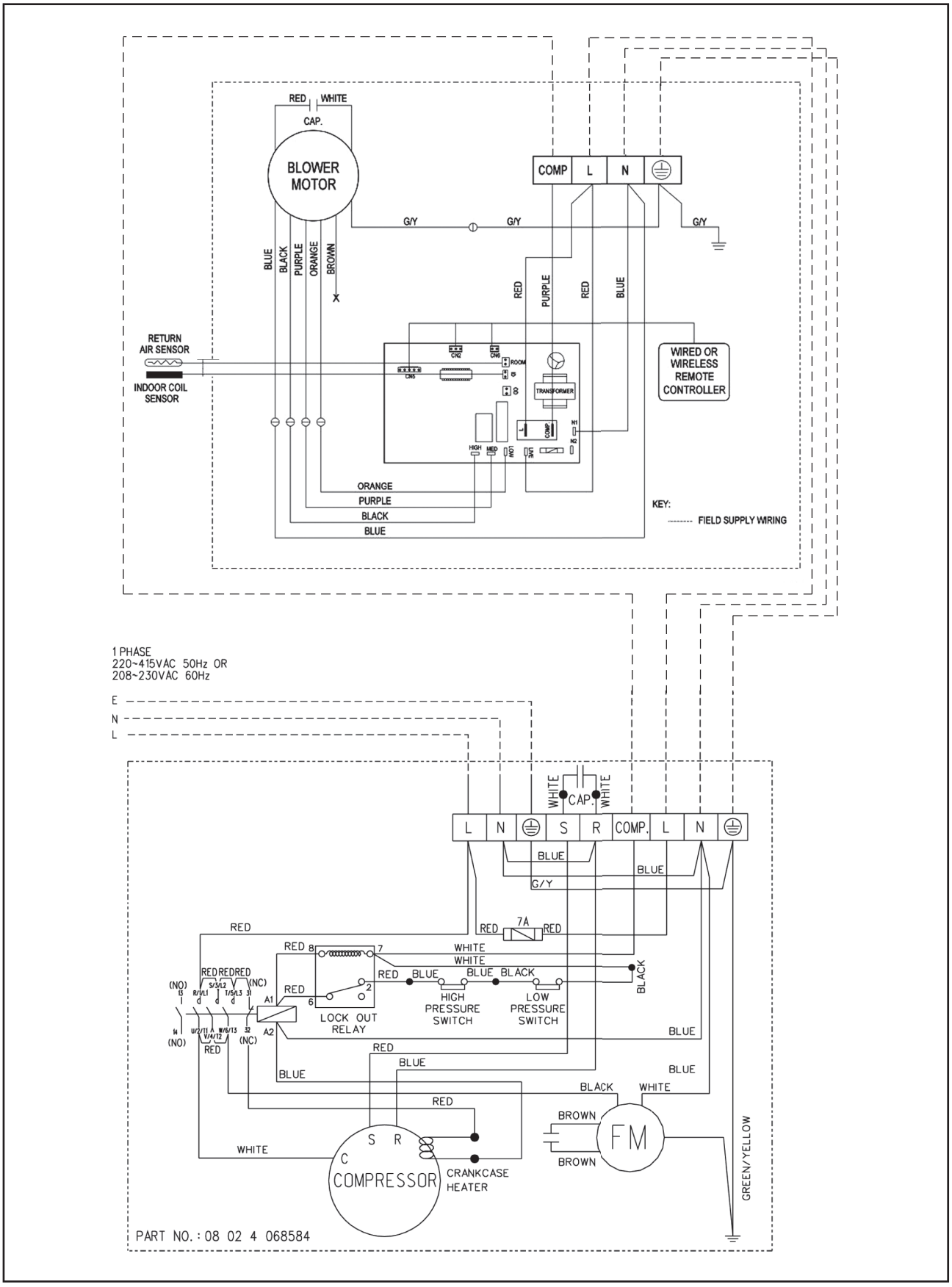
Indoor Unit
Model: FDMRN71CXV1

Outdoor Unit
Model: RR71CXY1



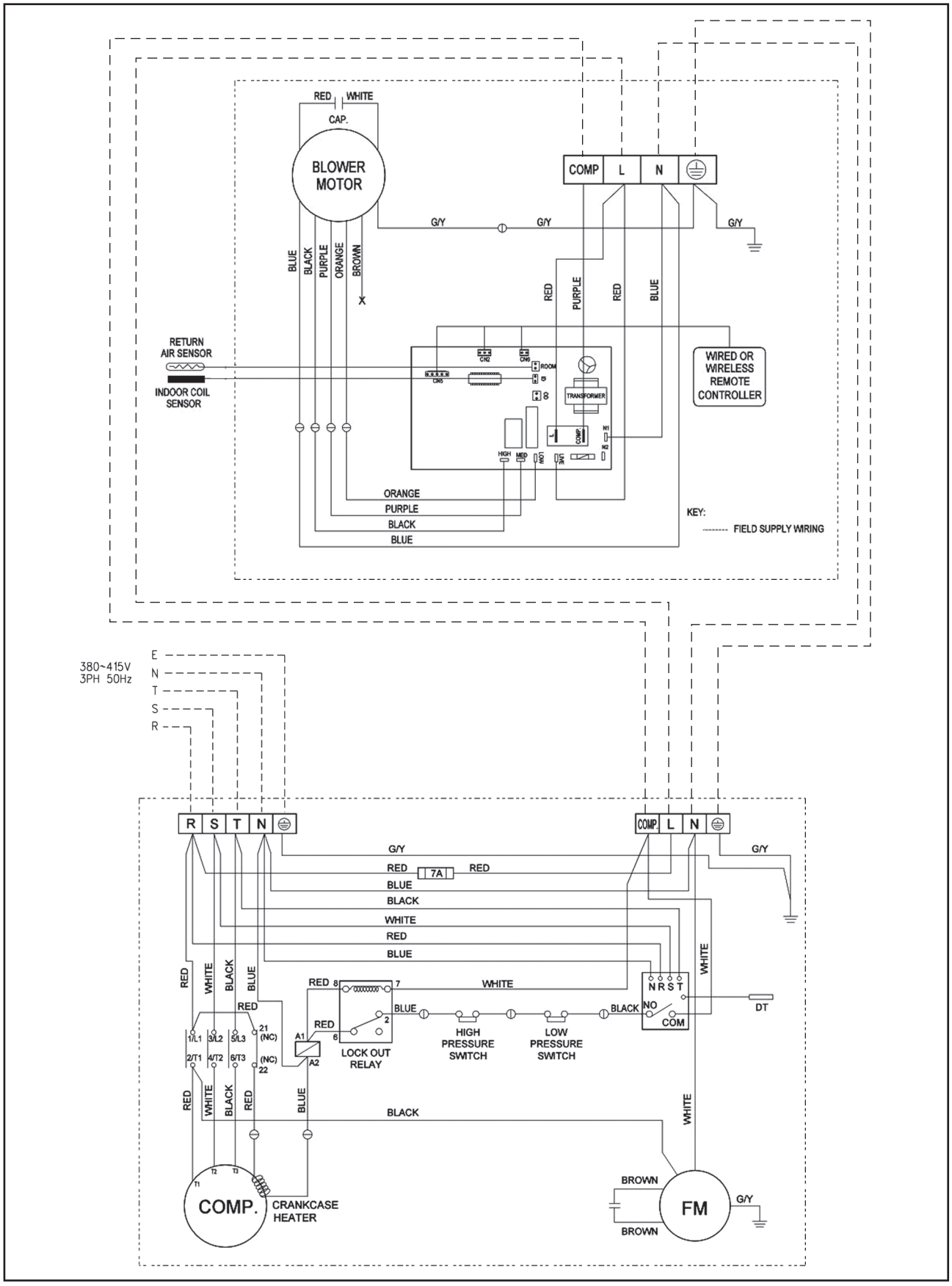
Indoor Unit
Model: FDMRN100CXV1

Outdoor Unit
Model: RR90/100DXV1



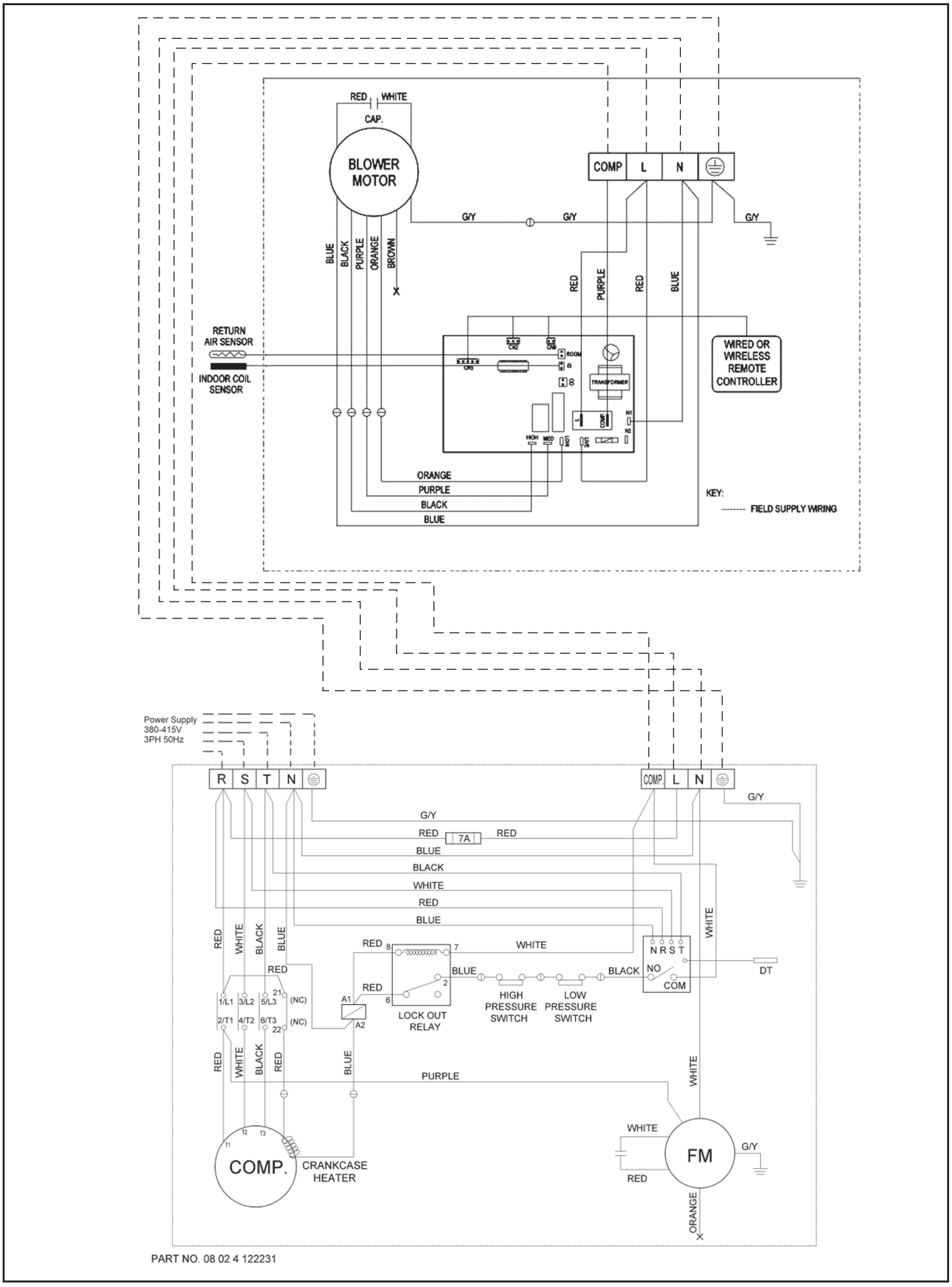
Indoor Unit
Model: FDMRN100/125CXV1

Outdoor Unit
Model: RR90/100/125DXY1



Indoor Unit
Model: FDMRN140CXV1

Outdoor Unit
Model: RR140DXY1

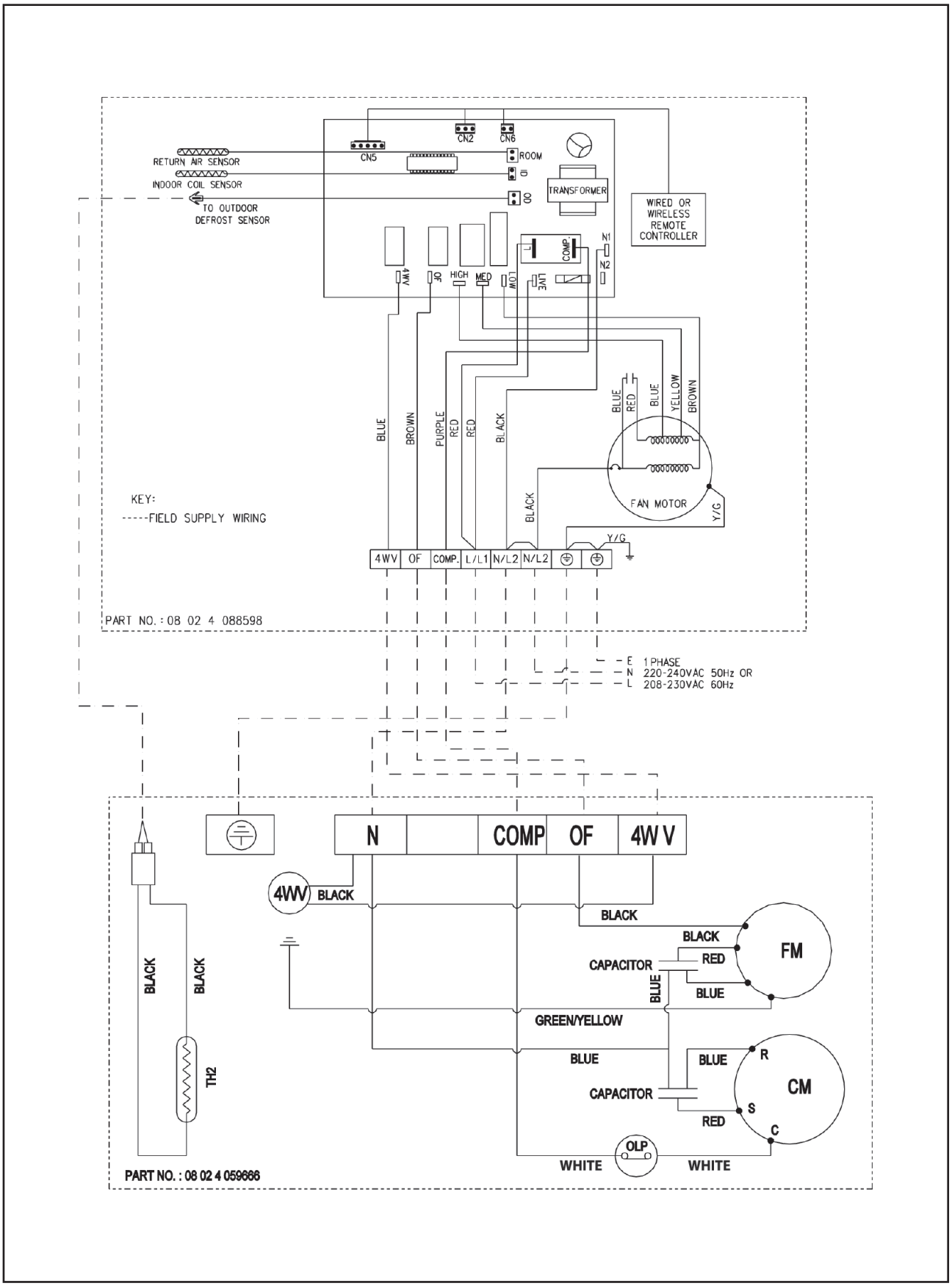


PART NO. 08 02 4 122231

Heatpump

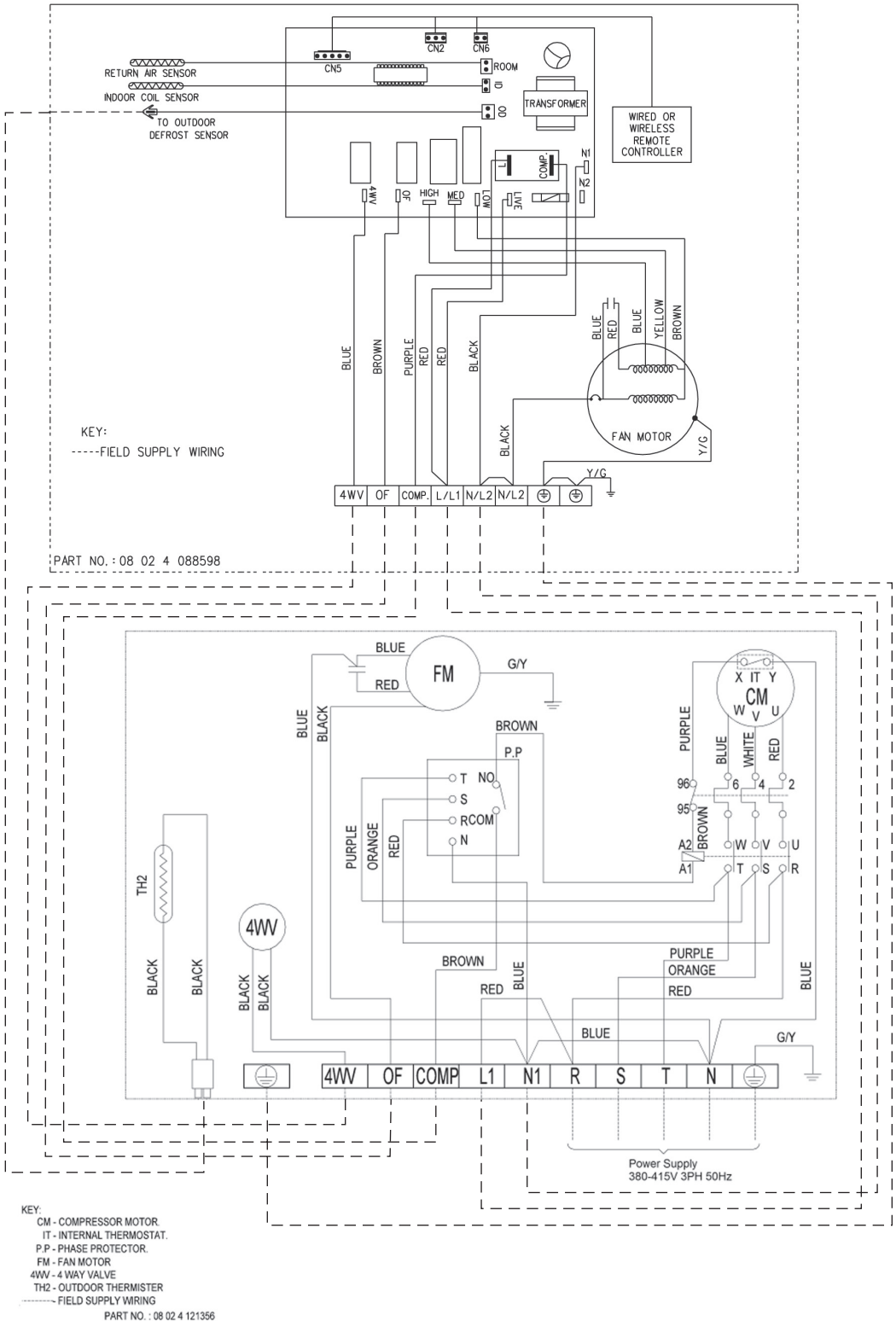
Indoor Unit
Model: FDMQN25/35CXV1

Outdoor Unit
Model: RYN25/35CXV1



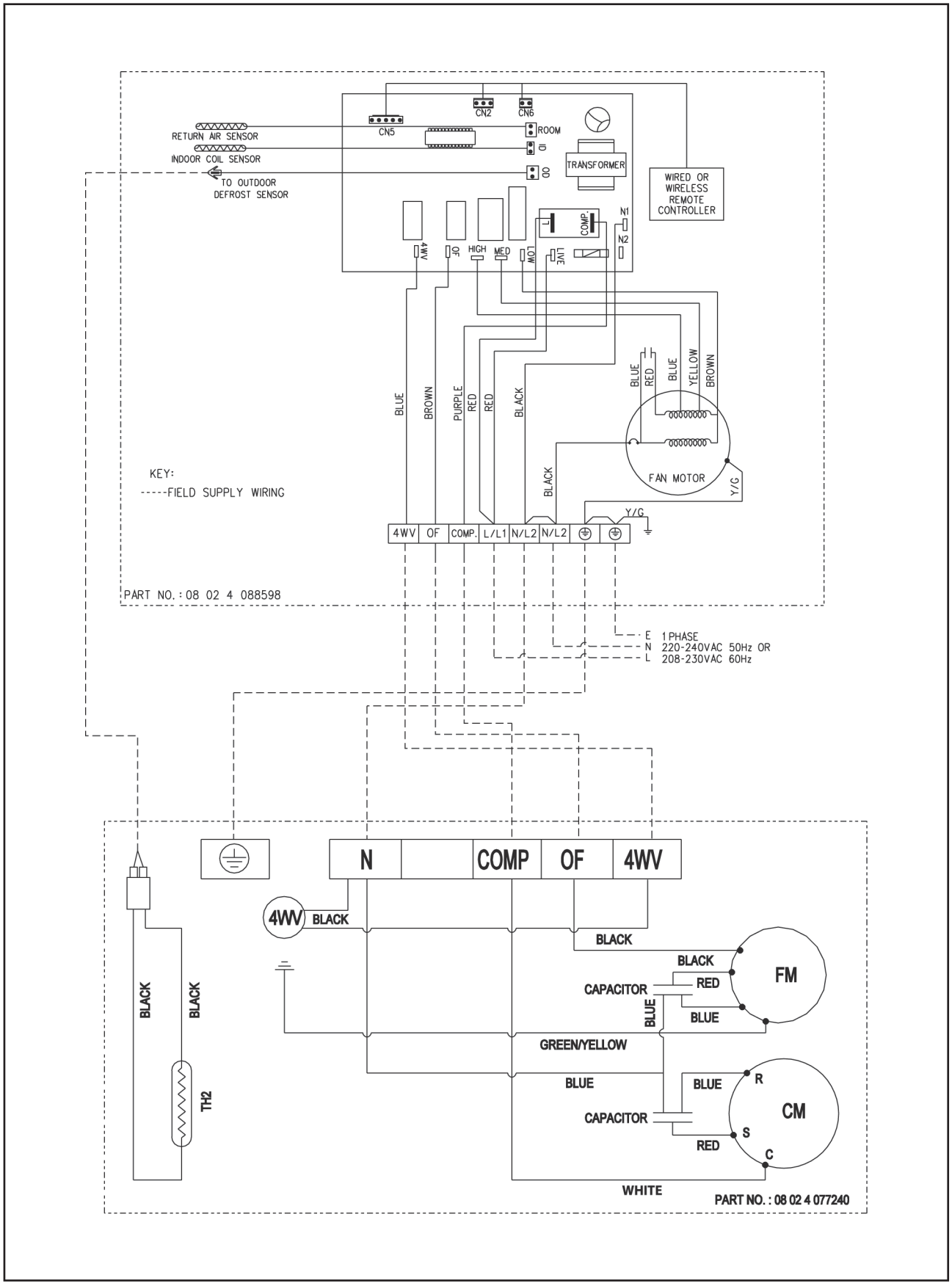
Indoor Unit
Model: FDMQN50/60CXV1

Outdoor Unit
Model: RYN50/60CXY1



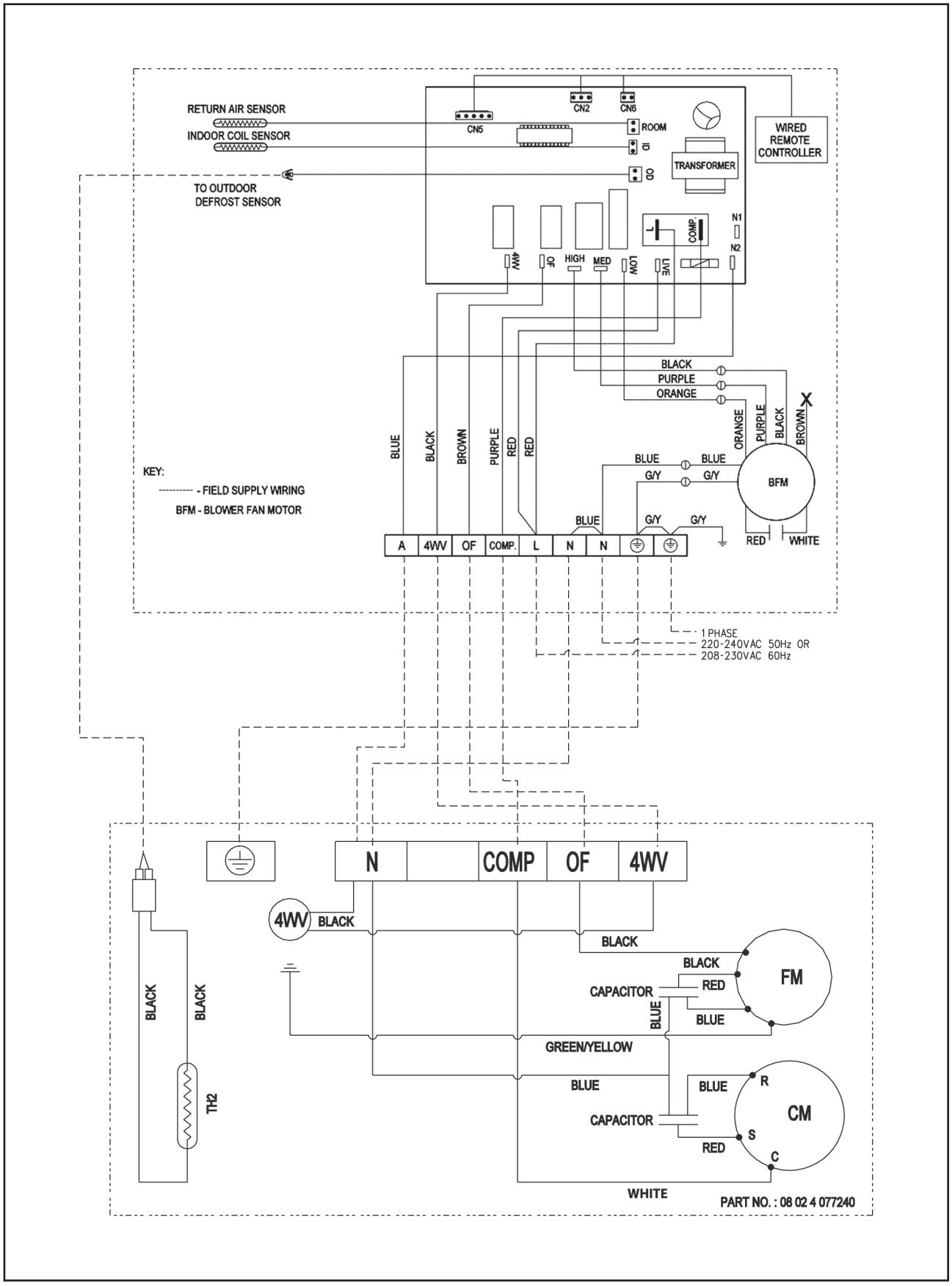
Indoor Unit
Model: FDMQN50/60CXV1

Outdoor Unit
Model: RYN50/60CXV1



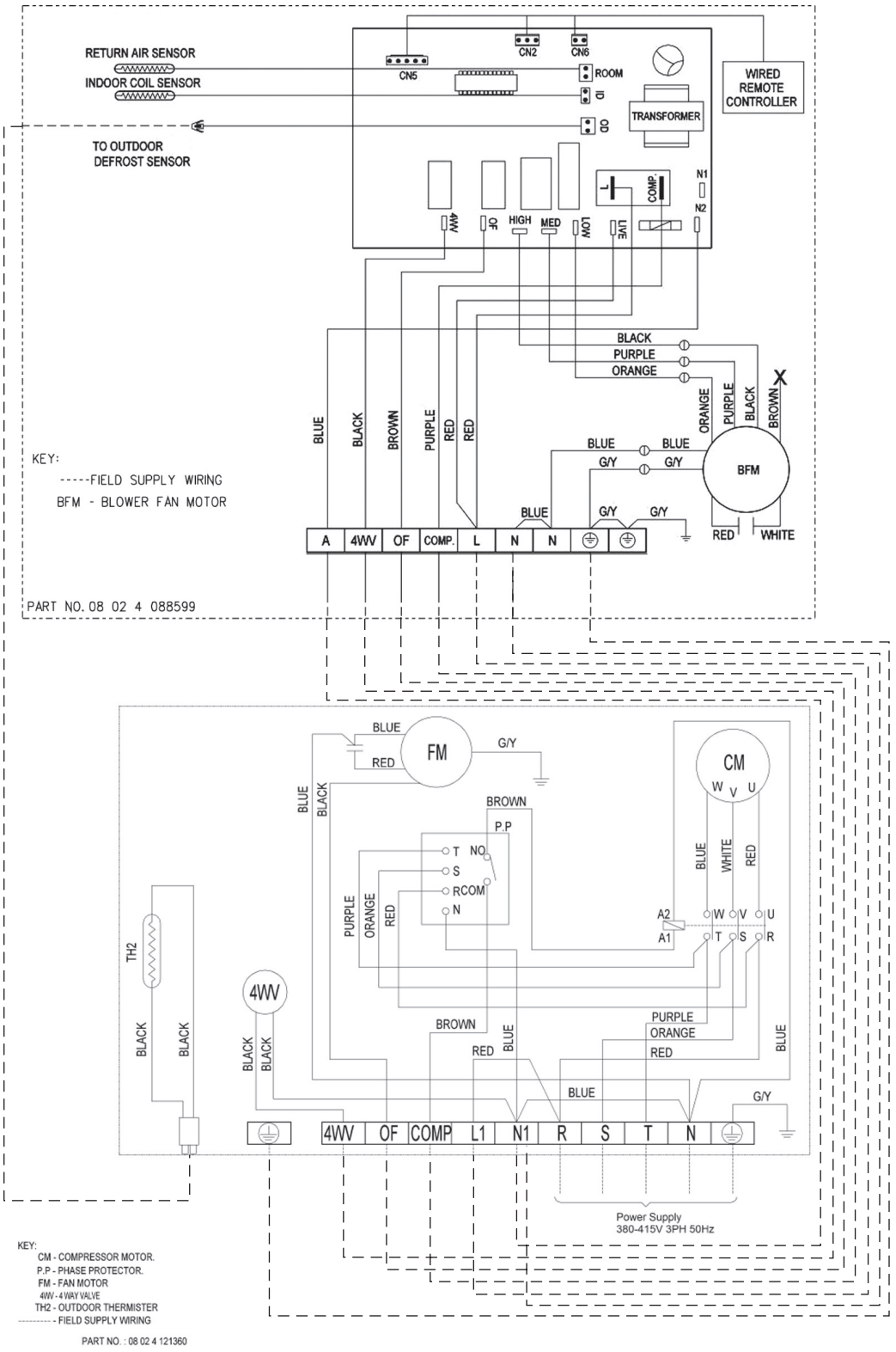
Indoor Unit
Model: FDMQN71CXV1

Outdoor Unit
Model: RR71CXV1



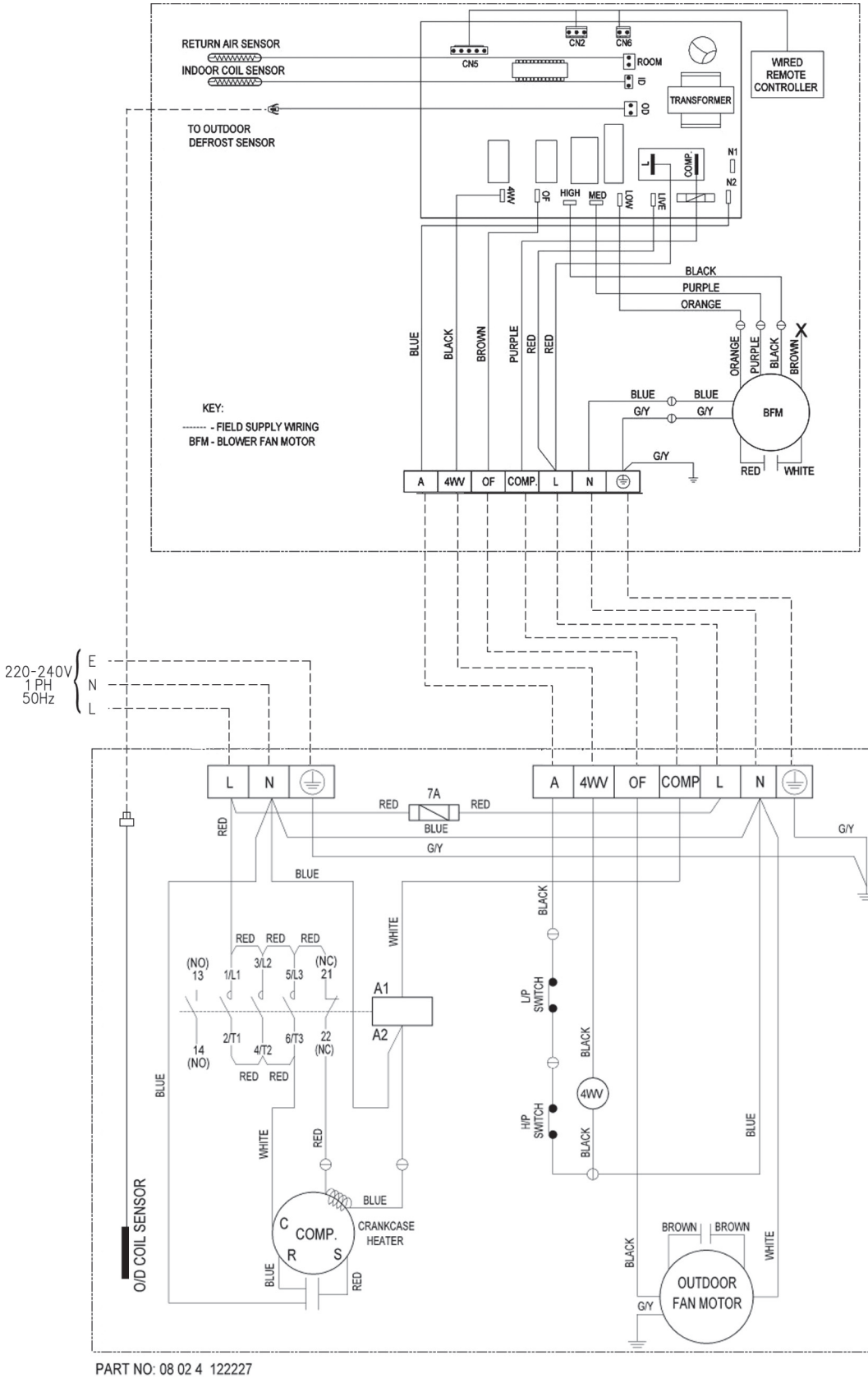
Indoor Unit
Model: FDMQN71CXV1

Outdoor Unit
Model: RR71CXY1



Indoor Unit
Model: FDMQN100CXV1

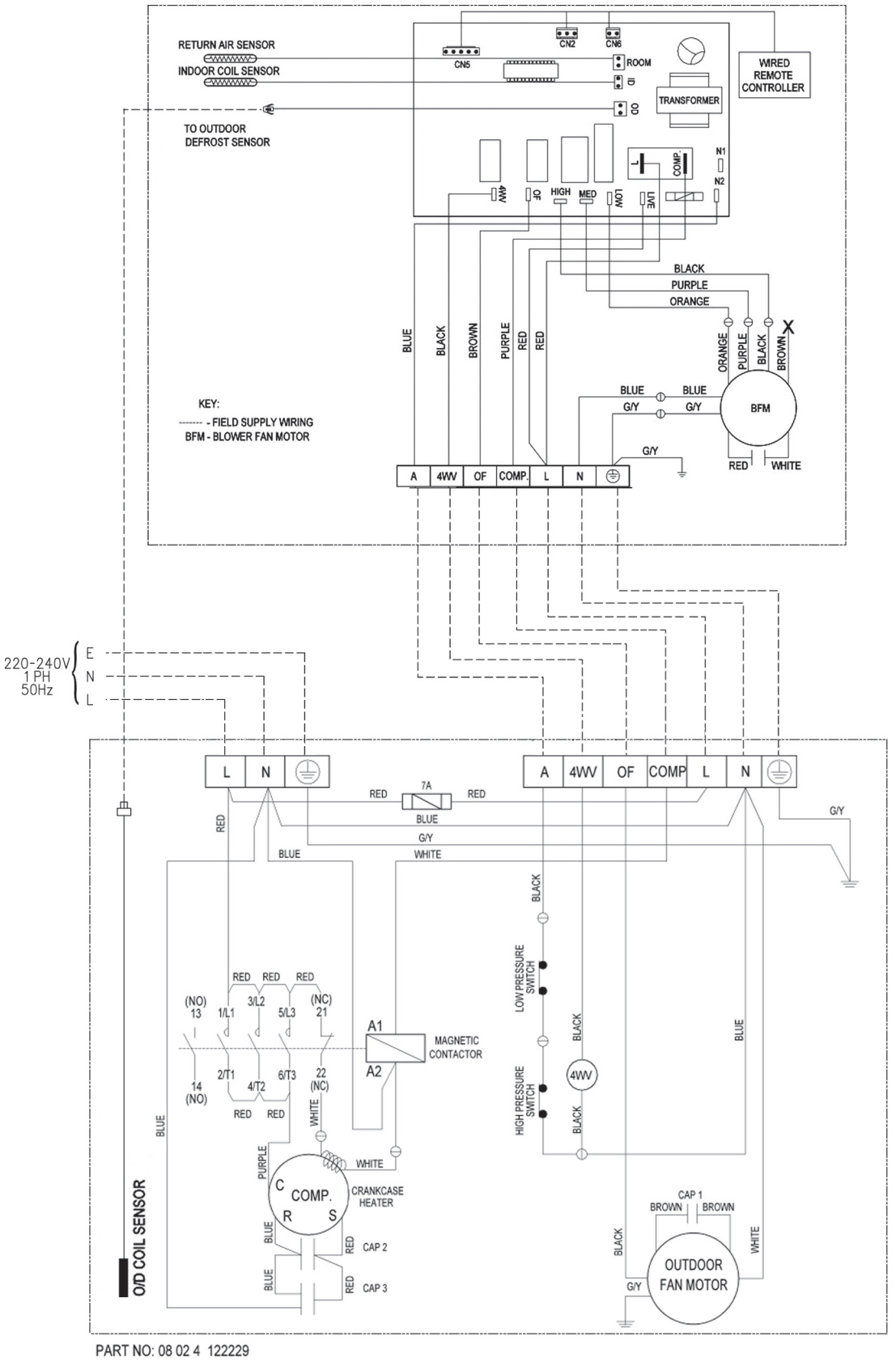
Outdoor Unit
Model: RQ90DXV1



PART NO: 08 02 4 122227

Indoor Unit
Model: FDMQN100CXV1

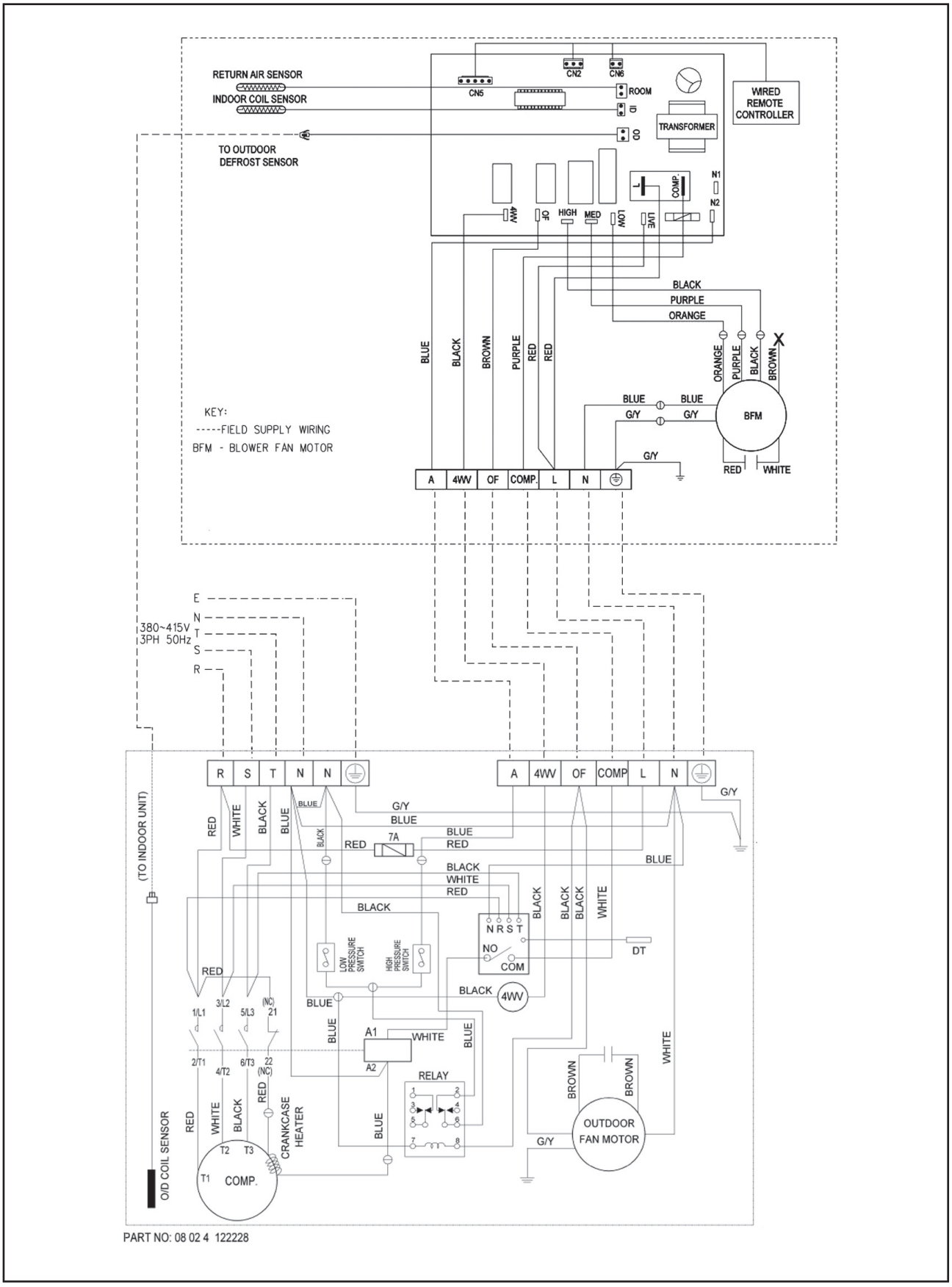
Outdoor Unit
Model: RQ100DXV1



PART NO: 08 02 4 122229

Indoor Unit
Model: FDMQN100/125CXV1

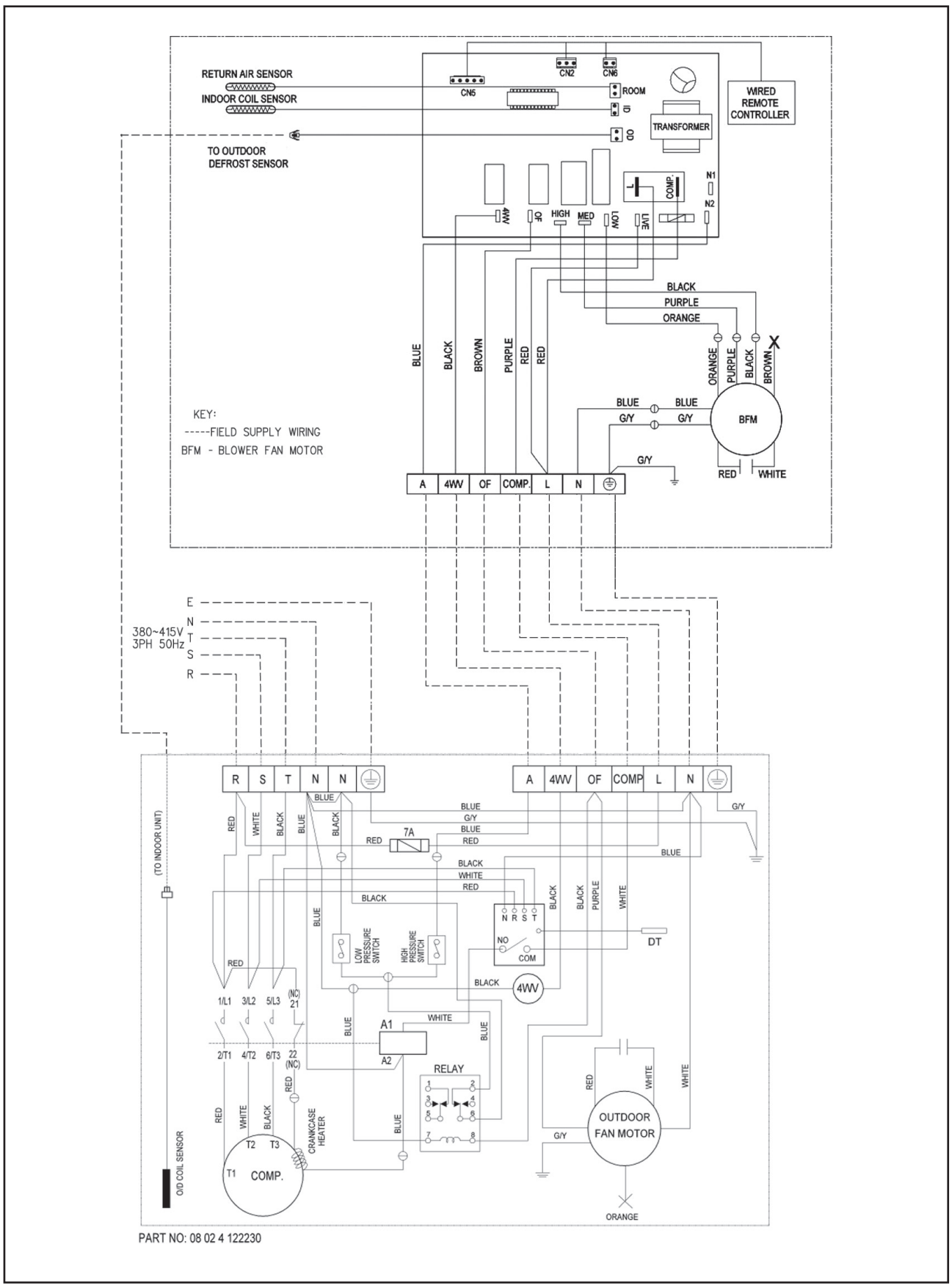
Outdoor Unit
Model: RQ90/100/125DXY1



PART NO: 08 02 4 122228

Indoor Unit
Model: FDMQN140CXV1

Outdoor Unit
Model: RQ140DXY1



PART NO: 08 02 4 122230

Service & Maintenance

⚠ Warning

Disconnect from main supply before servicing the air conditioner.

The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

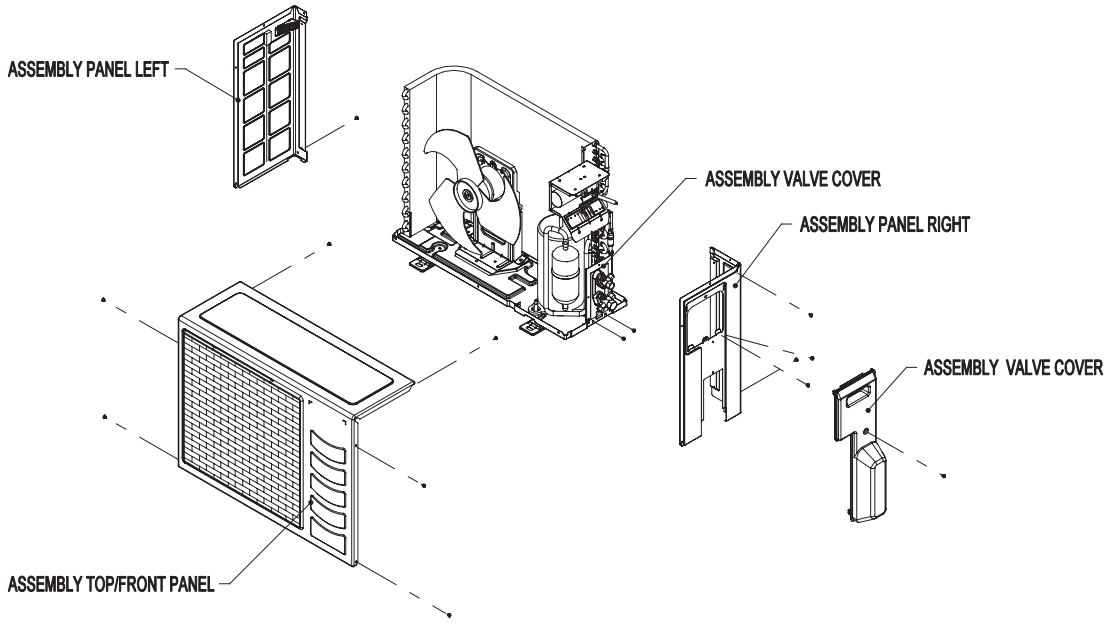
Components	Maintenance Procedure	Recommended Schedule
Air filter (Indoor Unit)	1. Remove the ionizer filter before cleaning the filter. 2. Remove the dust adhering on the filter by using a vacuum cleaner or wash using water less than 40°C with a neutral cleaning detergent. 3. Rinse and dry it before fitting back the ionizer filter and set it back to unit. **4. Note : Never use petrol thinner, benzene or any other chemicals.**	At least once a month.
Indoor unit	1. Clean away dirt or dust on grille or panel by wiping with soft cloth soaked in lukewarm (or cool) water or neutral detergent solution. **2. Note : Never user petrol, thinner, benzene or other volatile chemicals, which may cause plastic surface to deform.**	At least once a month.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor/Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.
Compressor Oil	Oil is factory charged. Not necessary to add oil if circuit remains sealed.	No maintenance required.
Fan Motor Oil	All motors are pre-lubricated and sealed at factory.	No maintenance required.

Pre Start Up Maintenance

(After Extended Shutdown)

- Inspect thoroughly and clean indoor and outdoor units.
- Clean or replace air filters.
- Clean condensates drain line.
- Clean clogged indoor and outdoor coils.
- Check fan imbalance before operation.
- Tighten all wiring connections and panels.
- Check for refrigerant leakage.

For RN/RYN/RR/RQ-C/D Outdoor Models
The design of the RN/RYN/RR/RQ-C/D outdoor series allows servicing to be carried out easily. The removal of the top, front and side panels makes almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once every 3 months. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.

⚠ Caution

Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an air tight test. These gases could cause severe explosion and damage if expose to high temperature and pressure. It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

Troubleshooting

Cooling / Heat pump Model

Seven Segments	Faulty Indication
E1 Blinking	Room air sensor contact loose/short
E2 Blinking	Indoor coil sensor contact loose/short
E3 Blinking	Outdoor coil sensor contact loose/short
E4 Blinking	Compressor overload protection
E5 Blinking	Gas leak
HEAT LED blinking	Defrost mode (BRC51B only)

Phase Sequencer

The unit with Scroll Compressor only can rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

LED / Description	PW (Red)	P_R (Yellow)	P_S (Yellow)	P_T (Yellow)	Actions
Normal Operation	○	●	●	●	-
Reverse Phase	◑	◑	◑	◑	Switch off the unit. Check the 3 phase wiring.
T Phase Missing	◑	●	●	◑	Switch off the unit. Check the 3 phase wiring.
S Phase Missing	◑	●	◑	●	Switch off the unit. Check the 3 phase wiring.
R Phase Missing	●	●	●	●	Switch off the unit. Check the 3 phase wiring.
S & T Phase Missing*	◑	●	◑	◑	Switch off the unit. Check the 3 phase wiring.
Overload*	◑	●	●	●	High discharge temperature. Check refrigerant system.
Sensor Missing*	◑	○	○	○	Switch off the unit. Plug in sensor.

○ ON ● OFF ◑ BLINK

Note:
1. " * " indicates additional function for PP01 phase sequencer.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (COMMON) and 81 (NO) will cut off.
3. The unit will check discharge sensor availability only during power up.
4. All errors can only recover through manually reset.

Error Code / Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.
The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	• The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	• Protection against frequent starting. • Wait for 3 or 4 minutes for the compressor to start operating by it self.
3	The airflow is too slow or room cannot be cooled sufficiently.	• The air filter is dirty. • The doors and windows are opened. • The air suction and discharge of both indoor and outdoor units are clogged or blocked. • The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	• Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. • Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	• This is caused by air humidity after an extended period of operation. • The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	• Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	• Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	• The batteries are discharged. • The batteries are not correctly inserted. • The assembly is not good.
9	Compressor operates continuously.	• Dirty air filter. Clean the air filter. • Temperature setting too low (cooling). Use higher temperature setting. • Temperature setting too high (heating). Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	• Temperature setting too high (cooling). Use lower temperature setting. • Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	• Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guidelines

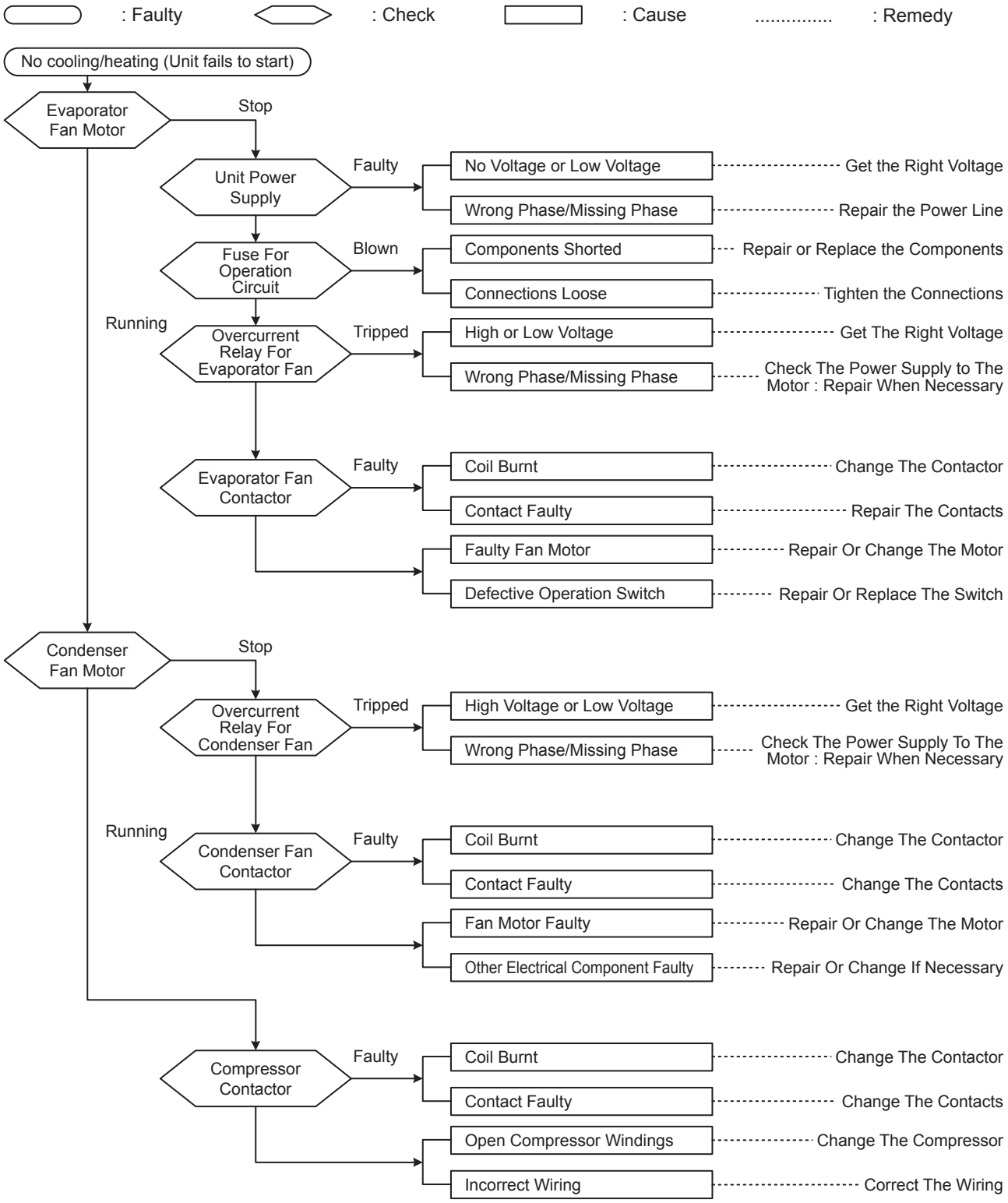
By means of pressure readings:

Data / Circuit	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side **Low side**					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air) 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side **Low side**	•				•	1. Poor compression / no compression (compressor defective) 2. Reversing valve leaking.
High side **Low side**	•	•				**1. Undercharged with refrigerant.** 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side **Low side**				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air)
High side **Low side**				•	•	1. Air intake temperature of indoor unit too high.

BY MEANS OF DIAGNOSTIC FLOW CHART :

Generally, there are two kinds of problems, i.e. starting failure and insufficient cooling/heating. “Starting failure” is caused by electrical defect while improper application or defects in refrigerant circuit causes “Insufficient cooling / heating”.

i) Diagnosis of Electric Circuit

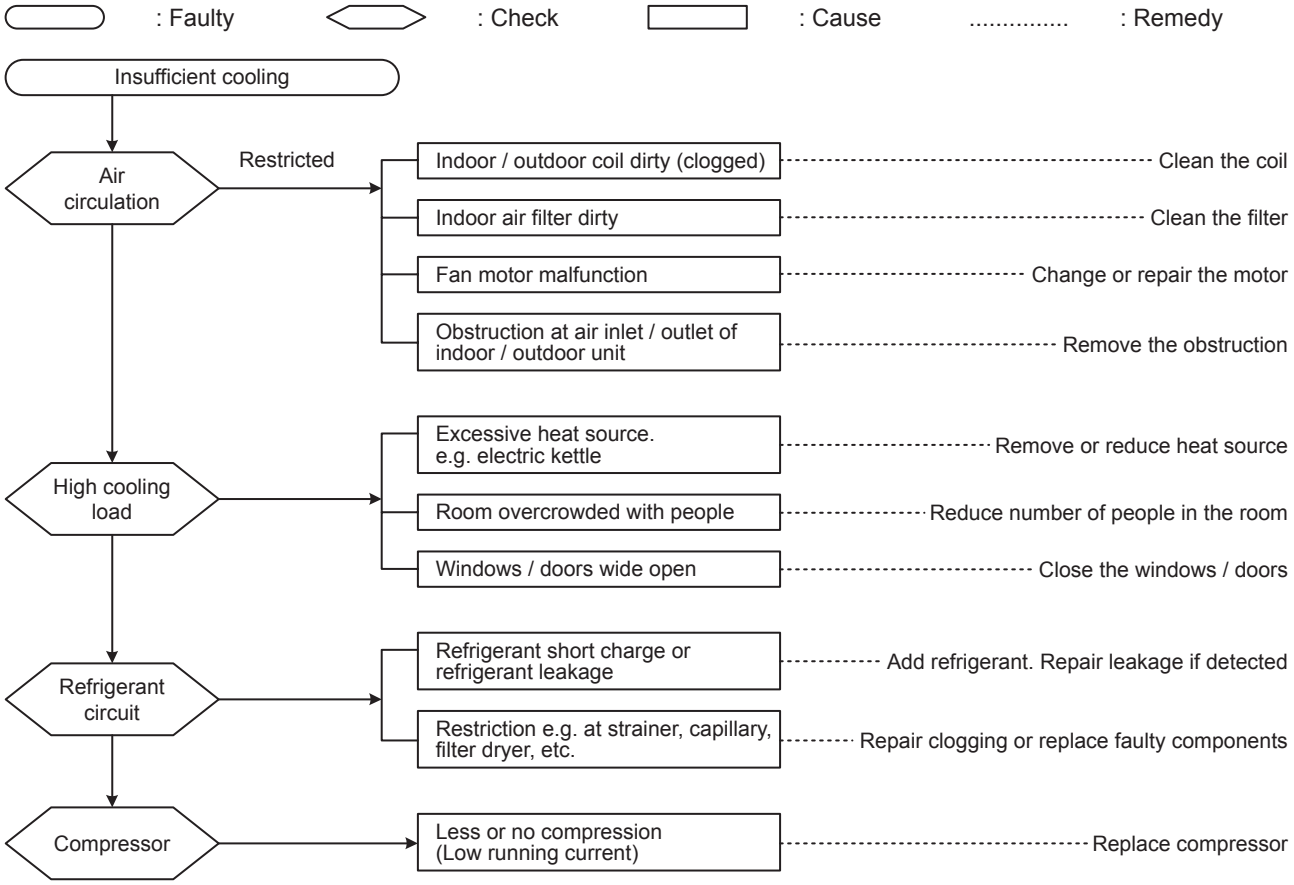


The most common causes of air conditioner failure to “start” are :

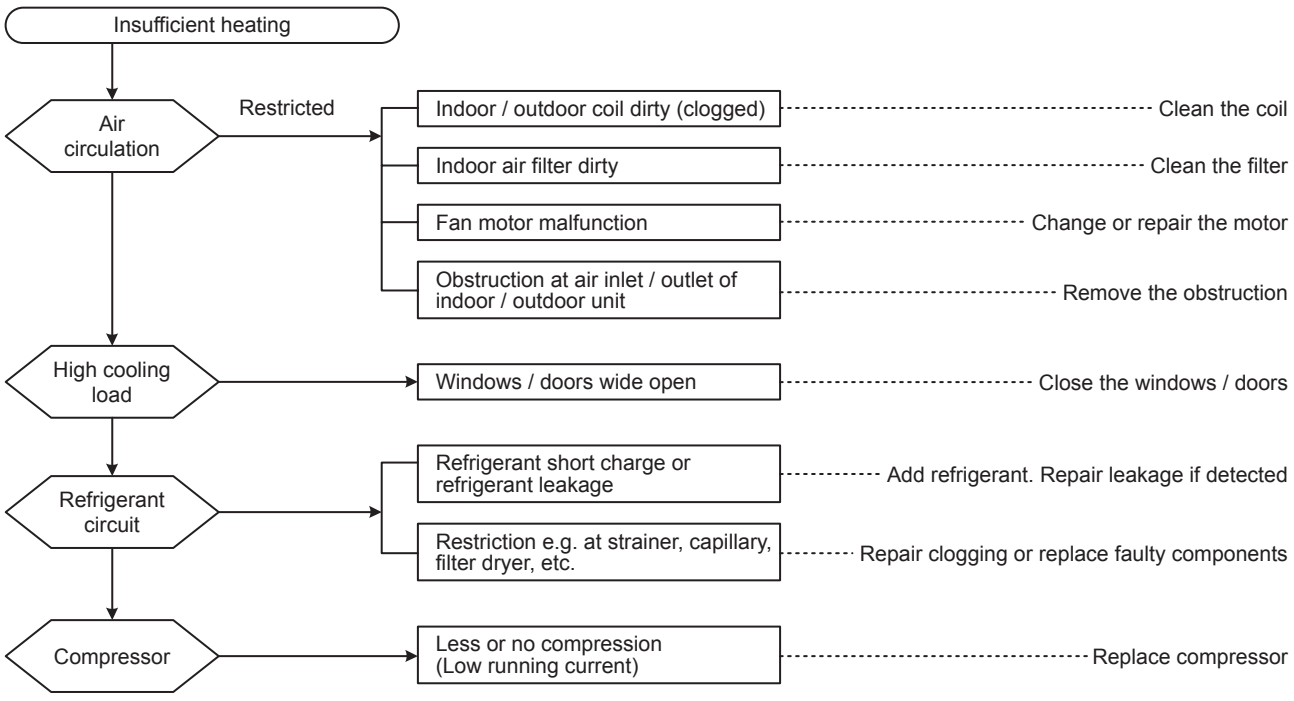
a) Voltage not within ±10% of rated voltage.
b) Power supply interrupted.
c) Improper control settings.
d) Air conditioner is disconnected from main power source.
e) Fuse blown or circuit breaker off.

ii) Diagnosis of Refrigerant Circuit / Application

There might be some causes where the unit starts running but does not perform satisfactorily, i.e. insufficient cooling. Judgement could be made by measuring temperature difference of indoor unit's intake and discharge air as well as running current.



Satisfactory operation with temperature difference of air intake & discharge of indoor unit 8°C to 13°C. *
(* value is for reference only)



Satisfactory operation with temperature difference of air intake & discharge of indoor unit 14°C to 20°C. *
(* value is for reference only)