DAIKIN

SkyAir

Air Conditioning
Technical Data

RZQG-L(8)Y1

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RZQG-L(8)Y1

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1 Features

Industry leading technology for commercial applications and even for technical rooms

- Top efficiency: - energy labels up to A++ in both cooling and heating - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load) - via improved nominal performances
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing R-22 or R-407C systems without having to replace the piping
- Extended operation range down to -20°C in heating and down to -15°C in cooling
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Maximum piping length up to 75m, minimum piping length is 5m.
- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.

Infrastructure cooling

Inverter

Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input					FAQ71C9/RZQG71L8Y1	FAQ100C9/RZQG100L8Y1	FAQ100C9/RZQG71L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	-
Heating capacity	Nom.			kW	7.5	10.8	-
Power input	Cooling	Nom.		kW	2.00	2.63	-
	Heating	Nom.		kW	2.03	3.00	-
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		
		Pdesign		kW	6.80	9.50	6.80
		SEER			6.43	6.11	6.51
		Annual energy consumption		kWh	371	545	366
	Heating (Average climate)	Energy label			A+		
		Pdesign		kW	6.33	10.20	6.33
		SCOP/A			4.02	4.01	4.02
		Annual energy consumption		kWh	2,205	3,562	2,205
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	66	64
	Sound power level indoor	Cooling	Nom.	dBA	61	65	
Nominal efficiency	EER				3.40	3.62	-
	COP				3.70	3.61	-
	Annual energy consumption			kWh	1,000 (1)	1,315	-
	Energy label	Cooling			A		-
		Heating			A		-

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

EER/COP according to Eurovent 2012, for use outside EU only

2-2 Capacity and Power input					FBQ71D/ RZQG71L8Y1	FBQ100D/ RZQG100L8Y 1	FBQ125D/ RZQG125L8Y 1	FBQ140D/ RZQG140LY1	FBQ100D/ RZQG71L8Y1	FBQ140D/ RZQG100L8Y 1	FBQ140D/ RZQG125L8Y 1
Indoor unit					FBQ71D	FBQ100D	FBQ125D	FBQ140D	FBQ100D	FBQ140D	
Outdoor unit					RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1	RZQG140L Y1	RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1
Cooling capacity	Nom.			kW	6.8 (1)	9.5 (1)	12.0 (1)	13.4 (1)	-		
Heating capacity	Nom.			kW	7.50 (1)	10.80 (1)	13.50 (1)	15.50 (1)	-		
Power input	Cooling	Nom.		kW	1.89 (1)	2.49 (1)	3.63 (1)	4.00 (1)	-		
	Heating	Nom.		kW	1.87 (1)	2.45 (1)	3.46 (1)	4.31 (1)	-		
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+	A++	-	A++	A+	A++
		Pdesign		kW	6.80	9.50	12.00	-	6.80	9.50	12.00
		SEER			6.16	5.87	6.11	-	6.16	5.87	6.11
		Annual energy consumption		kWh	386	566	687	-	386	566	687
	Heating (Average climate)	Energy label			A+	A++	A+	-	A+	A++	A+
		Pdesign		kW	6.00	11.30	12.70	-	6.00	11.30	12.70
		SCOP/A			4.31	4.78	4.28	-	4.31	4.78	4.28
		Annual energy consumption		kWh	1,949	3,310	4,154	-	1,949	3,310	4,154
Nominal efficiency	EER				3.60 (2)	3.81 (2)	3.31 (2)	3.35 (2)	-		
	COP				4.01 (2)	4.41 (2)	3.90 (2)	3.60 (2)	-		
	Annual energy consumption			kWh	944	1,247	1,813	-			
	Energy label	Cooling			A			-			
		Heating			A			-			

2 Specifications

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

(2) EER/COP according to Eurovent 2012, for use outside EU only

2-3 Capacity and Power input						FCQG71F/ RZQG71L8Y1	FCQG100F/ RZQG100L8Y1	FCQG125F/ RZQG125L8Y1	FCQG100F/ RZQG71L8Y1	FCQG140F/ RZQG100L8Y1	FCQG140F/ RZQG140LY1	FCQG140F/ RZQG125L8Y1
Indoor unit						FCQG71F	FCQG100F	FCQG125F	FCQG100F	FCQG140F		
Outdoor unit						RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG71L8Y1	RZQG100L8Y1	RZQG140LY1	RZQG125L8Y1
Cooling capacity	Nom.			kW		6.8	9.5	12.0	-		13.4	-
Heating capacity	Nom.			kW		7.5	10.8	13.5	-		15.5	-
Power input	Cooling	Nom.		kW		2.01	2.45	3.22	-		4.17	-
	Heating	Nom.		kW		1.89	2.60	3.72	-		4.30	-
Seasonal efficiency (according to EN14825)	Cooling	Energy label				A++		A+	A++		-	A+
		Pdesign		kW		6.80	9.5	12	6.80	9.50	-	12.00
		SEER				6.72	6.8	6	6.80		-	6.00
		Annual energy consumption		kWh		355	489	700	350	489	-	700
	Heating (Average climate)	Energy label				A+	A++	A+		A++	-	A+
		Pdesign		kW		6.33	11.3	12.66	6.33	11.30	-	12.66
		SCOP/A				4.20	4.61	4.1	4.20	4.61	-	4.10
		Annual energy consumption		kWh		2,110	3,432	4,323	2,110	3,432	-	4,323
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA		64	-					
	Sound power level indoor	Cooling	Nom.	dBA		51	-					
Nominal efficiency	EER					3.39	3.87	3.73	-		3.21	-
	COP					3.97	4.15	3.63	-		3.61	-
	Annual energy consumption			kWh		1,005	1,225	1,610	-			
	Energy label	Cooling				A			-			
		Heating				A			-			

Notes

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-4 Capacity and Power input				FCQHG71F/ RZQG71L8Y1	FCQHG100F/ RZQG100L8Y1	FCQHG125F/ RZQG125L8Y1	FCQHG140F/ RZQG140LY1	FCQHG100F/ RZQG71L8Y1	FCQHG140F/ RZQG100L8Y1	FCQHG140F/ RZQG125L8Y1
Indoor unit				FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQHG100F	FCQHG140F	
Outdoor unit				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1
Cooling capacity	Nom.		kW	6.80	9.5	12.0	13.4	-		
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5	-		
Power input	Cooling	Nom.	kW	1.66	2.15	3.00	4.00	-		
	Heating	Nom.	kW	1.56	2.16	3.07	3.77	-		

2 Specifications

2-4 Capacity and Power input					FCQHG71F/ RZQG71L8Y1	FCQHG100F/ RZQG100L8Y 1	FCQHG125F/ RZQG125L8Y 1	FCQHG140F/ RZQG140LY1	FCQHG100F/ RZQG71L8Y1	FCQHG140F/ RZQG100L8Y 1	FCQHG140F/ RZQG125L8Y 1
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++			-	A++		
		Pdesign		kW	6.80	9.5	12	-	6.80	9.50	12.00
		SEER			6.91	7	6.61	-	7.00		6.61
		Annual energy consumption		kWh	345	475	636	-	340	475	636
	Heating (Average climate)	Energy label			A+	A++		-	A+	A++	
		Pdesign		kW	7.60	11.3	12.66	-	7.60	11.30	12.66
		SCOP/A			4.54	4.8	4.63	-	4.54	4.80	4.63
		Annual energy consumption		kWh	2,344	3,296	3,829	-	2,344	3,296	3,829
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-					
	Sound power level indoor	Cooling	Nom.	dBA	53	-					
Nominal efficiency	EER				4.09	4.42	4.00	3.35	-		
	COP				4.80	4.99	4.40	4.12	-		
	Annual energy consumption			kWh	830	1,075	1,500	-			
	Energy label	Cooling			A			-			
		Heating			A			-			

Notes

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-5 Capacity and Power input				FDQ125C/RZQG125L8Y1
Indoor unit				FDQ125C
Outdoor unit				RZQG125L8Y1
Cooling capacity	Nom.		kW	12.0
Heating capacity	Nom.		kW	13.5
Power input	Cooling	Nom.	kW	3.20
	Heating	Nom.	kW	3.53
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+
		Pdesign	kW	12
		SEER		5.81
		Annual energy consumption	kWh	723
	Heating (Average climate)	Energy label		A+
		Pdesign	kW	12.71
		SCOP/A		4.21
		Annual energy consumption	kWh	4,227
Nominal efficiency	EER			3.75
	COP			3.83
	Annual energy consumption		kWh	1,600
	Energy label	Cooling		A
		Heating		A

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2 Specifications

2-6 Capacity and Power input						FHQ71CB/ RZQG71L8Y1	FHQ100CB/ RZQG100L8Y1	FHQ125CB/ RZQG125L8Y1	FHQ140CB/ RZQG140LY1	FHQ100CB/ RZQG71L8Y1	FHQ140CB/ RZQG100L8Y1	FHQ140CB/ RZQG125L8Y1
Cooling capacity	Nom.			kW		6.8	9.5	12.0	13.4	-		
Heating capacity	Nom.			kW		7.5	10.8	13.5	15.5	-		
Power input	Cooling	Nom.		kW		1.78	2.49	3.58	4.05	-		
	Heating	Nom.		kW		1.82	2.60	3.48	4.27	-		
Seasonal efficiency (according to EN14825)	Cooling	Energy label				A++	-					
		Pdesign		kW		6.80	9.50	12.00	-	6.80	9.50	12.00
		SEER				6.86	6.11	6.01	-	6.95	6.11	6.01
		Annual energy consumption		kWh		347	545	699	-	343	545	699
	Heating (Average climate)	Energy label				A+	-					
		Pdesign		kW		7.60	11.30	14.13	-	7.60	11.30	14.13
		SCOP/A				4.32	4.61	4.23	-	4.32	4.61	4.23
		Annual energy consumption		kWh		2,463	3,432	4,677	-	2,463	3,432	4,677
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA		64	66	67	-	64	66	67
	Sound power level indoor	Cooling	Nom.	dBA		55	60	62	-	60	64	
Nominal efficiency	EER					3.82	3.81	3.35	3.31	-		
	COP					4.13	4.15	3.89	3.63	-		
	Annual energy consumption			kWh		890 (1)	1,245 (1)	1,790 (1)	2,025 (1)	-		
	Energy label	Cooling				A	-					
		Heating				A	-					

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

EER/COP according to Eurovent 2012, for use outside EU only

2-7 Capacity and Power input						FUQ71C/RZQG71L8Y1	FUQ100C/RZQG71L8Y1	FUQ125C/RZQG125L8Y1	FUQ100C/RZQG100L8Y1
Indoor unit						FUQ71C	FUQ100C	FUQ125C	FUQ100C
Outdoor unit						RZQG71L8Y1		RZQG125L8Y1	RZQG100L8Y1
Cooling capacity	Nom.			kW		6.8	-	12.0	9.5
Heating capacity	Nom.			kW		7.5	-	13.5	10.8
Power input	Cooling	Nom.		kW		1.68	-	3.54	2.46
	Heating	Nom.		kW		1.84	-	3.95	2.73
Seasonal efficiency (according to EN14825)	Cooling	Energy label				A++		A+	A++
		Pdesign		kW		6.80		12	9.5
		SEER				6.42	6.50	5.61	6.11
		Annual energy consumption		kWh		371	367	749	545
	Heating (Average climate)	Energy label				A+			
		Pdesign		kW		7.60		14.13	11.3
		SCOP/A				4.20		4.44	4.5
		Annual energy consumption		kWh		2,534		4,456	3,516
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA		64	-		
	Sound power level indoor	Cooling	Nom.	dBA		59	-		
Nominal efficiency	EER					4.05	-	3.39	3.86
	COP					4.08	-	3.42	3.95
	Annual energy consumption			kWh		840 (1)	-	1,770	1,230
	Energy label	Cooling				A	-	A	
		Heating				A	-	B	A

2 Specifications

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

EER/COP according to Eurovent 2012, for use outside EU only

2-8 Capacity and Power input					FVQ71C/ RZQG71L8Y1	FVQ100C/ RZQG100L8Y1	FVQ125C/ RZQG125L8Y1	FVQ140C/ RZQG140LY1	FVQ100C/ RZQG71L8Y1	FVQ140C/ RZQG100L8Y1	FVQ140C/ RZQG125L8Y1
Indoor unit					FVQ71C	FVQ100C	FVQ125C	FVQ140C	FVQ100C	FVQ140C	
Outdoor unit					RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	-		
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	-		
Power input	Cooling	Nom.		kW	2.02	2.49	3.74	4.17	-		
	Heating	Nom.		kW	2.06	2.61	3.65	4.30	-		
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+		-	A++	A+	
		Pdesign		kW	6.80	9.5	12	-	6.80	9.50	12.00
		SEER			6.23	5.61		-	6.31	5.61	
		Annual energy consumption		kWh	383	593	749	-	378	593	749
	Heating (Average climate)	Energy label			A+		A	-	A+		A
		Pdesign		kW	6.33	11.3		-	6.33	11.30	
		SCOP/A			4.05	4.2	3.87	-	4.05	4.20	3.87
		Annual energy consumption		kWh	2,189	3,767	4,088	-	2,189	3,767	4,088
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-					
	Sound power level indoor	Cooling	Nom.	dBA	55	-					
Nominal efficiency	EER				3.37	3.81	3.21		-		
	COP				3.64	4.14	3.70	3.61	-		
	Annual energy consumption			kWh	1,010 (1)	1,245	1,870	2,085	-		
	Energy label	Cooling			A			-			
		Heating			A			-			

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

EER/COP according to Eurovent 2012, for use outside EU only

2-9 Technical Specifications					RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Capacity control	Method				Inverter controlled			
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height		mm	990	1,430		
		Width		mm	940			
		Depth		mm	320			
	Packed unit	Height		mm	1,170	1,610		
		Width		mm	1,015			
		Depth		mm	422			
Weight	Unit			kg	80	101		
	Packed unit			kg	87	110		
Heat exchanger	Fin	Type			WF fin			
		Treatment			Anti-corrosion treatment (PE)			

2 Specifications

2-9 Technical Specifications					RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
	Starting method				Inverter driven			
Fan	Type				Propeller fan			
	Discharge direction				Horizontal			
	Quantity				1	2		
	Air flow rate	Cooling	Nom.	m³/min	59	70		84
		Heating	Nom.	m³/min	49	62		
Fan motor	Quantity				1	2		
	Model				Brushless DC motor			
	Output			W	94			
	Drive				Direct drive			
	Speed	Cooling	Super low	rpm	-			
		Heating	Super low	rpm	-			
Sound power level	Cooling			dBA	64	66	67	69
	Heating			dBA	-			
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52
	Heating	Nom.		dBA	50	52	53	
	Night quiet mode	Level 1		dBA	43	45		
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			Max.	°CDB	50			
	Heating	Ambient	Min.	°CWB	-20			
			Max.	°CWB	15.5			
Refrigerant	Type				R-410A			
	Charge			kg	2.9	4.0		
				TCO_2eq	6.1	8.4		
	Control				Expansion valve (electronic type)			
	GWP				2,087.5			
	Circuits	Quantity			1			
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD		mm	9.52			
	Gas	Quantity			1			
		Type			Flare connection			
		OD		mm	15.9			
	Drain	Quantity			5			
		Type			Hole			
		ID		mm	-			
		OD		mm	26			
	Piping length	OU - IU	Min.	m	5 (1)			
			Max.	m	50	75		
		System	Equivalent	m	70	90		
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30.0			
		IU - IU	Max.	m	0.5			
	Heat insulation				Both liquid and gas pipes			
Refrigerant oil	Type				FVC50K			
	Charged volume			l	0.9	1.35		
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01			High pressure switch			
		02			Fan driver overload protector			
		03			Fuse			

2 Specifications

Standard Accessories : Tie-wraps; Quantity : 2;
Standard Accessories : Installation manual; Quantity : 1;

2-10 Electrical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Power supply	Name			Y1			
	Phase			3N~			
	Frequency		Hz	50			
	Voltage		V	380-415			
	Voltage range	Min.	%	10			
		Max.	%	10			
Current - 50Hz	Maximum fuse amps (MFA)		A	16	25		
Current	Zmax	List		Complies to EN61000-3-11			
	Recommended fuses		A	16	25		
Current - 60Hz	Maximum fuse amps (MFA)		A	-			
Wiring connections	For power supply	Remark		See installation manual outdoor unit			
	For connection with indoor	Remark		See installation manual outdoor unit			
Power supply intake				Outdoor unit only			

Notes

(1) 3 with re-charging

PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

See separate drawing for electrical data

Contains fluorinated greenhouse gases

MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

3 Electrical data

3 - 1 Electrical Data

RZQG100-125L8Y1

Unit combination			Minimum Ssc value [kVA]
FFQ35B9V1B	x3	RZQG100L8Y1B	936
FFQ50B9V1B	x2		951
FHQ35BWV1B	x3		977
FHQ50BWV1B	x2		936
FBQ35C8VEB	x3		1092
FBQ50C8VEB	x2		1014
FCQG35FVEB	x3		915
FCQG50FVEB	x2		899
FBQ100C8VEB	x1		962
FCQG100FVEB	x1		905
FCQHG100FVEB	x1		941
FAQ100CVEB	x1		884
FVQ100CVEB	x1		936
FHQG100CVEB	x1		936
FUQ100BWV1B	x1		925
FFQ35B9V1B	x4	RZQG125L8Y1B	962
FFQ50B9V1B	x3		993
FFQ60B9V1B	x2		951
FHQ35BWV1B	x4		1014
FHQ50BWV1B	x3		977
FHQ60BWV1B	x2		936
FBQ35C8VEB	x4		1170
FBQ50C8VEB	x3		1092
FBQ60C8VEB	x2		1003
FCQG35FVEB	x4		936
FCQG50FVEB	x3		915
FCQG60FVEB	x2		899
FBQ125C8VEB	x1		993
FCQG125FVEB	x1		925
FCQHG125FVEB	x1		951
FVQ125CVEB	x1		936
FHQG125CVEB	x1		962
FUQ125BWV1B	x1		925
FDQ125C7VEB	x1		993

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NOTES

- In accordance with EN/IEC 61000-3-12[(1)], it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc[(2)] ≧ minimum Ssc value.

- [(1)] European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≦ 75A per phase.
  [(2)] Short-circuit power

3 Electrical data

3 - 1 Electrical Data

RZQG71-100L8Y1

									Compressor		OFM		IFM	
Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQG71EVEB		RZQG71L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	11,5	–	16	–	9,6	0,094	0,4	0,048	0,4
FCQHG71FVEB		RZQG71L8Y1B			11,6	–	16	–	9,6	0,094	0,4	0,091	0,5
FCQG35FVEB	×2	RZQG71L8Y1B			11,8	–	16	–	9,6	0,094	0,4	0.044×2	0.3×2
FCQG71FVEB		RZQG71L8Y1B			11,5	–	16	–	9,6	0,094	0,4	0,054	0,4
FFQ35C2VEB	×2	RZQG71L8Y1B			12,0	–	16	–	9,6	0,094	0,4	0.05×2	0.4×2
FDXS35F2VEB	×2	RZQG71L8Y1B			11,8	–	16	–	9,6	0,094	0,4	0.034×2	0.3×2
FBQ35C8VEB	×2	RZQG71L8Y1B			14,0	–	16	–	9,6	0,094	0,4	0.140×2	1.2×2
FBQ71C8VEB		RZQG71L8Y1B			12,4	–	16	–	9,6	0,094	0,4	0,350	1,1
FAQ71CVEB9		RZQG71L8Y1B			11,5	–	16	–	9,6	0,094	0,4	0,048	0,4
FVQ71CVEB		RZQG71L8Y1B			11,8	–	16	–	9,6	0,094	0,4	0,117	0,6
FHQ35CBVEB	x2	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,060x2	0,6 x 2
FHQ71CBVEB		RZQG71L8Y1B			12,0	–	16	–	9,6	0,094	0,4	0,091	0,8
FUQ71CVEB		RZQG71L8Y1B			12,1	–	16	–	9,6	0,094	0,4	0,046	0,9
FCQG100EVEB		RZQG100L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,106	1
FCQHG100FVEB		RZQG100L8Y1B			18,1	–	20	–	14,2	0.094+0.094	0.4+0.4	0,221	1,3
FCQG35FVEB	×3	RZQG100L8Y1B			17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0.044×3	0.3×3
FCQG50FVEB	×2	RZQG100L8Y1B			17,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0.039×2	0.3×2
FCQG100FVEB		RZQG100L8Y1B			17,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,117	0,7
FFQ35C2VEB	×3	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FFQ50C2VEB	×2	RZQG100L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0.05×2	0.4×2
FDXS35F2VEB	×3	RZQG100L8Y1B			17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0.034×3	0.3×3
FDXS50F2VEB9	x2	RZQG100L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0.06x2	0.5x2
FBQ35C8VEB	×3	RZQG100L8Y1B			21,0	–	25	–	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ50C8VEB	×2	RZQG100L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0.140×2	1.2×2
FBQ100C8VEB		RZQG100L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,350	1,6
FAQ100CVEB9		RZQG100L8Y1B			17,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,064	0,4
FVQ100CVEB		RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CBVEB	x3	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ50CBVEB	x2	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x 2	0,6 x 2
FHQ100CBVEB		RZQG100L8Y1B			18,1	–	20	–	14,2	0.094+0.094	0.4+0.4	0,150	1,3
FUQ100CVEB		RZQG100L8Y1B			18,1	–	20	–	14,2	0.094+0.094	0.4+0.4	0,106	1,3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

3D077810C

3 Electrical data

3 - 1 Electrical Data

RZQG71-100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,8	16	–	9,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L8Y1B				12	16	–	9,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L8Y1B				17,9	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L8Y1B				18,1	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG71-100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,9	16	–	9,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L8Y1B				17,9	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

3 Electrical data

3 - 1 Electrical Data

RZQG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ35D2VEB	RZQG100L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	18,7	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L8Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ60D2VEB	RZQG125L8Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG125L8Y1B				18,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG125L8Y1B				19,4	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L7Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L7Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L7Y1B				18,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L7Y1B				19,4	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ35A2VEB	RZQG100L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	17,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L8Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L8Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L8Y1B				18,2	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L7Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG140L7Y1B				18,2	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

3 Electrical data

3 - 1 Electrical Data

RZQG125-140L(8)Y1

									Compressor		OFM		IFM	
Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQG125EVEB		RZQG125L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V	Maximum 456 V	17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG125FVEB		RZQG125L8Y1B				18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4	RZQG125L8Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3	RZQG125L8Y1B				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG60FVEB	×2	RZQG125L8Y1B				17,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB		RZQG125L8Y1B				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1
FFQ35C2VEB	×4	RZQG125L8Y1B				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3	RZQG125L8Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FFQ60C2VEB	×2	RZQG125L8Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×2	0.6×2
FDXS35F2VEB	×4	RZQG125L8Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	x3	RZQG125L8Y1B				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FDXS60F2VEB	×2	RZQG125L8Y1B				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060×2	0.5×2
FBQ35C8VEB	×4	RZQG125L8Y1B				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3	RZQG125L8Y1B				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2	RZQG125L8Y1B				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB		RZQG125L8Y1B				19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FDQ125C7VEB		RZQG125L8Y1B				19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FVQ125CVEB		RZQG125L8Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CBVEB	x4	RZQG125L8Y1B				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CBVEB	x3	RZQG125L8Y1B				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ60CBVEB	x2	RZQG125L8Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x 2	0,6 x 2
FHQ125CBVEB		RZQG125L8Y1B				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,5
FUQ125CVEB		RZQG125L8Y1B				18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,4
FCQG71EVEB	×2	RZQG140L7Y1B	3N~ 50Hz 380-415V	Minimum: 342 V	Maximum 456 V	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FCQG140EVEB		RZQG140L7Y1B				17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG71FVEB	×2	RZQG140L7Y1B				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB		RZQG140L7Y1B				18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4	RZQG140L7Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3	RZQG140L7Y1B				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2	RZQG140L7Y1B				17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB		RZQG140L7Y1B				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1
FFQ35C2VEB	×4	RZQG140L7Y1B				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3	RZQG140L7Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FDXS35F2VEB	×4	RZQG140L7Y1B				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×4	RZQG140L7Y1B				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FBQ35C8VEB	×4	RZQG140L7Y1B				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3	RZQG140L7Y1B				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2	RZQG140L7Y1B				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB		RZQG140L7Y1B				19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FHQ140CBVEB		RZQG140L7Y1B				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG140L7Y1B				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,046 x 2	0,9 x 2

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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3 Electrical data

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RZQG71-100L8Y1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG100FVEB		RZQG71L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	12,6	–	16	–	9,6	0,094	0,4	0,221	1,3
FCQG35FVEB	x3	RZQG71L8Y1B			12,1	–	16	–	9,6	0,094	0,4	0,044 x3	0,3 x3
FCQG50FVEB	x2	RZQG71L8Y1B			11,8	–	16	–	9,6	0,094	0,4	0,039 x2	0,3 x2
FCQG100FVEB		RZQG71L8Y1B			11,9	–	16	–	9,6	0,094	0,4	0,117	0,7
FFQ35C2VEB	x3	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,050 x3	0,4 x3
FFQ50C2VEB	x2	RZQG71L8Y1B			12,0	–	16	–	9,6	0,094	0,4	0,050 x2	0,4 x2
FBQ35D2VEB	x3	RZQG71L8Y1B			13,3	–	16	–	9,6	0,094	0,4	0,089 x3	0,6 x3
FBQ50D2VEB	x2	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,089 x2	0,6 x2
FBQ100D2VEB		RZQG71L8Y1B			12,3	–	16	–	9,6	0,094	0,4	0,127	1,0
FHQ35CAVEB	x3	RZQG71L8Y1B			13,3	–	16	–	9,6	0,094	0,4	0,060 x3	0,6 x3
FHQ50CAVEB	x2	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,060 x2	0,6 x2
FHQ100CAVEB		RZQG71L8Y1B			12,6	–	16	–	9,6	0,094	0,4	0,150	1,3
FUQ100CVEB		RZQG71L8Y1B			12,6	–	16	–	9,6	0,094	0,4	0,106	1,3
FAQ100CVEB		RZQG71L8Y1B			11,5	–	16	–	9,6	0,094	0,4	0,064	0,4
FVQ100CVEB		RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,238	1,2
FDXS35F2VEB	x3	RZQG71L8Y1B			12,1	–	16	–	9,6	0,094	0,4	0,034 x3	0,3 x3
FDXS50F2VEB9	x2	RZQG71L8Y1B			12,3	–	16	–	9,6	0,094	0,4	0,060 x2	0,5 x2
FCQHG71FVEB	x2	RZQG100L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG100L8Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG100L8Y1B			17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG100L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG100L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG100L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG100L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG100L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG100L8Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG100L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG100L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG100L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG100L8Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG100L8Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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3 Electrical data

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RZQG125-140L(8)Y1

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Infrastructure Cooling

								Compressor		OFM		IFM	
Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQHG71FVEB	x2	RZQG125L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG125L8Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG125L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG125L8Y1B			17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG125L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG125L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG125L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG125L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG125L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG125L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG125L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG125L8Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG125L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG125L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG125L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG125L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG125L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG125L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG125L8Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG125L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG125L8Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3
FCQHG71FVEB	x2	RZQG140L7Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG140L7Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG140L7Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG140L7Y1B			17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG140L7Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG140L7Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG140L7Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG140L7Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG140L7Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG140L7Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG140L7Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG140L7Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG140L7Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG140L7Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG140L7Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG140L7Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG140L7Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG140L7Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG140L7Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG140L7Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG140L7Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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4 Options

4 - 1 Options

RZQG-L(8)Y1

Available options for RZQG models:

Name of option		Kit name			
		RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Bottom plate heater		EKBPH140L7: See note 1			
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T): See note 2			
	Triple	-	KHRQ127H (KHRQ58H): See note 2		
	Double twin	-	-	KHRQ22M20TA (KHRQ58T): See note 2 (3x)	
Demand adapter kit		KRP58M51			

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NOTES

1 For combination of RZQG71L8V1 and EKBPH140L7 it is required to use the demand adapter kit KRP58M51 in order to connect the bottom plate heater.
2 For RZQ(S)G71-140L(8)Y1 in combination with FCQG35-71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

5 Combination table

5 - 1 Combination Table

RZQG-L(8)Y1

SkyAir		High Cassette				Thin cassette							2x2 cassette			Duct (medium ESP)							Ceiling-suspended							Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)	Floor standing type				Slim duct			Concealed floor standing type	
Model		FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35D2VEB	FBQ50D2VEB	FBQ60D2VEB	FBQ71D2VEB	FBQ100D2VEB	FBQ125D2VEB	FBQ140D2VEB	FHQ35CBVEB	FHQ50CBVEB	FHQ60CBVEB	FHQ71CBVEB	FHQ100CBVEB	FHQ125CBVEB	FHQ140CBVEB	FUQ71CVEB	FUQ100CVEB	FUQ125CVEB	FAQ71CVEB9	FAQ100CVEB9	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB	FDXS50F2VEB9	FDXS60F2VEB	FNQ35A2VEB	FNQ50A2VEB
RZQG71L9V1B	RZQG71L8Y1B		P			3	2			P			3	2		3	2			P			3	2			P				P			P				P		3	2			
RZQG100L9V1B	RZQG100L8Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3			
RZQG125L9V1B	RZQG125L8Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3			
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3			

Possible combinations
- P= Pair
- 2= Twin
- 3= Triple
- 4= Double twin

Notes
1. The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.

Twin : KHRQ22M20T or KHRQ58T
Triple : KHRQ127H or KHRQ58H
Double twin : KHRQ22M20T or KHRQ58T

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RZQG-L9V1
RZQG-L(8)Y1

Possible combinations

	71	100	125	140
P= Pair				
2= Twin	35+35	50+50	60+60	71+71
3= Triple		35+35+35	50+50+50 (*)	50+50+50 (*)
4= Double twin			35+35+35+35 (*)	35+35+35+35

(*): Maximum capacity of outdoor units

Sky Air		High Cassette				Thin cassette							2x2 cassette			Duct (medium ESP)							Ceiling-suspended							Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)	Floor standing type				Slim duct		
Model		FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35C8VEB	FBQ50C8VEB	FBQ60C8VEB	FBQ71C8VEB	FBQ100C8VEB	FBQ125C8VEB	FBQ140C8VEB	FHQ35CBVEB	FHQ50CBVEB	FHQ60CBVEB	FHQ71CBVEB	FHQ100CBVEB	FHQ125CBVEB	FHQ140CBVEB	FUQ71CVEB	FUQ100CVEB	FUQ125CVEB	FAQ71CVEB9	FAQ100CVEB9	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB	FDXS50F2VEB9	FDXS60F2VEB
RZQG71L9V1B	RZQG71L8Y1B	P				2			P				2			2			P				2			P				P			P			P				2		
RZQG100L9V1B	RZQG100L8Y1B		P			3	2			P			3	2		3	2			P			3	2			P				P			P			P			3	2	
RZQG125L9V1B	RZQG125L8Y1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P				P			P					4	3	2
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3	

Sky Air		High Cassette				Thin cassette							2x2 cassette			Duct (medium ESP)							Ceiling-suspended							Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)	Floor standing type				Slim duct		
Model		FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35C8VEB	FBQ50C8VEB	FBQ60C8VEB	FBQ71C8VEB	FBQ100C8VEB	FBQ125C8VEB	FBQ140C8VEB	FHQ35CBVEB	FHQ50CBVEB	FHQ60CBVEB	FHQ71CBVEB	FHQ100CBVEB	FHQ125CBVEB	FHQ140CBVEB	FUQ71CVEB	FUQ100CVEB	FUQ125CVEB	FAQ71CVEB9	FAQ100CVEB9	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB	FDXS50F2VEB9	FDXS60F2VEB
RZQSG71L3V1B		P				2			P				2			2			P				2			P				P			P			P				2		
RZQSG100L9V1B	RZQSG100L8Y1B		P			3	2			P			3	2		3	2			P			3	2			P				P			P			P			3	2	
RZQSG125L9V1B	RZQSG125L8Y1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P				P			P					4	3	2
RZQSG140L9V1B	RZQSG140L7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3	

Sky Air			Duct (medium ESP)						Concealed floor standing type	
Model			FBQ35D2VEB	FBQ50D2VEB	FBQ60D2VEB	FBQ71D2VEB	FBQ100D2VEB	FBQ125D2VEB	FBQ140D2VEB	FNQ25A2VEB	FNQ35A2VEB	FNQ50A2VEB	FNQ60A2VEB
RZQG71L9V1B	RZQG71L8Y1B	RZQSG71L3V1B		2			P				2		
RZQG100L9V1B	RZQG100L8Y1B	RZQSG100L9V1B	RZQSG100L8Y1B	3	2			P			3	2	
RZQG125L9V1B	RZQG125L8Y1B	RZQSG125L9V1B	RZQSG125L8Y1B	4	3	2			P		4	3	2
RZQG140L9V1B	RZQG140L7Y1B	RZQSG140L9V1B	RZQSG140L7Y1B	4	3		2			P	4	3	

Notes

1. The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.

Twin : KHRQ22M20TA or KHRQ58T
Triple : KHRQ127H or KHRQ58H
Double twin : KHRQ22M20TA or KHRQ58T

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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG71L9V1
RZQG71L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																	
			-15			-10			-5			0			5			10		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	4.81	3.98	0.34	4.81	3.98	0.36	4.81	3.98	0.37	4.81	3.98	0.39	4.81	3.98	0.41	4.81	3.98	0.43
41.8	11	18	4.81	4.67	0.34	4.81	4.67	0.36	4.81	4.67	0.37	4.81	4.67	0.39	4.81	4.67	0.41	4.81	4.67	0.43
57	13		6.02	5.05	0.37	6.02	5.05	0.41	6.02	5.05	0.45	6.02	5.05	0.50	6.02	5.05	0.52	6.02	5.05	0.55
31.4	11	20	4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43
44.9	13		6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55
52	14		6.62	5.76	0.38	6.62	5.76	0.44	6.62	5.76	0.50	6.62	5.76	0.55	6.62	5.76	0.58	6.62	5.76	0.60
22.9	11	22	4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43
34.8	13		6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55
47.6	15		7.22	6.06	0.39	7.22	6.06	0.46	7.22	6.06	0.54	7.22	6.06	0.61	7.22	6.06	0.63	7.22	6.06	0.66
54.3	16		7.82	5.71	0.41	7.82	5.71	0.49	7.82	5.71	0.58	7.82	5.71	0.66	7.82	5.71	0.69	7.82	5.71	0.72
21.2	12	24	5.41	5.41	0.36	5.41	5.41	0.38	5.41	5.41	0.41	5.41	5.41	0.44	5.41	5.41	0.46	5.41	5.41	0.49
32.1	14		6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60
43.8	16		7.82	6.57	0.41	7.82	6.57	0.49	7.82	6.57	0.58	7.82	6.57	0.66	7.82	6.57	0.69	7.82	6.57	0.72
50	17		8.10	6.08	0.43	8.10	6.08	0.51	8.10	6.08	0.60	8.10	6.08	0.68	8.10	6.08	0.70	8.10	6.08	0.73
21.5	14	27	6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60
26.3	15		7.22	7.22	0.39	7.22	7.22	0.46	7.22	7.22	0.54	7.22	7.22	0.61	7.22	7.22	0.63	7.22	7.22	0.66
31.3	16		7.82	7.82	0.41	7.82	7.82	0.49	7.82	7.82	0.58	7.82	7.82	0.66	7.82	7.82	0.69	7.82	7.82	0.72

Indoor			Outdoor temperature [°C DB]																	
			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	4.81	3.98	0.46	4.81	3.98	0.48	5.90	5.25	0.98	5.85	5.22	1.09	5.80	5.20	1.19	5.76	5.17	1.30
41.8	11	18	4.81	4.67	0.46	4.81	4.67	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
57	13		6.02	5.05	0.57	6.02	5.05	0.64	7.49	5.89	0.99	7.23	5.75	1.10	6.96	5.61	1.20	6.70	5.47	1.31
31.4	11	20	4.81	4.81	0.46	4.81	4.81	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
44.9	13		6.02	6.02	0.57	6.02	6.02	0.64	7.49	7.00	0.99	7.23	6.81	1.10	6.96	6.60	1.20	6.70	6.37	1.31
52	14		6.62	5.76	0.63	6.62	5.76	0.72	8.15	6.56	0.99	7.74	6.36	1.10	7.34	6.15	1.20	6.93	5.93	1.31
22.9	11	22	4.81	4.81	0.46	4.81	4.81	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
34.8	13		6.02	6.02	0.57	6.02	6.02	0.64	7.49	7.49	0.99	7.23	7.23	1.10	6.96	6.96	1.20	6.70	6.70	1.31
47.6	15		7.22	6.06	0.69	7.22	6.06	0.79	8.41	7.00	1.00	7.99	6.80	1.11	7.58	6.60	1.21	7.16	6.37	1.32
54.3	16		7.82	5.71	0.75	7.82	5.71	0.87	8.68	6.54	1.00	8.25	6.35	1.11	7.83	6.14	1.21	7.40	5.92	1.32
21.2	12	24	5.41	5.41	0.52	5.41	5.41	0.56	6.70	6.70	0.99	6.54	6.54	1.10	6.38	6.38	1.20	6.23	6.23	1.31
32.1	14		6.62	6.62	0.63	6.62	6.62	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
43.8	16		7.82	6.57	0.75	7.82	6.57	0.87	8.68	7.45	1.00	8.25	7.26	1.11	7.83	7.04	1.21	7.40	6.82	1.32
50	17		8.10	6.08	0.75	8.10	6.08	0.88	8.96	6.99	1.00	8.53	6.80	1.11	8.09	6.59	1.21	7.66	6.37	1.32
21.5	14	27	6.62	6.62	0.63	6.62	6.62	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
26.3	15		7.22	7.22	0.69	7.22	7.22	0.79	8.41	8.41	1.00	7.99	7.99	1.11	7.58	7.58	1.21	7.16	7.16	1.32
31.3	16		7.82	7.82	0.75	7.82	7.82	0.87	8.68	8.68	1.00	8.25	8.25	1.11	7.83	7.83	1.21	7.40	7.40	1.32

Symbols
TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
3. CPI is a percentage value compared to the rated value which is 1.00.
4. For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
5. The error rate for this value is less than 5% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG100F	FCQG100F	FAQ100C	FVQ100C	FHQ100C	FUQ100C	FBQ100D
Cooling	1,66	2,01	2,00	2,02	1,78	1,67	1,89

Twin

	FCQG50F x 2	FHQ50C x 2	FFQ50C x 2	FDXS50F9 x 2	FBQ50D x 2
Cooling	2,04	2,34	2,02	2,23	2,02

Triple

	FCQG35F X 3	FHQ35CA X 3	FFQ35C X 3	FDXS35F x 3	FBQ35D X 3
Cooling	2,06	2,39	2,07	2,26	2,11

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RZQG100L9V1
RZQG100L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																	
			-15			-10			-5			0			5			10		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	6.00	5.63	0.33	6.00	5.63	0.34	6.00	5.63	0.35	6.00	5.63	0.37	6.00	5.63	0.38	6.00	5.63	0.38
41.8	11	18	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38
57	13		7.48	6.37	0.42	7.48	6.37	0.44	7.48	6.37	0.45	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46
31.4	11	20	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38
44.9	13		7.48	7.25	0.42	7.48	7.25	0.44	7.48	7.25	0.45	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46
52	14		8.22	7.18	0.47	8.22	7.18	0.48	8.22	7.18	0.49	8.22	7.18	0.51	8.22	7.18	0.50	8.22	7.18	0.49
22.9	11	22	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38
34.8	13		7.48	7.48	0.42	7.48	7.48	0.44	7.48	7.48	0.45	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46
47.6	15		8.96	7.82	0.52	8.96	7.82	0.53	8.96	7.82	0.54	8.96	7.82	0.55	8.96	7.82	0.54	8.96	7.82	0.53
54.3	16		9.70	7.54	0.56	9.70	7.54	0.58	9.70	7.54	0.59	9.70	7.54	0.60	9.70	7.54	0.59	9.70	7.54	0.57
21.2	12	24	6.74	6.74	0.38	6.74	6.74	0.39	6.74	6.74	0.40	6.74	6.74	0.41	6.74	6.74	0.42	6.74	6.74	0.42
32.1	14		8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49
43.8	16		9.70	8.68	0.56	9.70	8.68	0.58	9.70	8.68	0.59	9.70	8.68	0.60	9.70	8.68	0.59	9.70	8.68	0.57
50	17		9.98	7.86	0.58	9.98	7.86	0.59	9.98	7.86	0.60	9.98	7.86	0.61	9.98	7.86	0.60	9.98	7.86	0.60
21.5	14	27	8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49
26.3	15		8.96	8.96	0.52	8.96	8.96	0.53	8.96	8.96	0.54	8.96	8.96	0.55	8.96	8.96	0.54	8.96	8.96	0.53
31.3	16		9.70	9.70	0.56	9.70	9.70	0.58	9.70	9.70	0.59	9.70	9.70	0.60	9.70	9.70	0.59	9.70	9.70	0.57

Indoor			Outdoor temperature [°C DB]																	
			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	6.00	5.63	0.39	6.00	5.63	0.39	8.36	7.11	1.00	7.92	6.83	1.10	7.48	6.53	1.20	7.09	6.28	1.29
41.8	11	18	6.00	6.00	0.39	6.00	6.00	0.39	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.43	1.20	7.09	7.15	1.29
57	13		7.48	6.37	0.45	7.48	6.37	0.46	9.71	7.67	1.00	9.30	7.42	1.11	8.90	7.16	1.21	8.45	6.88	1.30
31.4	11	20	6.00	6.00	0.39	6.00	6.00	0.39	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
44.9	13		7.48	7.25	0.45	7.48	7.25	0.46	9.71	8.53	1.00	9.30	8.28	1.11	8.90	8.01	1.21	8.45	7.74	1.30
52	14		8.22	7.18	0.49	8.22	7.18	0.49	10.50	8.45	1.01	10.23	8.31	1.11	9.96	8.17	1.21	9.68	7.94	1.31
22.9	11	22	6.00	6.00	0.39	6.00	6.00	0.39	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
34.8	13		7.48	7.48	0.45	7.48	7.48	0.46	9.71	9.71	1.00	9.30	9.30	1.11	8.90	8.90	1.21	8.45	8.45	1.30
47.6	15		8.96	7.82	0.52	8.96	7.82	0.52	11.28	9.19	1.01	10.89	8.96	1.11	10.51	8.72	1.22	10.12	8.48	1.32
54.3	16		9.70	7.54	0.55	9.70	7.54	0.56	11.84	8.40	1.01	11.40	8.22	1.11	11.03	8.04	1.22	10.58	7.77	1.32
21.2	12	24	6.74	6.74	0.42	6.74	6.74	0.42	9.04	9.04	1.00	8.61	8.61	1.10	8.19	8.19	1.21	7.77	7.77	1.30
32.1	14		8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
43.8	16		9.70	8.68	0.55	9.70	8.68	0.56	11.84	9.74	1.01	11.40	9.51	1.12	11.03	9.32	1.22	10.58	9.06	1.32
50	17		9.98	7.86	0.60	9.98	7.86	0.60	12.39	9.45	1.02	11.86	9.16	1.12	11.33	8.86	1.22	10.80	8.52	1.33
21.5	14	27	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
26.3	15		8.96	8.96	0.52	8.96	8.96	0.52	11.28	11.28	1.01	10.89	10.89	1.11	10.51	10.51	1.22	10.12	10.12	1.32
31.3	16		9.70	9.70	0.55	9.70	9.70	0.56	11.84	11.84	1.01	11.40	11.40	1.12	11.03	11.03	1.22	10.58	10.58	1.32

Symbols
TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
3. For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
4. CPI is a percentage value compared to the rated value which is 1.00.
5. The error rate for this value is less than 5% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	2,15	2,45	2,49	2,49	2,49

Twin

	FCQHG71Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D X 2
Cooling	2,14	2,35	2,94	2,34	2,64	2,83

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3
Cooling	2,33	2,98	2,70	2,54	2,96

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	2,35	3,03	2,75	2,58	3,05

3D098207A

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG125L9V1
RZQG125L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																																						
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	7.49	6.72	0.33	7.49	6.72	0.34	7.49	6.72	0.35	7.49	6.72	0.36	7.49	6.72	0.37	7.49	6.72	0.38	7.49	6.72	0.38	7.49	6.72	0.38	10.25	8.55	0.98	9.71	8.21	1.08	9.17	7.86	1.18	8.69	7.55	1.27
41.8	11	18	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	9.60	0.98	9.71	9.28	1.08	9.17	8.94	1.18	8.69	8.60	1.27
57	13		9.34	7.60	0.42	9.34	7.60	0.43	9.34	7.60	0.44	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	11.91	9.22	0.99	11.41	8.92	1.09	10.91	8.61	1.19	10.37	8.28	1.28
31.4	11	20	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
44.9	13		9.34	8.65	0.42	9.34	8.65	0.43	9.34	8.65	0.44	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	11.91	10.27	0.99	11.41	9.96	1.09	10.91	9.64	1.19	10.37	9.31	1.28
52	14		10.27	8.56	0.46	10.27	8.56	0.47	10.27	8.56	0.49	10.27	8.56	0.50	10.27	8.56	0.49	10.27	8.56	0.49	10.27	8.56	0.48	10.27	8.56	0.48	12.88	10.16	0.99	12.54	10.00	1.09	12.21	9.83	1.19	11.87	9.55	1.29
22.9	11	22	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
34.8	13		9.34	9.34	0.42	9.34	9.34	0.43	9.34	9.34	0.44	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	11.91	11.91	0.99	11.41	11.41	1.09	10.91	10.91	1.19	10.37	10.37	1.28
47.6	15		11.20	9.34	0.51	11.20	9.34	0.52	11.20	9.34	0.53	11.20	9.34	0.55	11.20	9.34	0.54	11.20	9.34	0.52	11.20	9.34	0.51	11.20	9.34	0.51	13.83	11.06	0.99	13.36	10.78	1.09	12.88	10.49	1.20	12.41	10.20	1.29
54.3	16		12.12	9.00	0.55	12.12	9.00	0.57	12.12	9.00	0.58	12.12	9.00	0.59	12.12	9.00	0.58	12.12	9.00	0.56	12.12	9.00	0.54	12.12	9.00	0.55	14.51	10.10	1.00	13.98	9.89	1.10	13.52	9.67	1.20	12.98	9.35	1.30
21.2	12	24	8.42	8.42	0.37	8.42	8.42	0.38	8.42	8.42	0.39	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	11.08	11.08	0.98	10.56	10.56	1.08	10.04	10.04	1.19	9.53	9.53	1.27
32.1	14		10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
43.8	16		12.12	10.35	0.55	12.12	10.35	0.57	12.12	10.35	0.58	12.12	10.35	0.59	12.12	10.35	0.58	12.12	10.35	0.56	12.12	10.35	0.54	12.12	10.35	0.55	14.51	11.71	1.00	13.98	11.44	1.10	13.52	11.21	1.20	12.98	10.90	1.30
50	17		12.47	9.38	0.57	12.47	9.38	0.58	12.47	9.38	0.59	12.47	9.38	0.60	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	15.20	11.36	1.00	14.54	11.02	1.10	13.89	10.66	1.20	13.24	10.25	1.31
21.5	14	27	10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
26.3	15		11.20	11.20	0.51	11.20	11.20	0.52	11.20	11.20	0.53	11.20	11.20	0.55	11.20	11.20	0.54	11.20	11.20	0.52	11.20	11.20	0.51	11.20	11.20	0.51	13.83	13.83	0.99	13.36	13.36	1.09	12.88	12.88	1.20	12.41	12.41	1.29
31.3	16		12.12	12.12	0.55	12.12	12.12	0.57	12.12	12.12	0.58	12.12	12.12	0.59	12.12	12.12	0.58	12.12	12.12	0.56	12.12	12.12	0.54	12.12	12.12	0.55	14.51	14.51	1.00	13.98	13.98	1.10	13.52	13.52	1.20	12.98	12.98	1.30

Symbols
TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
3. For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
4. CPI is a percentage value compared to the rated value which is 1.00.
5. The error rate for this value is less than 5% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	3,00	3,22	3,74	3,58	3,63

Twin

	FCQHG71Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D X 2
Cooling	2,97	3,17	3,67	3,44	3,69	4,10

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3
Cooling	3,17	3,66	3,23	3,45	3,97

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	3,23	3,64	3,01	3,94	3,74

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RZQG140L9V1
RZQG140L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																																						
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	8.24	7.27	0.32	8.24	7.27	0.33	8.24	7.27	0.34	8.24	7.27	0.35	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.38	10.95	8.87	0.96	10.37	8.51	1.06	9.79	8.15	1.16	9.28	7.83	1.25
41.8	11	18	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	9.96	0.96	10.37	9.62	1.06	9.79	9.27	1.16	9.28	8.92	1.25
57	13		10.28	8.22	0.41	10.28	8.22	0.42	10.28	8.22	0.43	10.28	8.22	0.45	10.28	8.22	0.45	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44	12.72	9.56	0.97	12.18	9.25	1.07	11.65	8.93	1.17	11.07	8.58	1.26
31.4	11	20	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
44.9	13		10.28	9.35	0.41	10.28	9.35	0.42	10.28	9.35	0.43	10.28	9.35	0.45	10.28	9.35	0.45	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44	12.72	10.64	0.97	12.18	10.33	1.07	11.65	10.00	1.17	11.07	9.65	1.26
52	14		11.30	9.26	0.45	11.30	9.26	0.47	11.30	9.26	0.48	11.30	9.26	0.49	11.30	9.26	0.49	11.30	9.26	0.48	11.30	9.26	0.47	11.30	9.26	0.47	13.75	10.53	0.97	13.40	10.36	1.07	13.04	10.19	1.17	12.68	9.90	1.27
22.9	11	22	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
34.8	13		10.28	10.28	0.41	10.28	10.28	0.42	10.28	10.28	0.43	10.28	10.28	0.45	10.28	10.28	0.45	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44	12.72	12.72	0.97	12.18	12.18	1.07	11.65	11.65	1.17	11.07	11.07	1.26
47.6	15		12.32	10.10	0.50	12.32	10.10	0.51	12.32	10.10	0.52	12.32	10.10	0.54	12.32	10.10	0.53	12.32	10.10	0.51	12.32	10.10	0.50	12.32	10.10	0.50	14.77	11.47	0.98	14.26	11.18	1.08	13.76	10.88	1.18	13.25	10.57	1.27
54.3	16		13.33	9.73	0.54	13.33	9.73	0.56	13.33	9.73	0.57	13.33	9.73	0.58	13.33	9.73	0.57	13.33	9.73	0.55	13.33	9.73	0.53	13.33	9.73	0.54	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
21.2	12	24	9.26	9.26	0.37	9.26	9.26	0.38	9.26	9.26	0.39	9.26	9.26	0.40	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	11.83	11.83	0.97	11.28	11.28	1.07	10.72	10.72	1.17	10.17	10.17	1.25
32.1	14		11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
43.8	16		13.33	11.20	0.54	13.33	11.20	0.56	13.33	11.20	0.57	13.33	11.20	0.58	13.33	11.20	0.57	13.33	11.20	0.55	13.33	11.20	0.53	13.33	11.20	0.54	15.50	12.14	0.98	14.93	11.86	1.08	14.44	11.62	1.18	13.86	11.30	1.28
50	17		13.72	10.15	0.56	13.72	10.15	0.57	13.72	10.15	0.58	13.72	10.15	0.59	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	16.23	11.78	0.98	15.53	11.43	1.08	14.83	11.06	1.18	14.14	10.63	1.29
21.5	14	27	11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
26.3	15		12.32	12.32	0.50	12.32	12.32	0.51	12.32	12.32	0.52	12.32	12.32	0.54	12.32	12.32	0.53	12.32	12.32	0.51	12.32	12.32	0.50	12.32	12.32	0.50	14.77	14.77	0.98	14.26	14.26	1.08	13.76	13.76	1.18	13.25	13.25	1.27
31.3	16		13.33	13.33	0.54	13.33	13.33	0.56	13.33	13.33	0.57	13.33	13.33	0.58	13.33	13.33	0.57	13.33	13.33	0.55	13.33	13.33	0.53	13.33	13.33	0.54	15.50	15.50	0.98	14.93	14.93	1.08	14.44	14.44	1.18	13.86	13.86	1.28

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
3. For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
4. CPI is a percentage value compared to the rated value which is 1.00.
5. The error rate for this value is less than 5% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

Symbols
TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	4,00	4,17	4,17	4,05	4,00

Twin

	FCQHG71Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D X 2
Cooling	3,94	4,11	3,59	3,35	3,81	3,75

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3
Cooling	4,12	4,25	4,15	4,26	3,75

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	4,18	4,23	3,83	5,38	3,75

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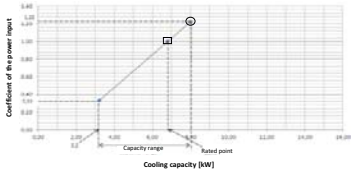
6 Capacity tables

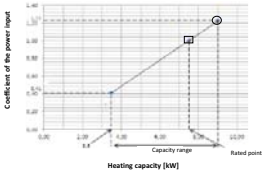
6 - 2 Cooling/Heating Capacity Tables

RZQG71L9V1
RZQG71L8Y1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	8,03	5,45	1,00	7,76	5,32	1,11	7,48	5,20	1,21	7,21	5,06	1,32
18,0	25	8,40	5,45	1,00	8,11	5,32	1,11	7,83	5,19	1,22	7,54	5,05	1,33
19,0	27	8,59	5,44	1,01	8,30	5,32	1,12	**8,00**	**5,18**	**1,22**	7,70	5,05	1,33
19,5	27	8,68	5,43	1,01	8,39	5,31	1,12	8,09	5,17	1,22	7,79	5,05	1,33
22,0	30	9,15	5,38	1,01	8,84	5,25	1,12	8,52	5,13	1,23	8,21	4,99	1,34
24,0	32	9,53	5,31	1,03	9,20	5,19	1,13	8,87	5,06	1,25	8,54	4,92	1,35

Heating

Indoor	−15,0		−10,0		−6,0		0,0		6,0		10,0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	6,44	0,93	7,09	0,99	7,55	1,02	7,79	1,06	9,00	1,12	9,71	1,19
18	6,43	0,98	7,08	1,03	7,54	1,07	7,78	1,10	9,00	1,17	9,71	1,24
20	6,42	1,01	7,07	1,07	7,53	1,12	7,77	1,14	**9,00**	**1,22**	9,71	1,28
21	6,42	1,03	7,07	1,09	7,53	1,13	7,77	1,16	9,00	1,24	9,71	1,31
22	6,42	1,05	7,06	1,11	7,52	1,15	7,76	1,19	9,00	1,27	9,71	1,33
24	6,41	1,09	7,05	1,15	7,51	1,20	7,75	1,23	9,00	1,32	9,67	1,38

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ◯ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. SHC is based on indoor units EWB & EDB.
   SHC for other dry-bulb temperatures = SHC + SHC*
   SHC* = SHC correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
5. CPI is a percentage value compared to the rated value which is 1.00.
6. The error rate for this value is less than 5% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CB	FUQ71C	FBQ71D
AFR	21.2	21.5	18.0	20.5	18.0	18.0	20.5	23.0	18.0
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)

Twin

	FCQG35F X 2	FBQ35C X 2	FHQ35CB X 2	FFQ35C X 2	FDXS35F X 2	FBQ35D X 2	FNQ35A X 2
AFR	12.5 x 2	16 x2	14 x 2	10 x 2	8,7 x 2	15 x 2	8,7 x 2
(BF)	(0.4 x 2)	(0.15 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Pair

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CB	FUQ71C	FBQ71D
Cooling	1,66	2,01	1,94	1,78	2,00	2,02	1,78	1,67	1,89
Heating	1,56	1,89	2,05	1,82	2,03	2,06	1,82	1,68	1,87

Twin

	FCQG35F X 2	FBQ35C X 2	FHQ35CB X 2	FFQ35C X 2	FDXS35F x 2	FBQ35D X 2	FNQ35A X 2
Cooling	2,04	1,98	2,34	2,02	2,23	2,01	2,23
Heating	1,92	2,16	2,70	1,88	2,55	2,08	2,55

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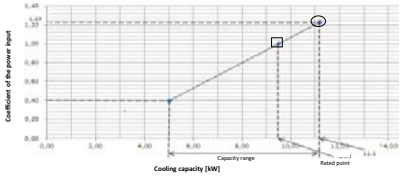
6 Capacity tables

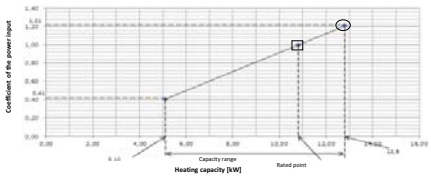
6 - 2 Cooling/Heating Capacity Tables

RZQG100L9V1
RZQG100L8Y1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	11,20	7,61	1,01	10,85	7,44	1,11	10,50	7,29	1,22	10,11	7,09	1,32
18,0	25	11,80	7,59	1,01	11,37	7,49	1,12	11,00	7,27	1,23	10,55	7,09	1,33
19,0	27	12,00	7,57	1,02	11,62	7,44	1,12	**11,20**	**7,26**	**1,23**	10,80	7,04	1,33
19,5	27	12,15	7,59	1,02	11,74	7,37	1,13	11,43	7,34	1,23	10,91	7,04	1,34
22,0	30	12,80	7,52	1,02	12,37	7,36	1,13	11,90	7,16	1,24	11,52	7,03	1,35
24,0	32	13,30	7,42	1,03	12,88	7,27	1,14	12,40	7,06	1,25	11,97	6,91	1,36

Heating

Indoor	Outdoor temperature [°C WB]											
	-15,0		-10,0		-5,0		0,0		6,0		10,0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	8,58	0,92	9,45	0,98	10,1	1,02	10,4	1,05	12,0	1,11	13,0	1,18
18	8,57	0,97	9,44	1,02	10,0	1,06	10,3	1,09	12,0	1,16	13,0	1,23
20	8,56	1,00	9,43	1,06	10,0	1,11	10,3	1,13	**12,0**	**1,21**	13,0	1,27
23	8,56	1,02	9,42	1,08	10,0	1,12	10,3	1,15	12,0	1,23	13,0	1,30
22	8,56	1,04	9,42	1,10	10,0	1,14	10,3	1,18	12,0	1,26	13,0	1,32
24	8,54	1,08	9,41	1,14	10,0	1,19	10,3	1,22	12,0	1,31	13,0	1,37

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ○ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. SHC is based on indoor units EWB & EDB.
   SHC for other dry-bulb temperatures = SHC + SHC*
   SHC* = SHC correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
5. CPI is a percentage value compared to the rated value which is 1.00.
6. The error rate for this value is less than 5% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CB	FUQ100C	FBQ100D
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	20.0 (0.09)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	31.0 (0.20)	29.0 (0.03)

Twin

	FCQG50F X 2	FBQ50C X 2	FHQ50CB X 2	FFQ50C X 2	FDXS50F9 X 2	FBQ50D X 2	FNQ50A X 2
AFR (BF)	12.6 x 2 (0.22 x 2)	16 x2 (0.16 x 2)	15 x 2 (0.18 x 2)	12 x 2 (0.16 x 2)	16 x 2 (0.11 x 2)	15 x 3 (0.13 x 2)	16 x 2 (0.11 x 2)

Triple

	FCQG35F X 3	FBQ35C X 3	FHQ35CB X 3	FFQ35C X 3	FDXS35F X 3	FBQ35D x 3	FNQ35A X 3
AFR (BF)	12.5 x 3 (0.4 x 3)	16 x3 (0.15 x 3)	14 x 3 (0.17 x 3)	10 x 3 (0.25 x 3)	8.7 x 3 (0.17 x 3)	15 x 3 (0.08 x 3)	8.7 x 3 (0.17 x 3)

Pair

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CB	FUQ100C	FBQ100D
Cooling	2,15	2,45	2,44	2,49	2,63	2,49	2,30	2,33	2,49
Heating	2,16	2,60	2,57	2,60	3,00	2,61	2,60	2,62	2,45

Twin

	FCQG50F X 2	FBQ50C X 2	FHQ50CB X 2	FFQ50C X 2	FDXS50F9 X 2	FBQ50D X 2	FNQ50A X 2
Cooling	2,32	2,51	2,93	2,65	2,51	2,87	2,51
Heating	2,46	2,86	3,28	2,89	2,96	2,73	2,96

Triple

	FCQG35F X 3	FBQ35C X 3	FHQ35CB X 3	FFQ35C X 3	FDXS35F X 3	FBQ35D x 3	FNQ35A X 3
Cooling	2,38	2,51	2,91	2,45	2,81	2,68	2,81
Heating	2,51	2,86	3,20	2,59	3,68	2,70	3,68

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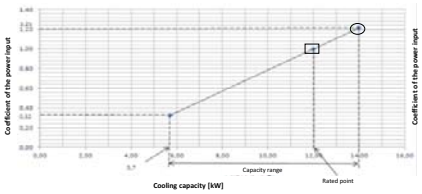
6 Capacity tables

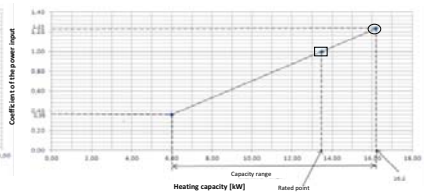
6 - 2 Cooling/Heating Capacity Tables

RZQG125L9V1
RZQG125L8Y1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	14,10	9,54	1,00	13,60	9,30	1,10	13,10	9,12	1,20	12,60	8,78	1,31
18,0	25	14,70	9,50	1,00	14,20	9,32	1,10	13,70	9,09	1,21	13,20	8,83	1,32
19,0	27	15,00	9,52	1,01	14,50	9,34	1,11	**14,00**	**9,06**	**1,21**	13,50	8,87	1,32
19,5	27	15,21	9,52	1,01	14,68	9,26	1,12	14,15	9,08	1,21	13,64	8,81	1,32
22,0	30	16,00	9,39	1,01	15,47	9,14	1,12	14,90	8,95	1,23	14,38	8,74	1,33
24,0	32	16,70	9,31	1,02	16,10	9,09	1,13	15,50	8,83	1,24	14,97	8,63	1,34

Heating

Indoor	Outdoor temperature [°C WB]											
	−15,0		−10,0		−5,0		0,0		6,0		10,0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	11,0	0,94	12,1	1,00	12,9	1,03	13,2	1,06	16,2	1,13	17,5	1,20
18	11,0	0,98	12,1	1,03	12,9	1,08	13,2	1,11	16,2	1,18	17,5	1,25
20	11,0	1,02	12,0	1,08	12,9	1,13	13,2	1,15	**16,2**	**1,23**	17,5	1,30
21	11,0	1,04	12,0	1,10	12,8	1,14	13,2	1,17	16,2	1,25	17,5	1,32
22	11,0	1,06	12,0	1,12	12,8	1,16	13,2	1,20	16,2	1,28	17,4	1,34
24	11,0	1,10	12,0	1,16	12,8	1,21	13,2	1,24	16,2	1,33	17,4	1,39

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ◯ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. SHC is based on indoor units EWB & EDB.
   SHC for other dry-bulb temperatures = SHC + SHC*
   SHC* = SHC correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
5. CPI is a percentage value compared to the rated value which is 1.00.
6. The error rate for this value is less than 5% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CB	FUQ125C	FBQ125D
AFR	33.5	33.0	39.0	31.0	39.0	28.0	31.0	32.5	34.0
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.16)	(0.16)	(0.14)	(0.19)	(0.06)

Twin

	FCQG60F X 2	FBQ60C X 2	FHQ60CB X 2	FFQ60C X 2	FDXS60F X 2	FBQ60D X 2	FNQ60A X 2
AFR	13.6 x 2	18 x 2	19.5 x 2	14.5 x 2	16 x 2	18 x 2	16 x 2
(BF)	(0.2 x 2)	(0.15 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.18 x 2)	(0.12 x 2)

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CB X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
AFR	12.6 x 3	16 x3	15 x 3	12 x 3	16 x 3	15 x 3	16 x 3
(BF)	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CB X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
AFR	12.5 x 4	16 x4	14 x 4	10 x 4	8.7 x 4	15 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.15 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CB	FUQ125C	FBQ125D
Cooling	3,05	3,23	3,15	3,58	3,20	3,74	3,41	3,44	3,63
Heating	3,07	3,72	3,53	3,48	3,53	3,65	3,48	3,86	3,46

Twin

	FCQG60F X 2	FBQ60C X 2	FHQ60CB X 2	FFQ60C X 2	FDXS60F X 2	FBQ60D X 2	FNQ60A X 2
Cooling	3,14	3,28	3,67	3,61	3,75	4,10	3,75
Heating	3,64	3,74	4,11	4,10	4,20	3,85	4,20

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CB X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
Cooling	3,17	3,28	3,66	3,23	3,45	3,97	3,45
Heating	3,66	3,74	4,10	3,55	3,61	3,81	3,61

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CB X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
Cooling	3,23	3,28	3,64	3,01	3,94	3,74	3,94
Heating	3,72	3,74	4,00	3,30	4,45	3,78	4,45

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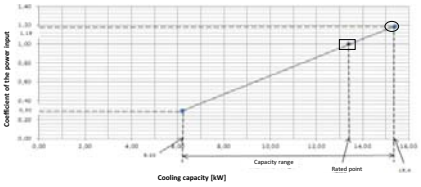
6 Capacity tables

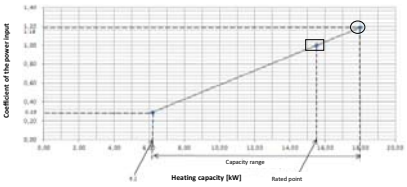
6 - 2 Cooling/Heating Capacity Tables

RZQG140L9V1
RZQG140L8Y1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	15,50	10,47	0,98	14,93	10,25	1,08	14,44	10,03	1,18	13,86	9,69	1,28
18,0	25	16,17	10,55	0,98	15,62	10,21	1,09	15,11	10,01	1,19	14,52	9,71	1,30
19,0	27	16,56	10,43	0,99	15,96	10,18	1,09	**15,40**	**9,98**	**1,19**	14,83	9,76	1,30
19,5	27	16,74	10,49	0,99	16,14	10,16	1,10	15,57	10,00	1,19	14,98	9,66	1,30
22,0	30	17,61	10,37	0,99	17,01	10,16	1,10	16,36	9,83	1,21	15,76	9,60	1,31
24,0	32	18,38	10,20	1,00	17,72	10,00	1,11	17,04	9,67	1,22	16,43	9,47	1,32

Heating

Indoor	Outdoor temperature [°C WB]											
	−15.0		−10.0		−5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	**18.0**	**1.19**	19.4	1.25
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.35

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ◯ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. SHC is based on indoor units EWB & EDB.
   SHC for other dry-bulb temperatures = SHC + SHC*
   SHC* = SHC correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
5. CPI is a percentage value compared to the rated value which is 1.00.
6. The error rate for this value is less than 5% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CB	FBQ140D
AFR (BF)	33.5 (0.15)	33.0 (0.23)	39:C/41:H (0.14)	34.0 (0.17)	30.0 (0.18)	34.0 (0.17)	34.0 (0.06)

Twin

	FCQHG71F X 2	FCQG71F X 2	FBQ71C X 2	FHQG71C X 2	FAQ71C X 2	FHQ71CB X 2	FUQ71C X 2	FBQ71D X 2
AFR (BF)	21.2 x 2 (0.2 x2)	21.5 x 2 (0.14 x 2)	18.0 x 2 (0.08 x 2)	20.5 x 2 (0.13 x 2)	18.0 x 2 (0.16 x 2)	20.5 x 2 (0.13 x 2)	23.0 x 2 (0.24 x2)	18.0 x 2 (0.13 x2)

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CB X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
AFR (BF)	12.6 x 3 (0.22 x 3)	16 x3 (0.16 x 3)	15 x 3 (0.18 x 3)	12 x 3 (0.16 x 3)	16 x 3 (0.11 x 3)	15 x 3 (0.13 x 3)	16 x 3 (0.11 x 3)

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CB X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
AFR (BF)	12.5 x 4 (0.4 x 4)	16 x4 (0.15 x 4)	14 x 4 (0.20 x 4)	10 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15 x 4 (0.08 x 4)	8.7 x 4 (0.17 x 4)

Pair

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CB	FBQ140D
Cooling	4,00	4,17	4,02	4,05	4,17	4,05	4,00
Heating	3,77	4,30	4,30	4,27	4,30	4,27	4,31

Twin

	FCQHG71F X 2	FCQG71F X 2	FBQ71C X 2	FHQG71C X 2	FAQ71C X 2	FHQ71CB X 2	FUQ71C X 2	FBQ71D X 2
Cooling	3,94	4,11	3,75	3,59	3,81	3,59	3,35	3,75
Heating	3,71	4,24	4,70	4,47	4,68	4,47	4,36	4,70

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CB X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
Cooling	4,12	3,75	4,25	4,15	4,26	3,75	4,26
Heating	4,24	4,70	5,43	4,15	4,37	4,70	4,37

Double twin

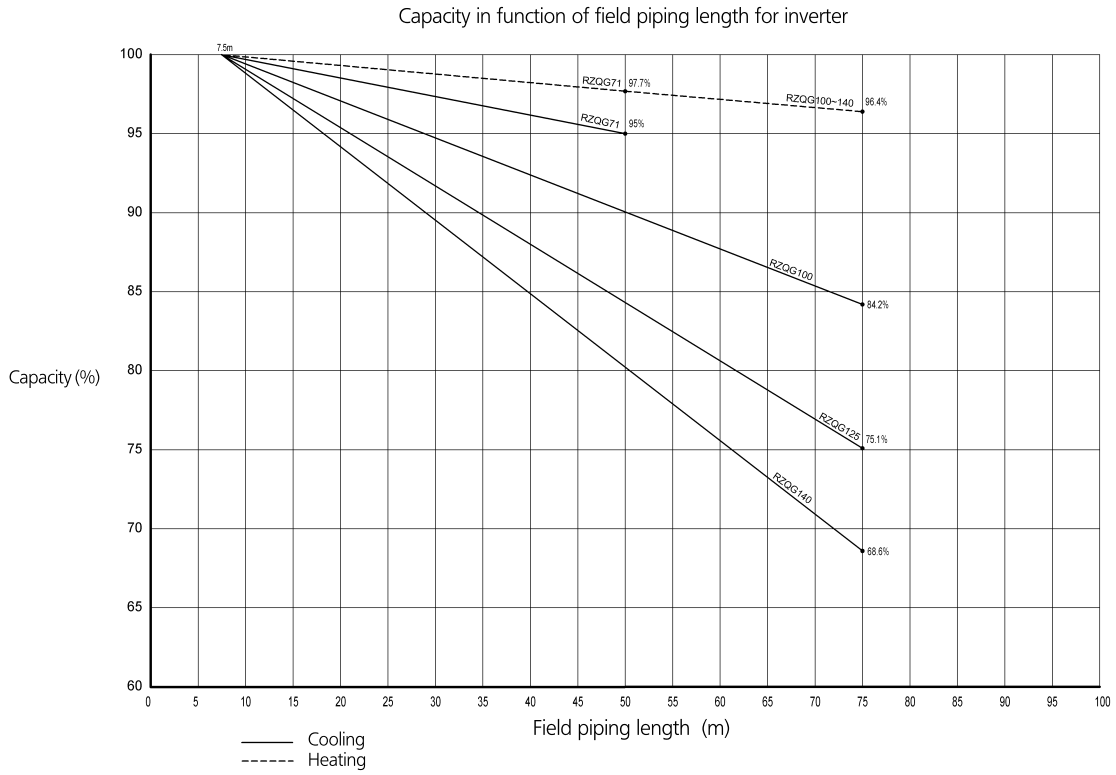
	FCQG35F X 4	FBQ35C X 4	FHQ35CB X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
Cooling	4,18	3,75	4,23	3,83	5,38	3,75	5,38
Heating	4,30	4,70	5,33	3,81	5,85	4,70	5,85

3D076751G

6 Capacity tables

6 - 3 Capacity Correction Factor

RZQG-L(8)Y1

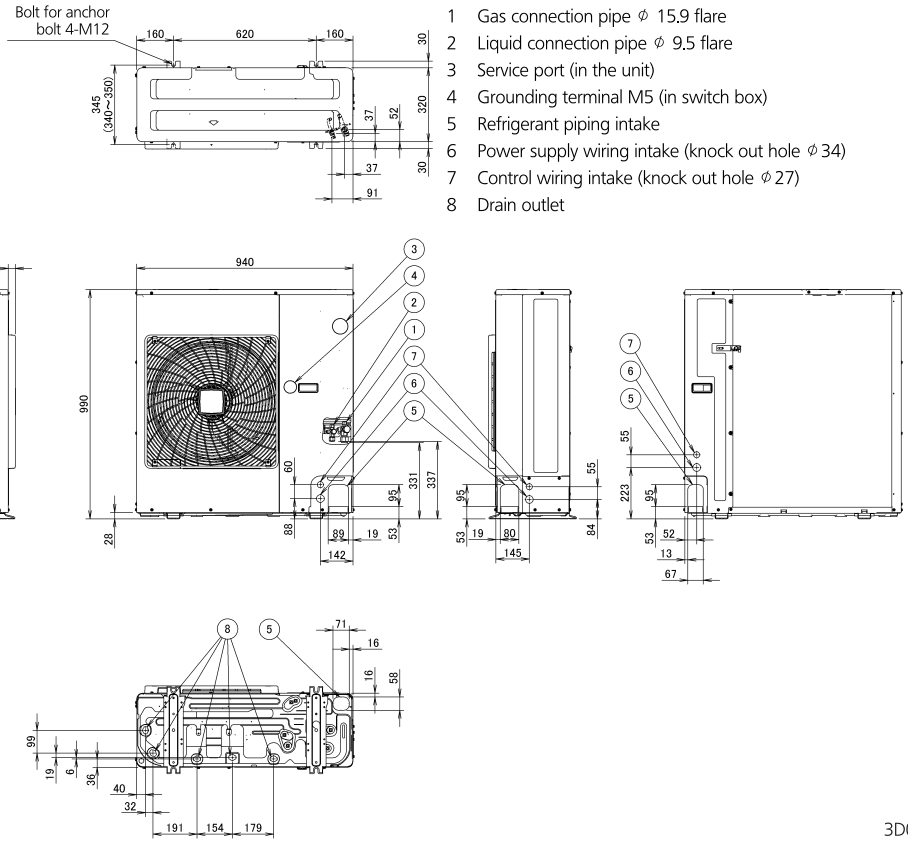


3D076249

7 Dimensional drawings

7 - 1 Dimensional Drawings

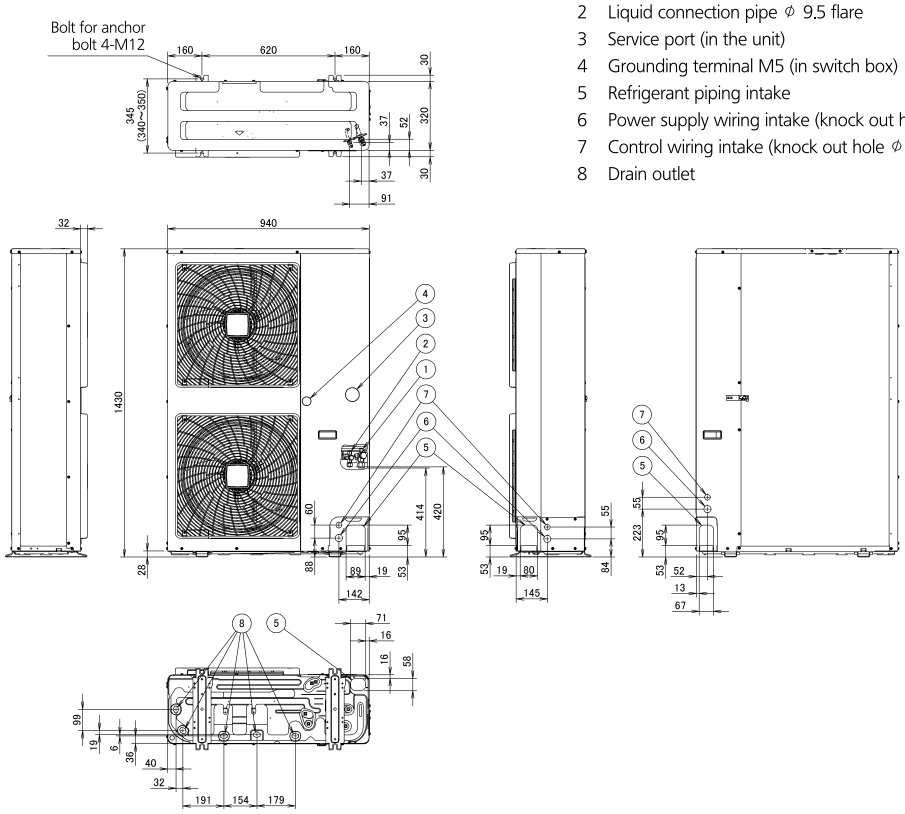
RZQG71L8Y1



1 Gas connection pipe Φ 15.9 flare
2 Liquid connection pipe Φ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole Φ34)
7 Control wiring intake (knock out hole Φ27)
8 Drain outlet

3D076345

RZQG100-140L(8)Y1



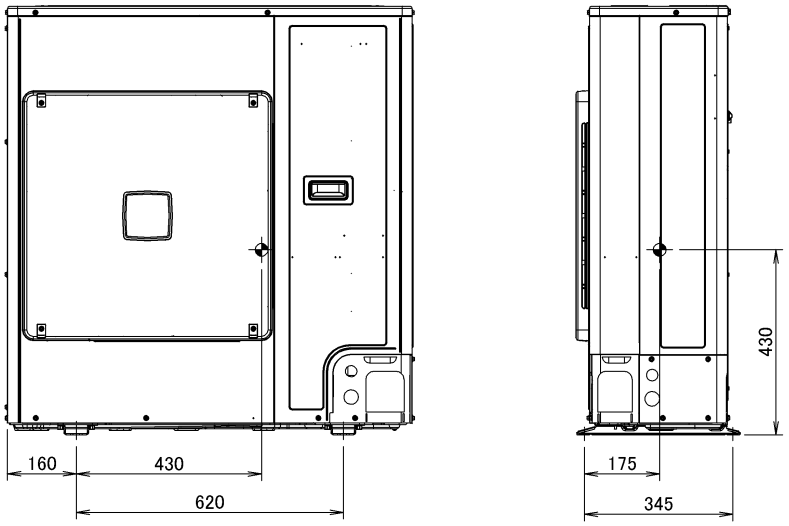
1 Gas connection pipe Φ 15.9 flare
2 Liquid connection pipe Φ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole Φ34)
7 Control wiring intake (knock out hole Φ27)
8 Drain outlet

3D076346

8 Centre of gravity

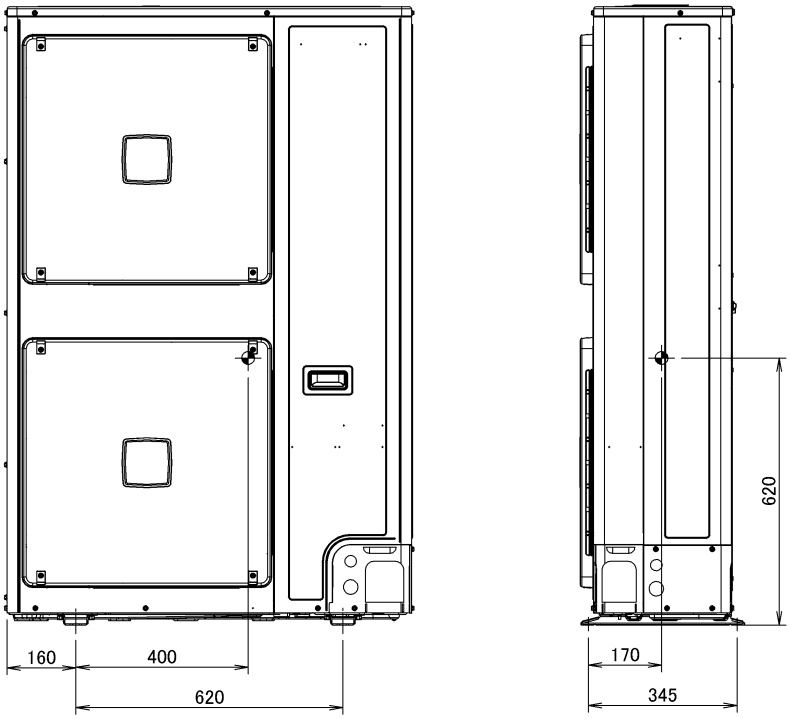
8 - 1 Centre of Gravity

RZQG71L8Y1



4D077807

RZQG100-140L(8)Y1

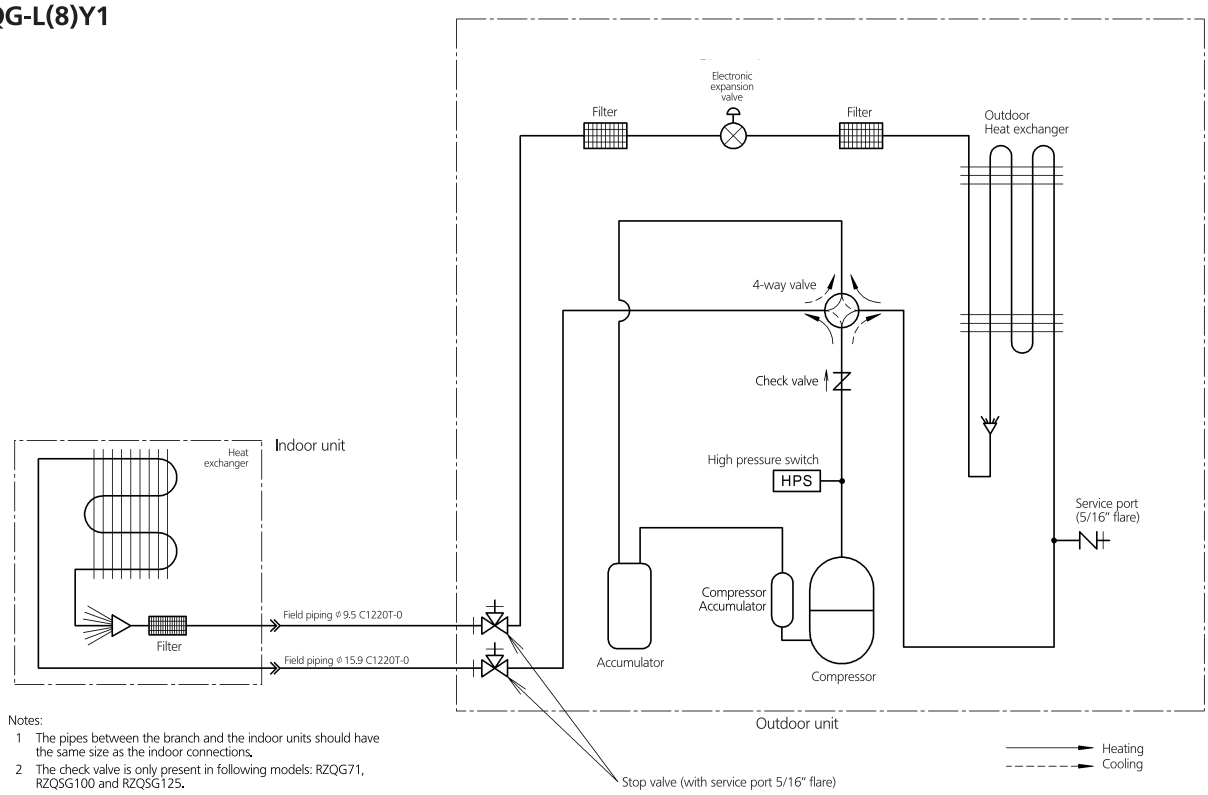


4D077808

9 Piping diagrams

9 - 1 Piping Diagrams

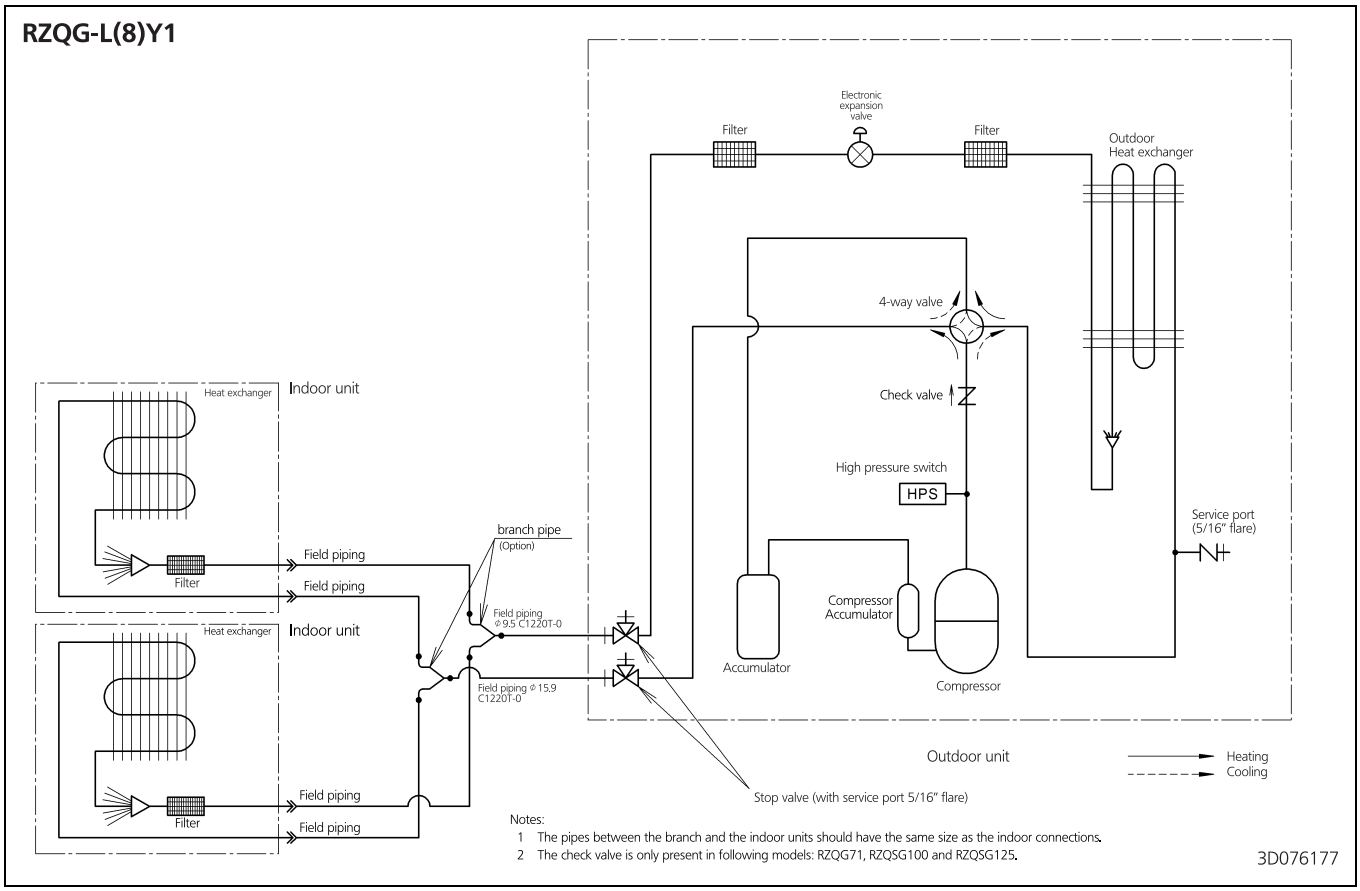
RZQG-L(8)Y1



Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQG71, RZQSG100 and RZQSG125.

9 Piping diagrams

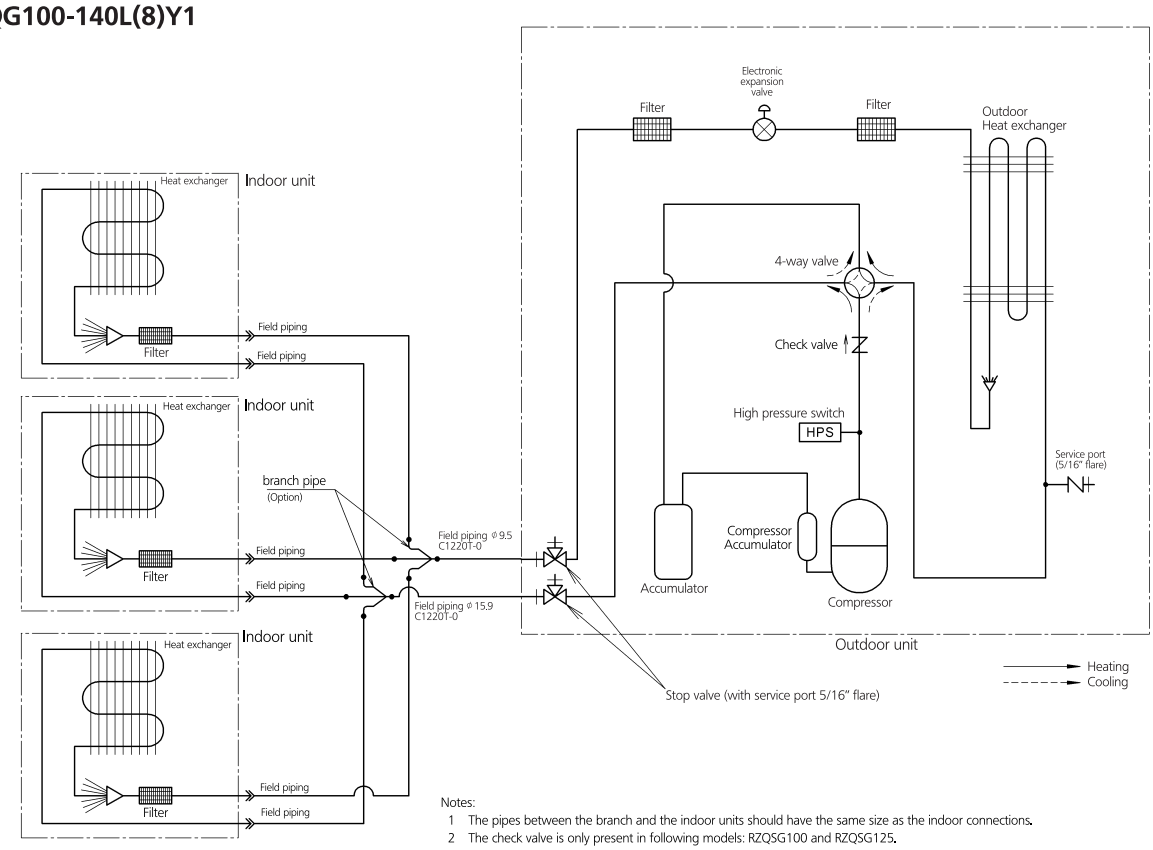
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZQG100-140L(8)Y1

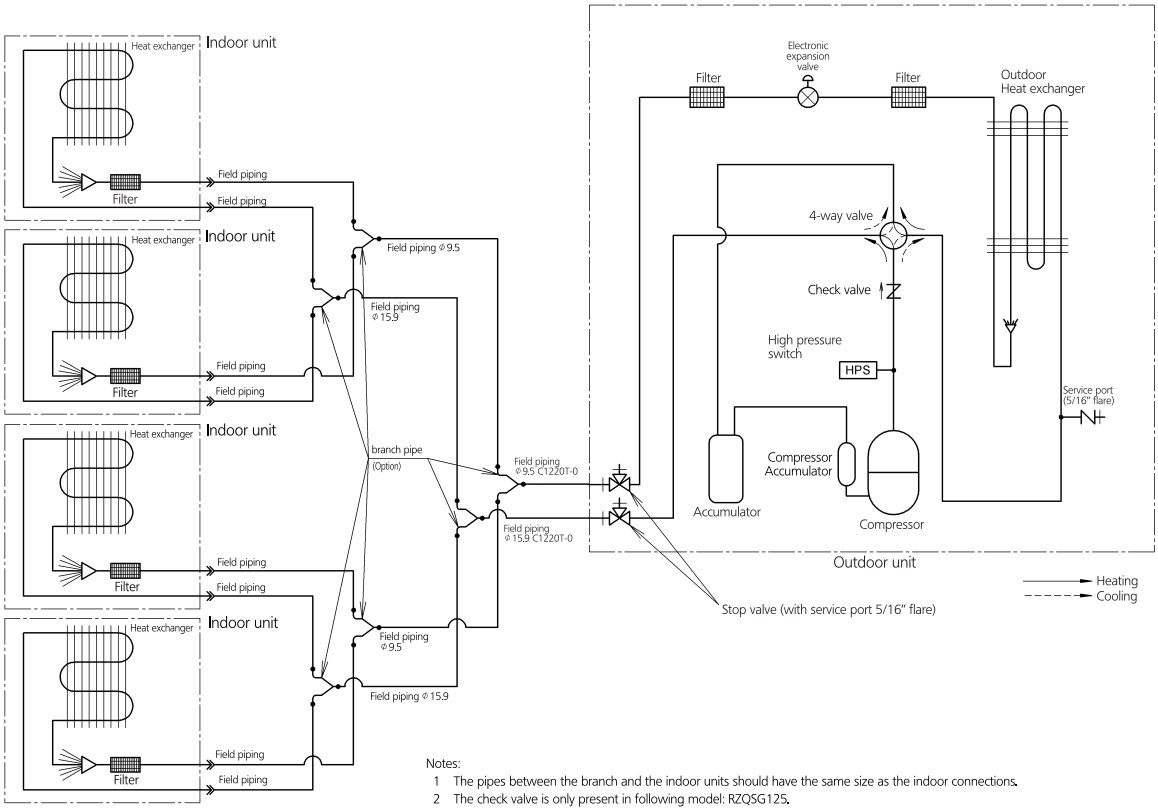


Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQSG100 and RZQSG125.

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZQG125-140L(8)Y1



Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following model: RZQSG125.

3D076179

10 Wiring diagrams

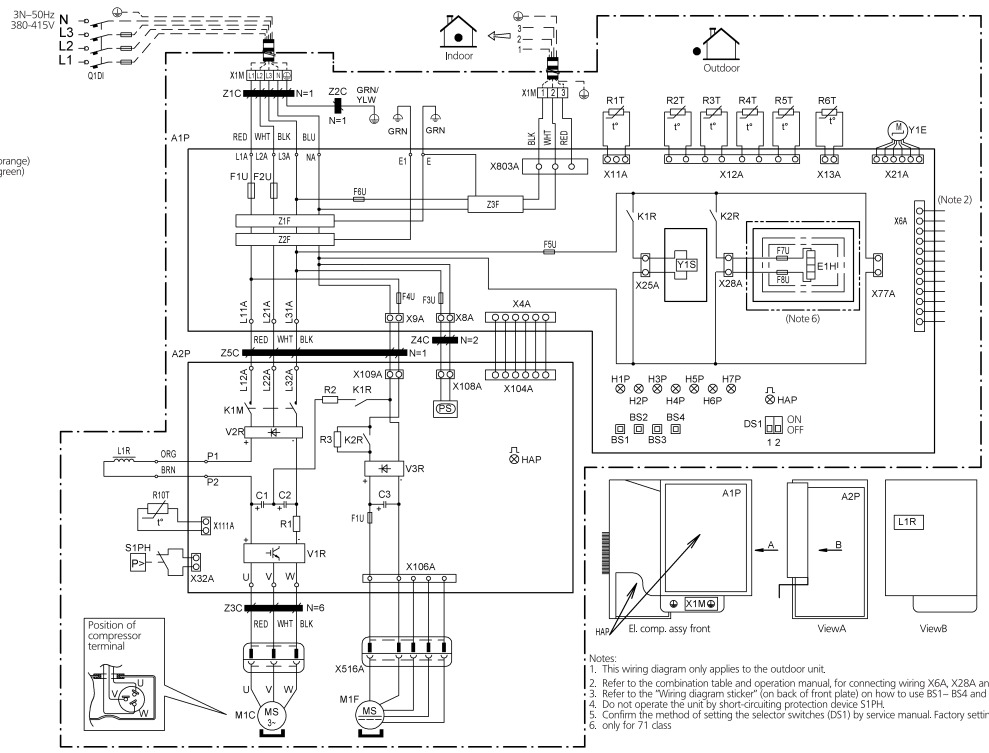
10 - 1 Wiring Diagrams - Three Phase

RZQG71L8Y1

A1P	: Printed circuit board
A2P	: Printed circuit board (Inverter)
BS1~BS2	: Push button switch
C1~C3	: Capacitor
DS1	: Dip switch
E1H	: Bottomplate heater (Option)
F1U	: Fuse (31.5A / 250V)
F2U	: Fuse (31.5A / 250V)
F3U~F6U	: Fuse (T 6.3A / 250V)
F7U,F8U	: Fuse (F 1.0A / 250V)
F1U (A2P)	: Fuse (T 5.0A / 250V)
H1P~H7P	: Light emitting diode (service monitor orange)
HAP(A1P,A2P)	: Light emitting diode (service monitor green)
K1M	: Magnetic contactor
K1R (A1P)	: Magnetic relay(Y1S)
K1R (A2P)	: Magnetic relay
K2R (A1P)	: Magnetic relay (E1H Option)
K2R (A2P)	: Magnetic relay
L1R	: Reactor
M1C	: Motor (compressor)
M1F	: Motor (fan) (upper)
M2F	: Motor (fan) (lower)
PS	: Switching power supply
Q1DI	: Earth leakage breaker (30mA)
R1~R3	: Resistor
R1T	: Thermistor (air)
R2T	: Thermistor (discharge)
R3T	: Thermistor (Suction)
R4T	: Thermistor (Heat exchanger)
R5T	: Thermistor (heat exchanger middle)
R6T	: Thermistor (liquid)
R10T	: Thermistor (fin)
S1PH	: Pressure switch (High)
V1R	: IGBT Power module
V2R, V3R	: Diode module
X6A	: Connector (Option)
X1M	: Terminal strip
Y1E	: Electronic expansion valve
Y1S	: Solenoid valve (4 way valve)
Z1C~Z5C	: Noise filter (ferrite core)
Z1F~Z3F	: Noise filter

L: Live
N: Neutral
: Field wiring
: Protective earth (screw)
: Noiseless earth
: Terminal
: Connection
: Terminal strip
: Connector
: Relay connector
: Option

BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow



Notes:
1. This wiring diagram only applies to the outdoor unit.
2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1~ BS4 and DS1 switch.
4. Do not operate the unit by short-circuiting protection device S1PH.
5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".
6. only for 71 class

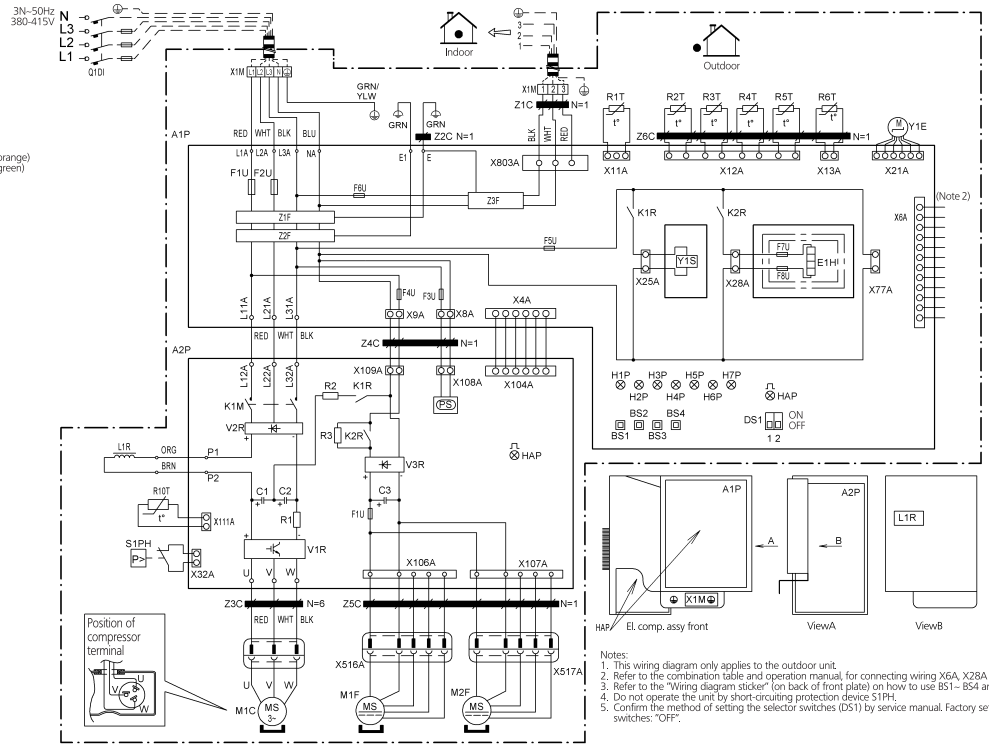
2D080114B

RZQG100-140L(8)Y1

A1P	: Printed circuit board
A2P	: Printed circuit board (Inverter)
BS1~BS2	: Push button switch
C1~C3	: Capacitor
DS1	: Dip switch
E1H	: Bottomplate heater (Option)
F1U	: Fuse (31.5A / 250V)
F2U	: Fuse (31.5A / 250V)
F3U~F6U	: Fuse (T 6.3A / 250V)
F7U,F8U	: Fuse (F 1.0A / 250V)
F1U (A2P)	: Fuse (F 5.0A / 250V)
H1P~H7P	: Light emitting diode (service monitor orange)
HAP(A1P,A2P)	: Light emitting diode (service monitor green)
K1M	: Magnetic contactor
K1R (A1P)	: Magnetic relay(Y1S)
K1R (A2P)	: Magnetic relay
K2R (A1P)	: Magnetic relay (E1H Option)
K2R (A2P)	: Magnetic relay
L1R	: Reactor
M1C	: Motor (compressor)
M1F	: Motor (fan) (upper)
M2F	: Motor (fan) (lower)
PS	: Switching power supply
Q1DI	: Earth leakage breaker (30mA)
R1~R3	: Resistor
R1T	: Thermistor (Air)
R2T	: Thermistor (discharge)
R3T	: Thermistor (Suction)
R4T	: Thermistor (Heat exchanger)
R5T	: Thermistor (heat exchanger middle)
R6T	: Thermistor (liquid)
R10T	: Thermistor (fin)
S1PH	: Pressure switch (High)
V1R	: IGBT Power module
V2R,V3R	: Diode module
X6A	: Connector (Option)
X1M	: Terminal strip
Y1E	: Electronic expansion valve
Y1S	: Solenoid valve (4 way valve)
Z1C~Z6C	: Noise filter (ferrite core)
Z1F~Z3F	: Noise filter

L: Live
N: Neutral
: Field wiring
: Protective earth (screw)
: Noiseless earth
: Terminal
: Connection
: Terminal strip
: Connector
: Relay connector
: Option

BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow



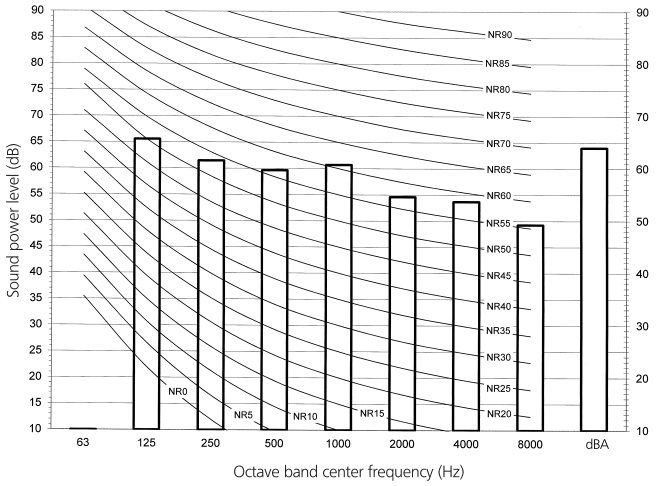
Notes:
1. This wiring diagram only applies to the outdoor unit.
2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1~ BS4 and DS1 switch.
4. Do not operate the unit by short-circuiting protection device S1PH.
5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".

2D077192A

11 Sound data

11 - 1 Sound Power Spectrum

RZQG71L8Y1

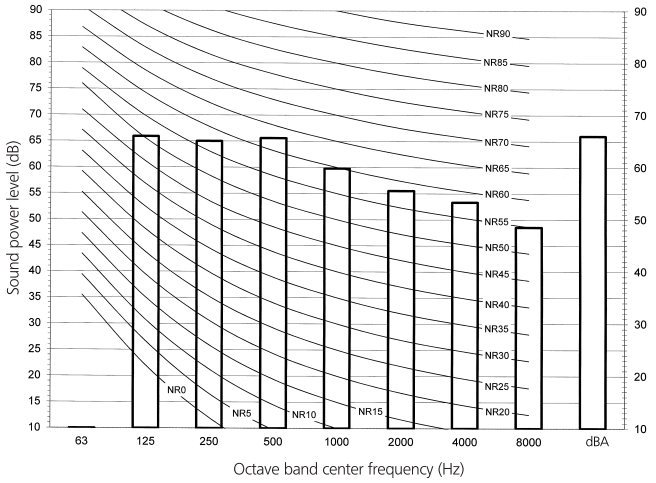


NOTES

1 dBA = A-weighted sound power level (A-scale according to IEC)
2 Reference acoustic intensity 0 dB = 10E-6µW/m^2
3 Measured according to ISO 3744

3D077779

RZQG100L8Y1



NOTES

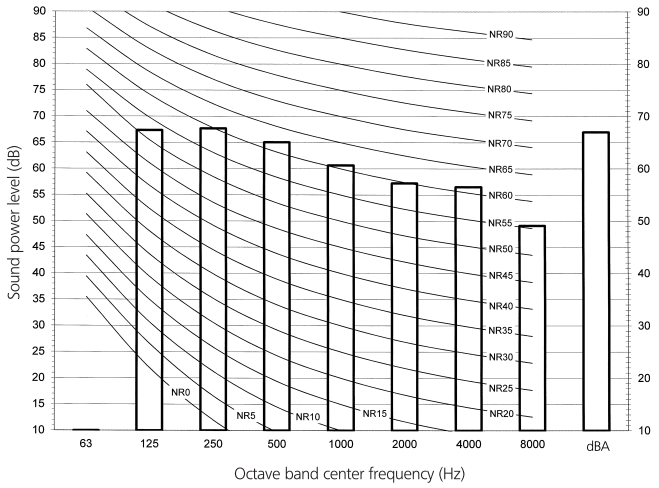
1 dBA = A-weighted sound power level (A-scale according to IEC)
2 Reference acoustic intensity 0 dB = 10E-6µW/m^2
3 Measured according to ISO 3744

3D077780

11 Sound data

11 - 1 Sound Power Spectrum

RZQG125L8Y1

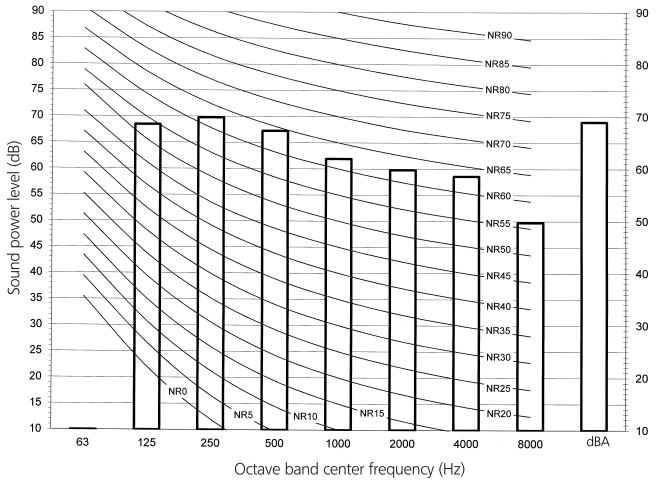


NOTES

1 dBA = A-weighted sound power level (A-scale according to IEC)
2 Reference acoustic intensity 0 dB = 10E-6µW/m^2
3 Measured according to ISO 3744

3D077781

RZQG140LY1



NOTES

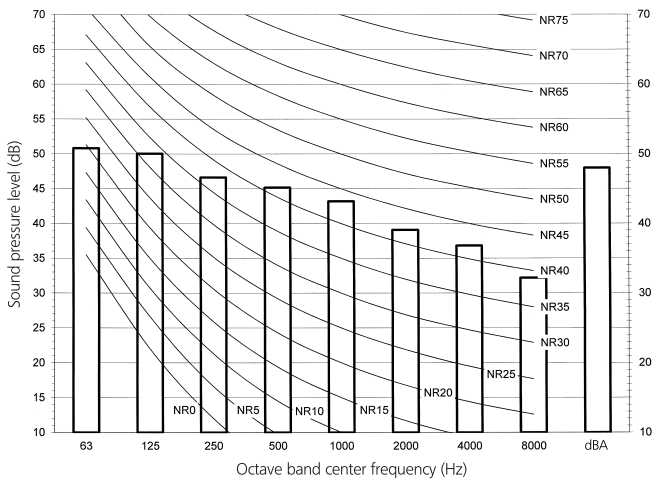
1 dBA = A-weighted sound power level (A-scale according to IEC)
2 Reference acoustic intensity 0 dB = 10E-6µW/m^2
3 Measured according to ISO 3744

3D077782

11 Sound data

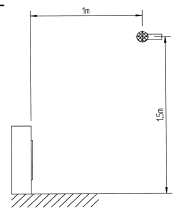
11 - 2 Sound Pressure Spectrum - Cooling

RZQG71L8Y1



NOTES

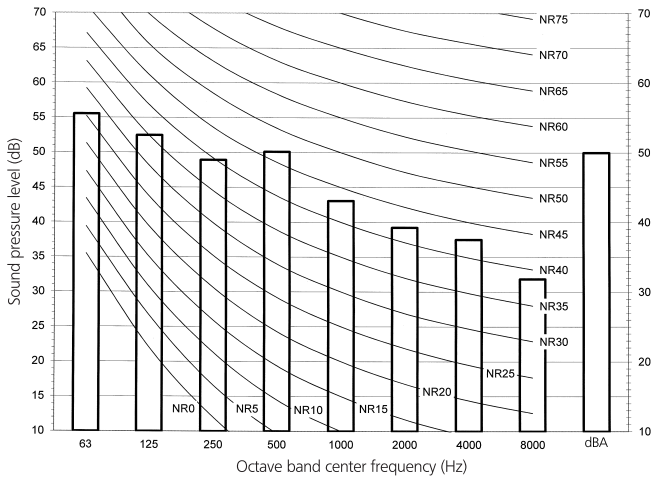
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20μPa.



Measuring location
(discharge side)

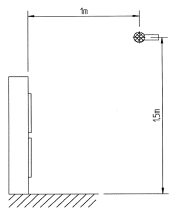
3D077793

RZQG100L8Y1



NOTES

1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20μPa.



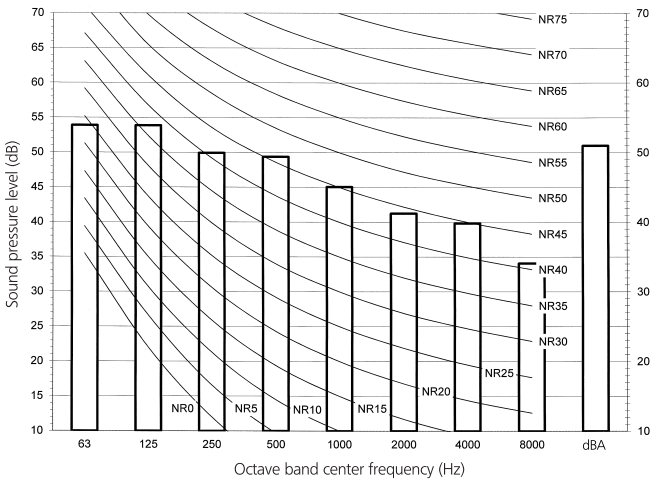
Measuring location
(discharge side)

3D077794

11 Sound data

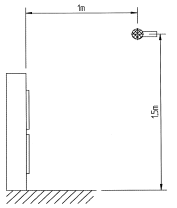
11 - 2 Sound Pressure Spectrum - Cooling

RZQG125L8Y1



NOTES

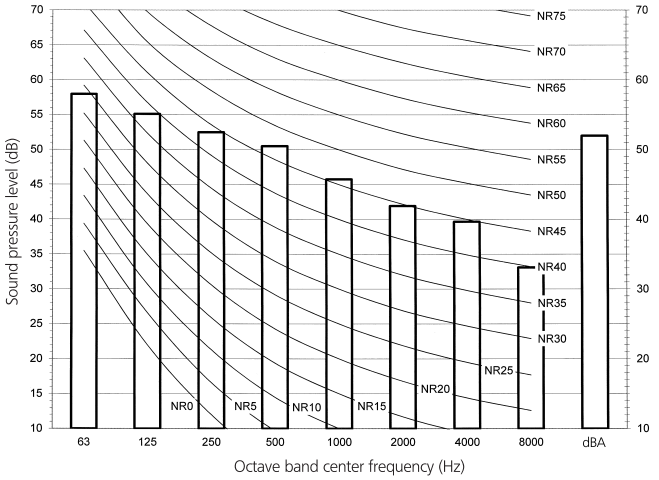
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location
(discharge side)

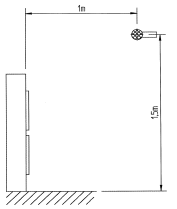
3D077795

RZQG140LY1



NOTES

1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



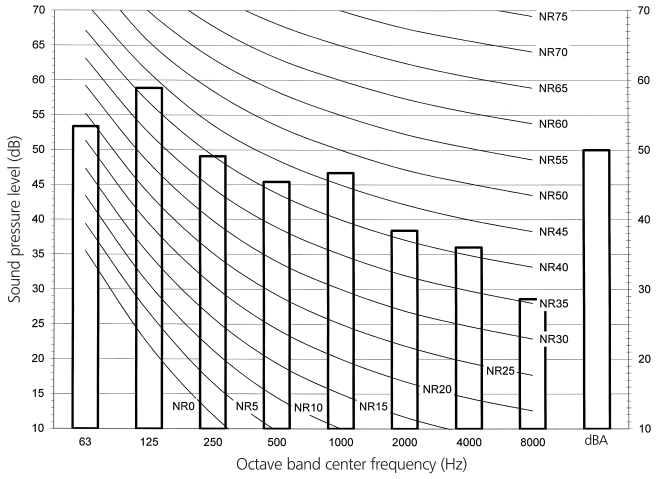
Measuring location
(discharge side)

3D077796

11 Sound data

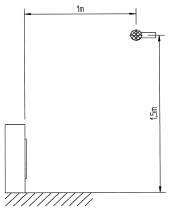
11 - 3 Sound Pressure Spectrum - Heating

RZQG71L8Y1



NOTES

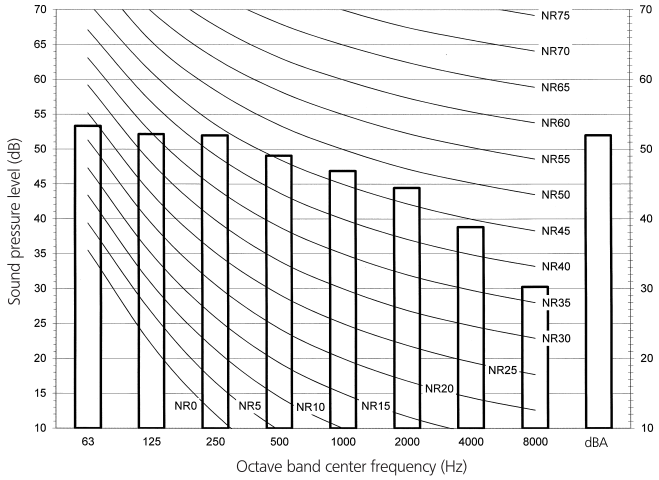
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location
(discharge side)

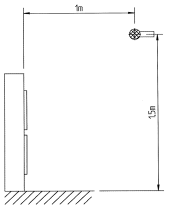
3D077800

RZQG100L8Y1



NOTES

1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



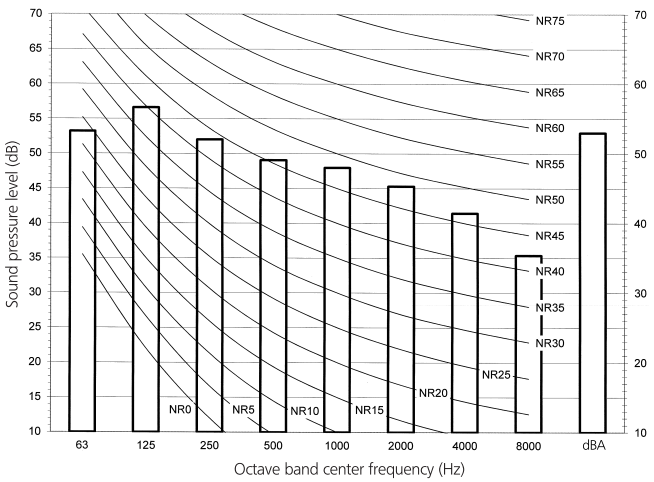
Measuring location
(discharge side)

3D077801

11 Sound data

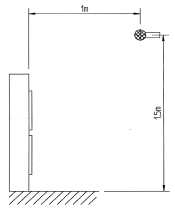
11 - 3 Sound Pressure Spectrum - Heating

RZQG125L8Y1



NOTES

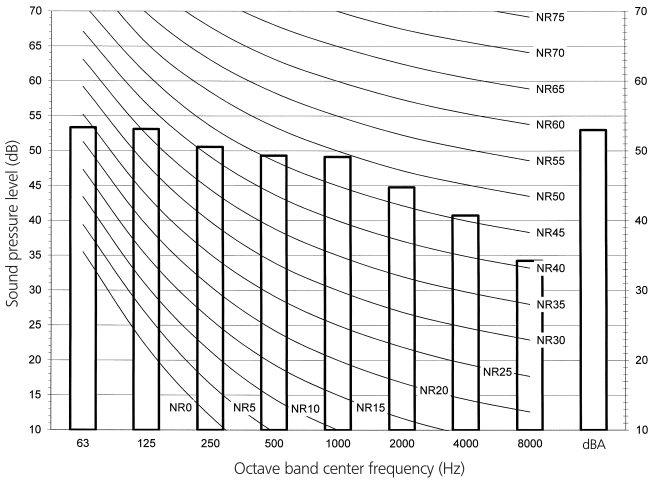
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20μPa.



Measuring location
(discharge side)

3D077802

RZQG140LY1



NOTES

1 Data is valid at free field condition.
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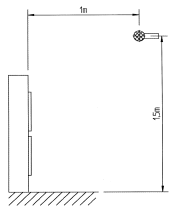
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20μPa.



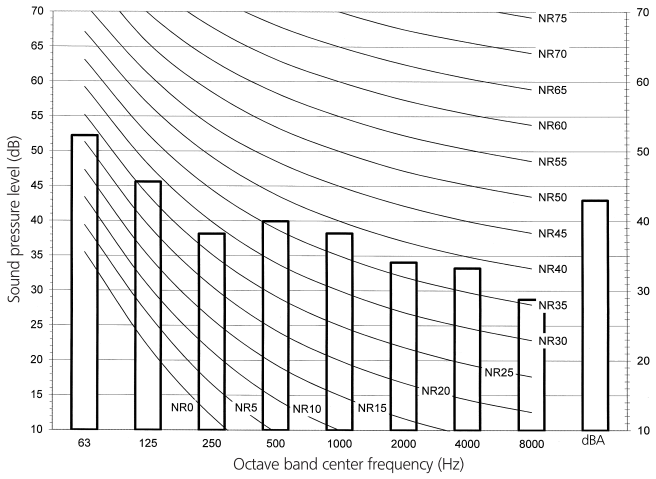
Measuring location
(discharge side)

3D077803

11 Sound data

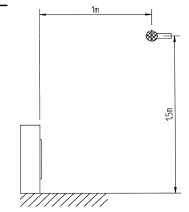
11 - 4 Sound Pressure Spectrum Quiet Mode

RZQG71L8Y1



NOTES

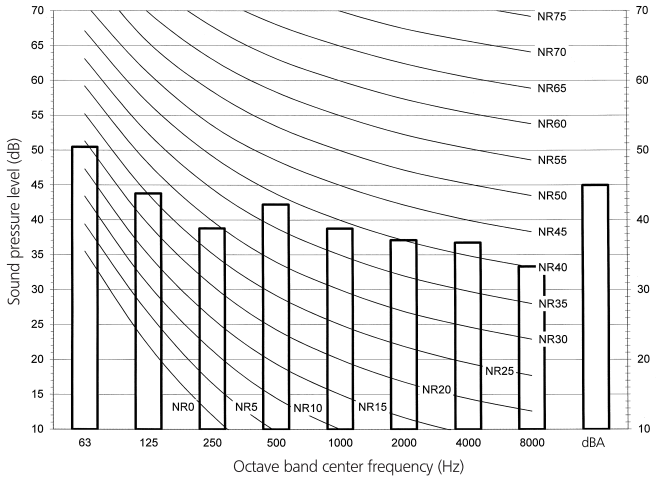
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location
(discharge side)

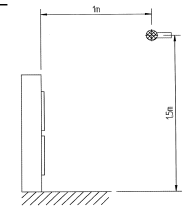
3D077786

RZQG100L8Y1



NOTES

1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



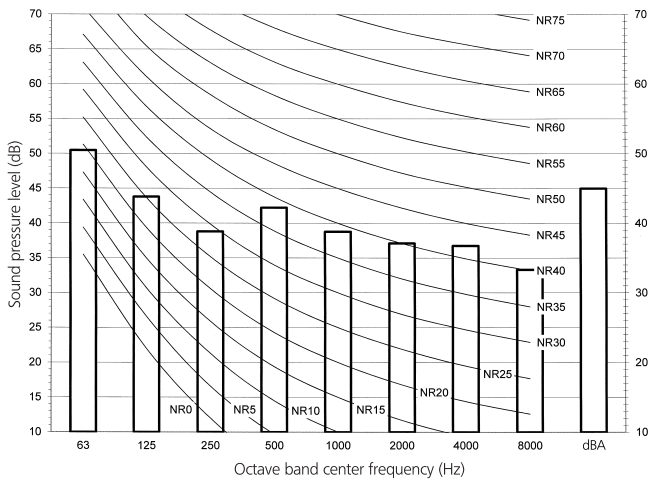
Measuring location
(discharge side)

3D077787

11 Sound data

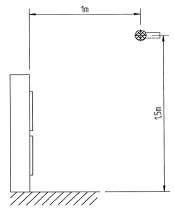
11 - 4 Sound Pressure Spectrum Quiet Mode

RZQG125L8Y1



NOTES

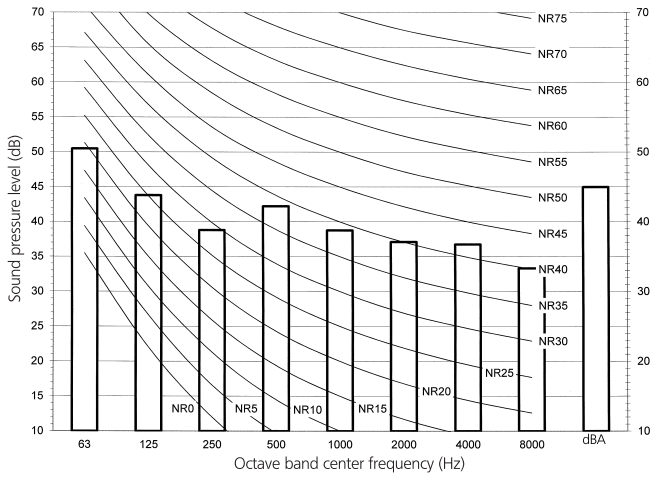
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20μPa.



Measuring location
(discharge side)

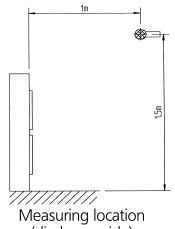
3D077788

RZQG140LY1



NOTES

1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20μPa.



Measuring location
(discharge side)

3D077789

12 Installation

12 - 1 Installation Method

RZQG-L(8)Y1

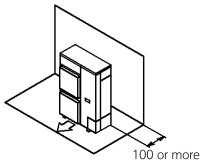
Installation service space

The measure of these values is "mm".

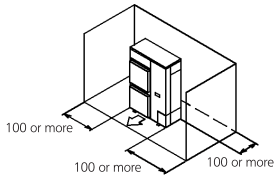
(A) When there are obstacles on suction sides.

- **No obstacle above**

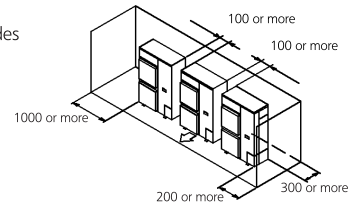
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

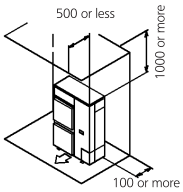


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

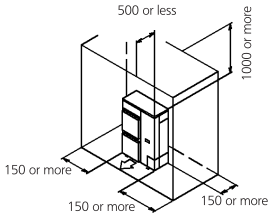


- **Obstacle above, too.**

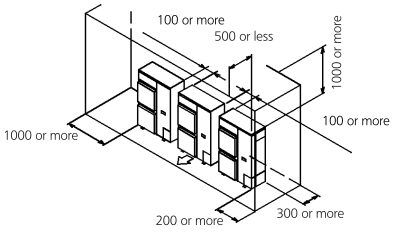
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



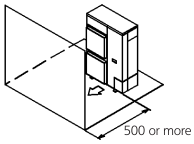
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



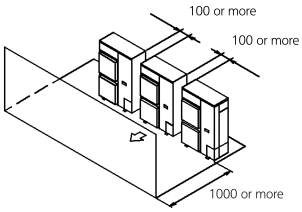
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

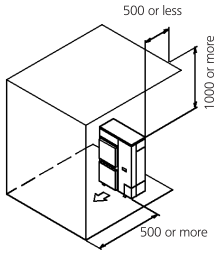


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

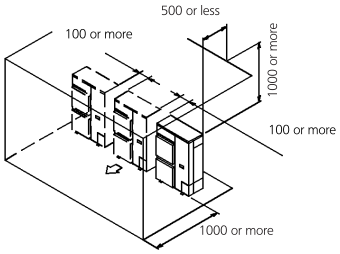


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



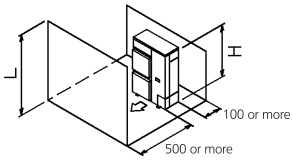
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

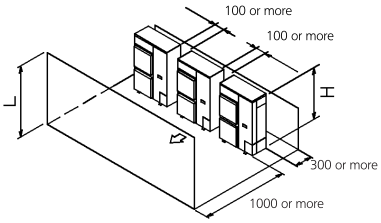
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



3D069554

12 Installation

12 - 1 Installation Method

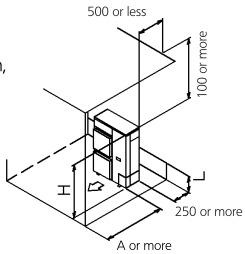
RZQG-L(8)Y1

● **Obstacle above, too**

① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

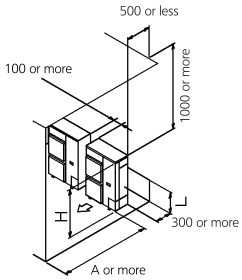


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

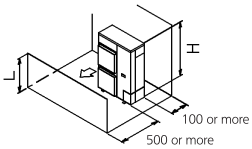


Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

● **No obstacle above**

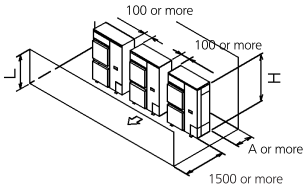
① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more

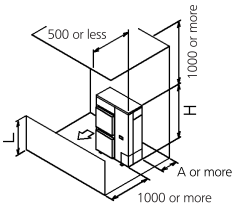


● **Obstacle above, too**

① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

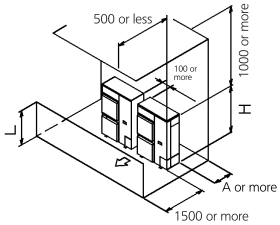


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

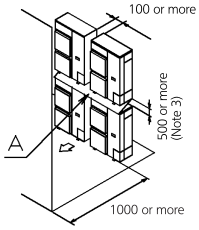
	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

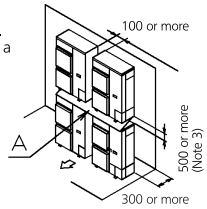


(D) Double-decker installation

① Obstacle on the discharge side. (Note 1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.

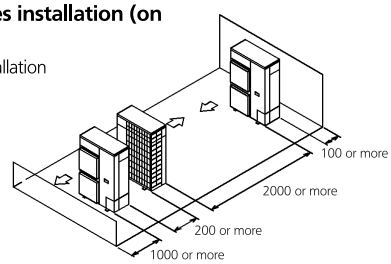


② Obstacle on the suction side. (Note 1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



(E) Multiple rows of series installation (on the rooftop, etc.)

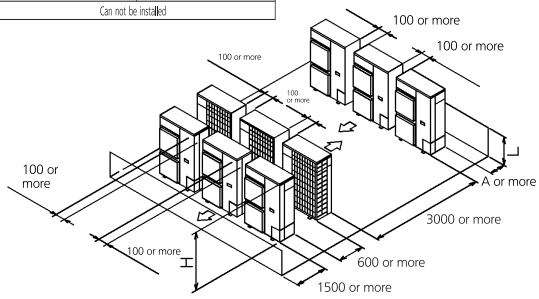
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. Close off the gap between the upper and lower units so there is no reintake of discharged air.

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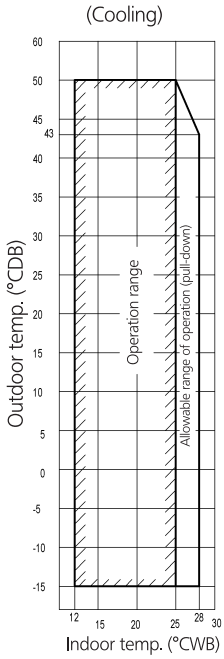
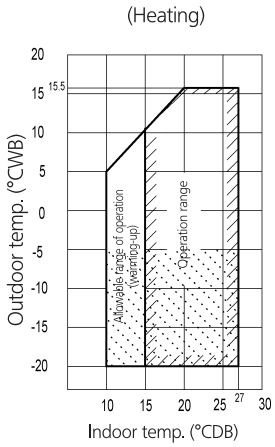
13 Operation range

13 - 1 Operation Range

RZQG-L(8)Y1





Notes:

1 Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).

2 To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3 If the unit has to operate for 5 days in this ⁘ operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

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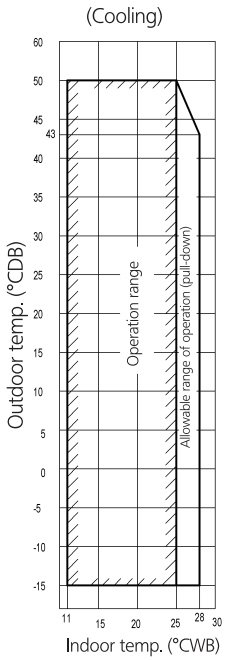
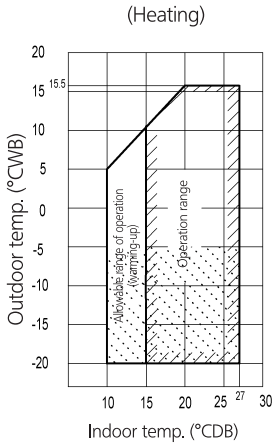
RZQG-L(8)Y1 - EDP Room





Notes:

1 Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).

2 To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3 If the unit has to operate for 5 days in this ⁘ operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

3D076503

Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende

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