

Air Conditioning
Technical Data

RZQSG-L3/9V1



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RZQSG-L3/9V1

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1 Features

Technology and comfort combined for commercial applications

- Top efficiency: - Energy labels up to A++ (cooling) /A+ (heating) for RZQG71/100L9V1 + FCQG71/100F - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditions
- Replace existing R-22 or R-407C systems without having to replace the piping
- Guarantees operation in both heating and cooling mode down to -15°C
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Maximum piping length up to 50m, 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.



Inverter



Auto cooling-
heating
changeover

2 Specifications

2-1 Capacity and Power input				FBQ71D/RZQSG71L3V1	FBQ100D/RZQSG100L9V1	FBQ125D/RZQSG125L9V1
Indoor unit				FBQ71D	FBQ100D	FBQ125D
Outdoor unit				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1
Cooling capacity	Nom.		kW	6.8 (1)	9.5 (1)	12.0 (1)
Heating capacity	Nom.		kW	7.50 (1)	10.80 (1)	13.50 (1)
Power input	Cooling	Nom.	kW	1.98 (1)	2.84 (1)	3.72 (1)
	Heating	Nom.	kW	1.91 (1)	2.94 (1)	3.72 (1)

2 Specifications

2-1 Capacity and Power input				FBQ71D/RZQSG71L3V1		FBQ100D/RZQSG100L9V1		FBQ125D/RZQSG125L9V1		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+				A		
		Pdesign	kW	6.80		9.50		12.00		
		SEER		5.84		5.61		5.47		
		Annual energy consumption	kWh	408		593		768		
		A Condi on (35°C - 27/19)	Pdc	kW	6.80		9.50		12.00	
			EERd		3.43		3.35		3.23	
			power input	kW	1.98		2.84		3.72	
		B Condi on (30°C - 27/19)	Pdc	kW	5.01		7.00		8.84	
			EERd		4.59		4.81		3.68	
			power input	kW	1.09		1.46		2.40	
		C Condi on (25°C - 27/19)	Pdc	kW	3.63		4.50		5.68	
			EERd		7.85		7.07		7.42	
			power input	kW	0.46		0.64		0.77	
		D Condi on (20°C - 27/19)	Pdc	kW	3.76		3.94		3.95	
			EERd		10.20		9.03		9.50	
			power input	kW	0.37		0.44		0.42	
	Heating (Average climate)	Energy label		A+						
		Pdesign	kW	6.00		7.60				
		SCOP/A		4.01		4.15		4.01		
		SCOPnet/A		4.05		4.19		4.05		
		Annual energy consumption	kWh	2,095		2,564		2,653		
		Required back up heating cap at design conditions	kW	1.25		1.83		1.81		
		TOL	Tol (temper ature operati ng limit)	°C	-15					
			Pdh (declar ed heating cap)	kW	3.81		4.18		4.23	
			COPd (declared COP)		1.76		2.10		2.22	
			Power input	kW	2.16		1.99		1.91	
		TBivale nt	Tbiv (bivalen t temper ature)	°C	-7					
			Pdh (declar ed heating cap)	kW	5.31		6.72			
			COPd (declared COP)		2.23		3.01		2.85	
			Power input	kW	2.38		2.23		2.36	
		A Condi on (- 7°C)	Pdh (declar ed heating cap)	kW	5.31		6.72			
		DAIKIN • Split - Sky Air • RZQSG-L3/9V1		COPd (declared COP)	2.23		3.01		2.85	

2 Specifications

2-1 Capacity and Power input				FBQ71D/RZQSG71L3V1	FBQ100D/RZQSG100L9V1	FBQ125D/RZQSG125L9V1
Pto (Thermostat off)		W		3.0		4.0
Cooling	Psb (Standby mode cooling)	W		14.5		22.0
	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
	Pck (Crankcase heater mode)	W			0.0	
Poff (Off mode)		W		14.5		22.0
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					No	
Ecolabel logo					No	
Nominal efficiency	EER			3.43 (2)	3.35 (2)	3.23 (2)
	COP			3.92 (2)	3.67 (2)	3.63 (2)
	Annual energy consumption		kWh	991	1,418	1,858
	Energy label	Cooling			A	
		Heating			A	

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

2-2 Capacity and Power input				FCQHG71F/ RZQSG71L3V1	FCQHG100F/ RZQSG100L9V1	FCQHG125F/ RZQSG125L9V1	FCQHG140F/ RZQSG140L9V1
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	1.94	2.57	3.71	4.17
	Heating	Nom.	kW	1.83	2.51	3.60	4.29

2 Specifications

2-2 Capacity and Power input				FCQHG71F/ RZQSG71L3V1		FCQHG100F/ RZQSG100L9V1		FCQHG125F/ RZQSG125L9V1		FCQHG140F/ RZQSG140L9V1									
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++				A		-								
		Pdesign		kW	6.80		9.50		12.00		-								
		SEER			6.50		6.70		5.40		-								
		Annual energy consumption		kWh	366		497		778		-								
		A Condi- tion (35°C - 27/19)	Pdc		kW	6.80		9.50		12.00		-							
			EERd			3.50		3.70		3.12		-							
			power input		kW	1.94		2.57		3.85		-							
		B Condi- tion (30°C - 27/19)	Pdc		kW	5.01		7.00		8.84		-							
			EERd			4.99		5.00		3.38		-							
			power input		kW	1.00		1.40		2.62		-							
		C Condi- tion (25°C - 27/19)	Pdc		kW	3.71		4.69		5.69		-							
			EERd			8.31		8.29		6.80		-							
			power input		kW	0.45		0.57		0.84		-							
		D Condi- tion (20°C - 27/19)	Pdc		kW	3.90		4.12		4.04		-							
			EERd			11.60		11.12		9.88		-							
			power input		kW	0.34		0.38		0.41		-							
		Heating (Average climate)	Energy label			A+						-							
			Pdesign		kW	7.60		8.03				-							
			SCOP/A			4.15		4.30		4.10		-							
			SCOPnet/A			-		4.32		4.12		-							
	Annual energy consumption		kWh	2,563		2,615		2,742		-									
	Required back up heating cap at design conditions		kW	1.14		0.67		0.66		-									
	TOL		Tol (temper- ature operati- ng limit)	°C	-15						-								
				Pdh (declar- ed heating cap)		kW	6.01		7.79		7.82		-						
			COPd (declared COP)			2.15		2.30		2.38		-							
			Power input		kW	2.80		3.39		3.29		-							
	TBivale- nt		Tbiv (bivalen- t temper- ature)	°C	-7						-								
				Pdh (declar- ed heating cap)		kW	6.72		7.10				-						
		COPd (declared COP)			2.56		3.29		3.12		-								
		Power input		kW	-		2.16		2.28		-								
	A Condi- tion (- 7°C)	Pdh (declar- ed heating cap)	kW	6.72		7.10				-									
				COPd (declared COP)			2.56		3.29		3.12		-						
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COPd (declared COP)												2.56		3.29		3.12		-	

2 Specifications

2-2 Capacity and Power input			FCQHG71F/ RZQSG71L3V1	FCQHG100F/ RZQSG100L9V1	FCQHG125F/ RZQSG125L9V1	FCQHG140F/ RZQSG140L9V1	
Pto (Thermostat off)		W	7.0			-	
Cooling	Psb (Standby mode cooling)		7.0			-	
	Cdc (Degradation cooling)		0.25			-	
Heating	Psb (Standby mode heating)		W	-	7.0	-	
	Cdh (Degradation heating)		0.25			-	
Pck (Crankcase heater mode)		W	0.0			-	
Poff (Off mode)		W	0.0			-	
Cooling function included			Yes			-	
Heating function included			Yes			-	
Average climate included			Yes			-	
Cold season included			No			-	
Warm season included			No			-	
Ecolabel logo			No			-	
Nominal efficiency	EER		3.50	3.70	3.23	3.21	
	COP		4.10	4.30	3.75	3.61	
	Annual energy consumption		kWh	970	1,285	1,855	-
	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

2-3 Capacity and Power input				FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L9V1	FCQG125F/ RZQSG125L9V1	FCQG140F/ RZQSG140L9V1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	-
Heating capacity	Nom.		kW	7.5	10.8	13.5	-
Power input	Cooling	Nom.	kW	2.12	2.88	3.74	-
	Heating	Nom.	kW	2.08	3.05	3.96	-

2 Specifications

2-3 Capacity and Power input				FCQG71F/RZQSG71L3V1		FCQG100F/ RZQSG100L9V1		FCQG125F/ RZQSG125L9V1		FCQG140F/ RZQSG140L9V1					
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++				A		-				
		Pdesign		kW	6.80		9.50		12.00		-				
		SEER			6.10		6.50		5.30		-				
		Annual energy consumption		kWh	390		512		793		-				
		A Condi- tion (35°C - 27/19)	Pdc		kW	6.80		9.50		12.00		-			
			EERd			3.10		3.30		2.91		-			
			power input		kW	2.19		2.88		4.13		-			
		B Condi- tion (30°C - 27/19)	Pdc		kW	5.01		7.00		8.84		-			
			EERd			3.94		4.58		3.14		-			
			power input		kW	1.27		1.53		2.82		-			
		C Condi- tion (25°C - 27/19)	Pdc		kW	3.51		4.56		5.69		-			
			EERd			8.43		8.30		6.91		-			
			power input		kW	0.42		0.55		0.83		-			
		D Condi- tion (20°C - 27/19)	Pdc		kW	3.63		3.99		3.98		-			
			EERd			11.57				10.19		-			
			power input		kW	0.31		0.35		0.40		-			
	Heating (Average climate)	Energy label			A+						-				
		Pdesign		kW	6.33		7.60		8.03		-				
		SCOP/A			4.10				4.01		-				
		SCOPnet/A			-		4.11		4.02		-				
		Annual energy consumption		kWh	2,162		2,596		2,804		-				
		Required back up heating cap at design conditions		kW	0.58		0.52		0.72		-				
		TOL	Tol (temper- ature operati- ng limit)	°C	-15						-				
					Pdh (declar- ed heating cap)		kW	6.00		7.66		7.64		-	
					COPd (declared COP)			1.85		2.07		2.09		-	
					Power input		kW	3.24		3.71		3.66		-	
		TBivale- nt	Tbiv (bivalen- t temper- ature)	°C	-7						-				
					Pdh (declar- ed heating cap)		kW	5.60		6.72		7.10		-	
					COPd (declared COP)			2.25		3.21		2.94		-	
					Power input		kW	-		2.10		2.42		-	
A Condi- tion (- 7°C)	Pdh (declar- ed heating cap)	kW	5.60		6.72		7.10		-						
			COPd (declared COP)		2.25		3.21		2.94		-				
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2 Specifications

2-3 Capacity and Power input			FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L9V1	FCQG125F/ RZQSG125L9V1	FCQG140F/ RZQSG140L9V1	
Pto (Thermostat off)		W	7.0			-	
Cooling	Psb (Standby mode cooling)	W	7.0			-	
	Cdc (Degradation cooling)		0.25			-	
Heating	Psb (Standby mode heating)	W	-	7.0		-	
	Cdh (Degradation heating)		0.25			-	
Pck (Crankcase heater mode)		W	0.0			-	
Poff (Off mode)		W	0.0			-	
Cooling function included			Yes			-	
Heating function included			Yes			-	
Average climate included			Yes			-	
Cold season included			No			-	
Warm season included			No			-	
Ecolabel logo			No			-	
Nominal efficiency	EER		3.21	3.30	3.21	-	
	COP		3.61	3.54	3.41	-	
	Annual energy consumption		kWh	1,060	1,440	1,870	-
	Energy label	Cooling	A			-	
		Heating	A		B	-	

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

2-4 Capacity and Power input				FVQ71C/RZQSG71L3V1	FVQ100C/ RZQSG100L9V1	FVQ125C/ RZQSG125L9V1	FVQ140C/ RZQSG140L9V1
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	2.12	2.96	4.27	4.45
	Heating	Nom.	kW	2.08	2.99	3.96	4.54

2 Specifications

2

2-4 Capacity and Power input				FVQ71C/RZQSG71L3V1	FVQ100C/ RZQSG100L9V1	FVQ125C/ RZQSG125L9V1	FVQ140C/ RZQSG140L9V1		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A			-		
		Pdesign	kW	6.80	9.50	12.00	-		
		SEER		5.50			-		
		Annual energy consumption	kWh	433	605	764	-		
		A Condi- on (35°C - 27/19)	Pdc	kW	6.80	9.50	12.00	-	
			EERd		3.21			2.81	-
			power input	kW	2.12	2.96	4.28	-	
		B Condi- on (30°C - 27/19)	Pdc	kW	5.01	7.00	8.84	-	
			EERd		3.85			3.40	-
			power input	kW	1.30	1.56	2.60	-	
		C Condi- on (25°C - 27/19)	Pdc	kW	3.52	4.60	5.69	-	
			EERd		6.49			7.26	-
			power input	kW	0.54	0.72	0.79	-	
		D Condi- on (20°C - 27/19)	Pdc	kW	3.64	4.03	3.96	-	
			EERd		8.73			10.19	-
			power input	kW	0.42	0.49	0.39	-	
	Heating (Average climate)	Energy label		A	A+	A	-		
		Pdesign	kW	6.33	7.60		-		
		SCOP/A		3.86	4.01	3.85	-		
		SCOPnet/A		-	4.02	3.86	-		
		Annual energy consumption	kWh	2,296	2,654	2,764	-		
		Required back up heating cap at design conditions	kW	0.60	0.57	0.37	-		
		TOL	Tol (temper- ature operati- ng limit)	°C	-15			-	
				Pdh (declar- ed heating cap)	kW	5.96	7.54	8.07	-
				COPd (declared COP)		1.72	2.03	2.15	-
				Power input	kW	3.46	3.72	3.76	-
		TBivale- nt	Tbiv (bivalen- t temper- ature)	°C	-7			-	
				Pdh (declar- ed heating cap)	kW	5.60	6.72		-
				COPd (declared COP)		2.16	3.06	2.96	-
				Power input	kW	-	2.20	2.28	-
		A Condi- on (- 7°C)	Pdh (declar- ed heating cap)	kW	5.60	6.72		-	
				COPd (declared COP)		2.16	3.06	2.96	-
Split - S				Split - S					
DAIKIN • Split - S				DAIKIN • Split - S					
RZQSG-L3/9V1				RZQSG-L3/9V1					
COPd (declared COP)				2.16	3.06	2.96	-		

2 Specifications

2-4 Capacity and Power input			FVQ71C/RZQSG71L3V1	FVQ100C/ RZQSG100L9V1	FVQ125C/ RZQSG125L9V1	FVQ140C/ RZQSG140L9V1	
Pto (Thermostat off)		W	60.0	7.0		-	
Cooling	Psb (Standby mode cooling)		W	7.0		-	
	Cdc (Degradation cooling)			0.25		-	
Heating	Psb (Standby mode heating)		W	-	7.0	-	
	Cdh (Degradation heating)			0.25		-	
Pck (Crankcase heater mode)		W		0.0		-	
Poff (Off mode)		W		0.0		-	
Cooling function included				Yes		-	
Heating function included				Yes		-	
Average climate included				Yes		-	
Cold season included				No		-	
Warm season included				No		-	
Ecolabel logo				No		-	
Nominal efficiency	EER			3.21		2.81	3.01
	COP			3.61		3.41	
	Annual energy consumption		kWh	1,060	1,480	2,135	2,225
	Energy label	Cooling		A			-
		Heating		A		B	-

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

2-5 Capacity and Power input				FDQ125C/RZQSG125L9V1
Cooling capacity	Nom.		kW	12.0
Heating capacity	Nom.		kW	13.5
Power input	Cooling	Nom.	kW	3.74
	Heating	Nom.	kW	3.85

2 Specifications

2-5 Capacity and Power input				FDQ125C/RZQSG125L9V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A	
		Pdesign	kW	12.00	
		SEER		5.20	
		Annual energy consumption	kWh	808	
		A Condi- on (35°C - 27/19)	Pdc	kW	12.00
			EERd		3.09
			power input	kW	3.89
		B Condi- on (30°C - 27/19)	Pdc	kW	8.84
			EERd		3.41
			power input	kW	2.60
		C Condi- on (25°C - 27/19)	Pdc	kW	5.69
			EERd		6.59
			power input	kW	0.87
		D Condi- on (20°C - 27/19)	Pdc	kW	4.04
			EERd		8.52
			power input	kW	0.48
	Heating (Average climate)	Energy label		A	
		Pdesign	kW	7.60	
		SCOP/A		3.90	
		SCOPnet/A		3.91	
		Annual energy consumption	kWh	2,729	
		Required back up heating cap at design conditions	kW	0.58	
		TOL	Tol (temper- ature operati- ng limit)	°C	-15
			Pdh (declar- ed heating cap)	kW	7.51
			COPd (declared COP)		2.21
			Power input	kW	3.40
		TBivale- nt	Tbiv (bivalen- t temper- ature)	°C	-7
			Pdh (declar- ed heating cap)	kW	6.72
			COPd (declared COP)		2.89
			Power input	kW	2.33
		A Condi- on (- 7°C)	Pdh (declar- ed heating cap)	kW	6.72
			COPd (declared COP)		2.89

2 Specifications

2-5 Capacity and Power input				FDQ125C/RZQSG125L9V1	
Pto (Thermostat off)		W		7.0	
Cooling	Psb (Standby mode cooling)		W	7.0	
	Cdc (Degradation cooling)			0.25	
Heating	Psb (Standby mode heating)		W	7.0	
	Cdh (Degradation heating)			0.25	
Pck (Crankcase heater mode)		W		0.0	
Poff (Off mode)		W		0.0	
Cooling function included				Yes	
Heating function included				Yes	
Average climate included				Yes	
Cold season included				No	
Warm season included				No	
Ecolabel logo				No	
Nominal efficiency	EER			3.21	
	COP			3.51	
	Annual energy consumption		kWh	1,870	
	Energy label	Cooling		A	
		Heating		B	

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

2-6 Capacity and Power input				FHQ71CB/RZQSG71L3V1	FHQ100CB/ RZQSG100L9V1	FHQ125CB/ RZQSG125L9V1	FHQ140CB/ RZQSG140L9V1
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	1.97	2.96	4.15	4.45
	Heating	Nom.	kW	1.88	2.99	3.73	4.54

2 Specifications

2

2-6 Capacity and Power input				FHQ71CB/RZQSG71L3V1	FHQ100CB/ RZQSG100L9V1	FHQ125CB/ RZQSG125L9V1	FHQ140CB/ RZQSG140L9V1		
Seasonal efficiency (according to EN14825)	Cooling	Pdesign		kW	6.80	9.50	12.00	-	
		SEER			5.61			-	
		Annual energy consumption		kWh	425	593	749	-	
		A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.00	-	
			EERd		3.46	3.21	2.89	-	
			power input	kW	1.96	2.96	4.16	-	
		B Condition (30°C - 27/19)	Pdc	kW	5.01	7.00	8.84	-	
			EERd		4.55	4.50	3.44	-	
			power input	kW	1.10	1.56	2.57	-	
		C Condition (25°C - 27/19)	Pdc	kW	3.64	4.60	5.69	-	
			EERd		5.98	6.58	7.38	-	
			power input	kW	0.61	0.70	0.78	-	
		D Condition (20°C - 27/19)	Pdc	kW	3.81	4.04	3.99	-	
			EERd		8.22	8.86	10.58	-	
			power input	kW	0.46			0.38	-
	Heating (Average climate)	Pdesign		kW	7.60			-	
		SCOP/A			3.90	3.91	4.01	-	
		SCOPnet/A			-	3.92	4.02	-	
		Pdh Heating capacity at -10°			-	7.13	7.14	-	
		Annual energy consumption		kWh	2,727	2,722	2,654	-	
		Required back up heating cap at design conditions		kW	1.12	0.47	0.46	-	
		TOL	Tol (temper ature operati ng limit)	°C	-15			-	
				Pdh (declar ed heating cap)	kW	6.06	7.79	7.84	-
				COPd (declared COP)		1.91	2.11	2.19	-
				Power input	kW	3.17	3.70	3.58	-
TBivale nt		Tbiv (bivalen t temper ature)	°C	-7			-		
			Pdh (declar ed heating cap)	kW	6.72			-	
			COPd (declared COP)		2.33	3.22	3.00	-	
			Power input	kW	-	2.09	2.24	-	
A Condition (-7°C)		Pdh (declar ed heating cap)	kW	6.72			-		
				COPd (declared COP)		2.33	3.22	3.00	-
Split - S ystem		Power input	kW	2.09			2.24	-	
				COPd (declared COP)		-	2.09	2.24	-

2 Specifications

2-6 Capacity and Power input					FHQ71CB/RZQSG71L3V1	FHQ100CB/ RZQSG100L9V1	FHQ125CB/ RZQSG125L9V1	FHQ140CB/ RZQSG140L9V1
Pto (Thermostat off)		W			56.0	7.0		-
Cooling	Psb (Standby mode cooling)	W			7.0			-
	Cdc (Degradation cooling)				0.25			-
Heating	Psb (Standby mode heating)	W			-	7.0		-
	Cdh (Degradation heating)				0.25			-
Pck (Crankcase heater mode)		W			0.0			-
Poff (Off mode)		W			0.0			-
Cooling function included					Yes			-
Heating function included					Yes			-
Average climate included					Yes			-
Cold season included					No			-
Warm season included					No			-
Ecolabel logo					No			-
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	65	70		-
	Sound power level indoor	Cooling	Nom.	dBA	55	60	62	-
Nominal efficiency	EER				3.46	3.21	2.89	3.01
	COP				4.00	3.61	3.62	3.41
	Annual energy consumption		kWh		983 (1)	1,480 (1)	2,075 (1)	2,225 (1)

Notes

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

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

2-7 Capacity and Power input				FAQ71C9/RZQSG71L3V1	FAQ100C9/RZQSG100L9V1
Cooling capacity	Nom.		kW	6.8	9.5
Heating capacity	Nom.		kW	7.5	10.8
Power input	Cooling	Nom.	kW	2.12	3.16
	Heating	Nom.	kW	2.08	3.17

2 Specifications

2-7 Capacity and Power input				FAQ71C9/RZQSG71L3V1		FAQ100C9/RZQSG100L9V1			
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+					
		Pdesign	kW	6.8		9.50			
		SEER		5.81		5.61			
		Annual energy consumption	kWh	410		593			
		A Condi on (35°C - 27/19)	Pdc	kW	6.80		9.50		
			EERd		3.21		3.01		
			power input	kW	-		3.16		
		B Condi on (30°C - 27/19)	Pdc	kW	5.01		7.00		
			EERd		3.86		3.44		
			power input	kW	-		2.04		
		C Condi on (25°C - 27/19)	Pdc	kW	3.65		4.50		
			EERd		7.91		7.56		
			power input	kW	-		0.60		
		D Condi on (20°C - 27/19)	Pdc	kW	3.81		3.87		
			EERd		10.81		10.39		
			power input	kW	-		0.38		
	Heating (Average climate)	Energy label		A		A+			
		Pdesign	kW	6.33		6.81			
		SCOP/A		3.90		4.01			
		SCOPnet/A		-		4.02			
		Pd _h Heating capacity at -10°		-		6			
		Annual energy consumption	kWh	2,273		2,378			
		Required back up heating cap at design conditions	kW	0.63		0.36			
		TOL	Tol (temperature operating limit)	°C	-15				
			Pd _h (declared heating cap)	kW	5.87		7.15		
			COP _d (declared COP)		1.73		1.79		
			Power input	kW	-		4.00		
		TBivalent	T _{biv} (bivalent temperature)	°C	-7				
			Pd _h (declared heating cap)	kW	5.60		6.02		
			COP _d (declared COP)		2.44		2.89		
			Power input	kW	-		2.09		
			A Condi on (-7°C)	Pd _h (declared heating cap)	kW	5.60		6.02	
				COP _d (declared COP)		2.44		2.89	
DAIKIN • Split - Sky Air • RZQSG-L3/9V1									

2 Specifications

2-7 Capacity and Power input					FAQ71C9/RZQSG71L3V1	FAQ100C9/RZQSG100L9V1
Pto (Thermostat off)		W			7.0	
Cooling	Psb (Standby mode cooling)	W			7.0	
	Cdc (Degradation cooling)				0.25	
Heating	Psb (Standby mode heating)	W			-	7.0
	Cdh (Degradation heating)				0.25	
Pck (Crankcase heater mode)		W			0.0	
Poff (Off mode)		W			0.0	
Cooling function included					Yes	
Heating function included					Yes	
Average climate included					Yes	
Cold season included					No	
Warm season included					No	
Ecolabel logo					No	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	65	70
	Sound power level indoor	Cooling	Nom.	dBA	59	65
Nominal efficiency	EER				3.21	3.01
	COP				3.61	3.41
	Annual energy consumption			kWh	1,059	1,580
	Energy label	Cooling			A	B
		Heating			A	B

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

2-8 Technical Specifications					RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
Capacity control	Method				Inverter controlled			
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height	mm	770	990		1,430	
		Width	mm	900	940			
		Depth	mm	320				
	Packed unit	Height	mm	900	1,170		1,610	
		Width	mm	980	1,015			
		Depth	mm	420	422			
Weight	Unit		kg	67	72	74	95	
	Packed unit		kg	71	81	83	104	
Heat exchanger	Fin	Type			WF fin			
		Treatment			Anti-corrosion treatment (PE)			
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	Moderate	m³/min	-	55		-
		Heating	Nom.	m³/min	48	83		62
			Moderate	m³/min	-	55		-

2 Specifications

2-8 Technical Specifications					RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
Fan motor	Quantity				1			2
	Model				KFD-325-70-8A	Brushless DC motor		
	Output		W	70	200		94	
	Drive				Direct drive			
	Speed	Cooling	Super low	rpm	-			
		Heating	Super low	rpm	-			
Sound power level	Cooling			dBA	65	70		69
	Heating			dBA	-			
Sound pressure level	Cooling	Nom.		dBA	49	53	54	53
		Silent operation		dBA	47	-		
	Heating	Nom.		dBA	51	57	58	54
	Night quiet mode	Level 1		dBA	-	49		
Operation range	Cooling	Ambient	Min.	°CDB	-15.0			
			Max.	°CDB	46			
	Heating	Ambient	Min.	°CWB	-15			
			Max.	°CWB	15.5			
Refrigerant	Type				R-410A			
	Charge			kg	2.75	2.9		4.0
				TCO ₂ eq	5.7	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			1			
	Gas	Quantity			1			
		Type			Flare connection			
		OD	mm		15.9			
	Drain	Quantity			3	5		
		Type			Hole			
		ID	mm		-			
		OD	mm		26			
	Piping length	OU - IU	Min.	m	5			
			Max.	m	50			
		System	Equivalent	m	70			
			Chargeless	m	30			
	Additional refrigerant charge				kg/m	See installation manual		
Level difference	IU - OU	Max.	m	15	30.0			
	IU - IU	Max.	m	0.5				
Heat insulation				Both liquid and gas pipes				
Refrigerant oil	Type				FVC50K			
	Charged volume			l	0.75	0.9		1.35
Defrost method					Pressure equalising	Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01			High pressure switch			
		02			Fan motor thermal protection	Low pressure switch		
		03			Fuse	Fan driver overload protector		
		04			-	Fuse		

Standard Accessories : Tie-wraps; Quantity : 2;

Standard Accessories : Installation manual; Quantity : 1;

2 Specifications

2-9 Electrical Specifications				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
Power supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			
	Voltage range	Min.	%	-10	198		-10
		Max.	%	10	264		10
Current - 50Hz	Maximum fuse amps (MFA)		A	20	32		-
Current	Zmax	List		-	Complies to EN61000-3-11		
	Recommended fuses		A	25	40		
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

See separate drawing for electrical data

European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current larger than 16A and ≤ 75A per phase.

Short-circuit power

Contains fluorinated greenhouse gases

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

Minimum Ssc (=Short-circuit power) value: Equipment complying with EN/IEC 61000-3-12: European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16A and ≤ 75A per phase

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.

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series

3 Electrical data

3 - 1 Electrical Data

RZQSG125-140L9V1

Indoor	Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM	
							MSC	RLA	kW	FLA	kW	FLA
FCQHG125FVEB	RZQSG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.4	0.2	0.6	0.244	1.4
FCQG35FVEB x4				29.0	—	32	—	24.4	0.2	0.6	0.044x4	0.3x4
FCQG50FVEB x3				28.6	—	32	—	24.4	0.2	0.6	0.039x3	0.3x3
FCQG60FVEB x2				28.3	—	32	—	24.4	0.2	0.6	0.044x2	0.3x2
FCQG125FVEB				28.8	—	32	—	24.4	0.2	0.6	0.168	1.0
FFQ35C2VEB x4				29.5	—	32	—	24.4	0.2	0.6	0.05x4	0.4x4
FFQ50C2VEB x3				29.0	—	32	—	24.4	0.2	0.6	0.05x3	0.4x3
FFQ60C2VEB x2				29.0	—	32	—	24.4	0.2	0.6	0.05x2	0.6x2
FDXS35F2VEB x4				29.0	—	32	—	24.4	0.2	0.6	0.034x4	0.3x4
FDXS50F2VEB9 x3				29.4	—	32	—	24.4	0.2	0.6	0.06x3	0.5x3
FDXS60F2VEB x2				28.8	—	32	—	24.4	0.2	0.6	0.060x2	0.5x2
FBQ35C8VEB x4				33.5	—	40	—	24.4	0.2	0.6	0.140x4	1.2x4
FBQ50C8VEB x3				32.0	—	40	—	24.4	0.2	0.6	0.140x3	1.2x3
FBQ60C8VEB x2				30.3	—	32	—	24.4	0.2	0.6	0.350x2	1.1x2
FBQ125C8VEB				30.1	—	32	—	24.4	0.2	0.6	0.350	2.1
FDQ125C7VEB				30.1	—	32	—	24.4	0.2	0.6	0.350	2.1
FVQ125CVEB				29.0	—	32	—	24.4	0.2	0.6	0.238	1.2
FHQ35CAVEB x4				30.5	—	32	—	24.4	0.2	0.6	0.060x4	0.6 x 4
FHQ50CAVEB x3				29.8	—	32	—	24.4	0.2	0.6	0.060x3	0.6 x 3
FHQ60CAVEB x2				29.0	—	32	—	24.4	0.2	0.6	0.091x2	0.6 x 2
FHQ125CAVEB				29.4	—	32	—	24.4	0.2	0.6	0.150	1.5
FCQHG71FVEB x2	RZQSG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091x2	0.5x2
FCQHG140FVEB				29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB x4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4
FCQG50FVEB x3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3
FCQG71FVEB x2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054x2	0.4x2
FCQG140FVEB				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB x4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.05x4	0.4x4
FFQ50C2VEB x3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.05x3	0.4x3
FDXS35F2VEB x4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034x4	0.3x4
FDXS50F2VEB9 x3				29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FBQ35C8VEB x4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140x4	1.2x4
FBQ50C8VEB x3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3
FBQ71C8VEB x2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350x2	1.1x2
FBQ140C8VEB				30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FAQ71CVEB x2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2
FVQ140CVEB				29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CAVEB x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4
FHQ50CAVEB x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3
FHQ71CAVEB x2				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091 x 2	0.8 x 2
FHQ140CAVEB				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.15	1.8

SYMBOLS

MCA	: Min. Circuit Amps. (A)
TOCA	: Total Over-Current Amps. (A)
MFA	: Max. Fuse Amps. (See note 7) (A)
MSC	: Max. current during the starting compressor. (A)
RLA	: Rated Load Amps. (A)
OFM	: Outdoor Fan Motor. (A)
IFM	: Indoor Fan Motor.
FLA	: Full Load Amps.
kW	: Fan Motor Rated Output. (kW)

NOTES

- 1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
- 2 TOCA means the total value of each OC set.
- 3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 4 Maximum allowable voltage variation between phases is 2%.
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA.
(next lower standard fuse rating, min.15A)
- 6 Select wire size based on the larger value of MCA or TOCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter.
(earth leakage circuit breaker)

3D090679

3 Electrical data

3 - 1 Electrical Data

RZQSG-L3/9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	(1)	(2)	(3)	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQSG71L3V1B	3N~ 50Hz	380~ 415V	MAX. 50Hz 456V MIN. 50Hz 342V	19	20	–	16.2	0.07	0.3	2x0.034	2x0.3
2xFNQ50A2VEB	RZQSG100L9V1B				28.9	32	–	24.4	0.2	0.6	2x0.06	2x0.5
3xFNQ35A2VEB	RZQSG100L9V1B				28.8	32	–	24.4	0.2	0.6	3x0.034	3x0.3
2xFNQ60A2VEB	RZQSG125L9V1B				29	32	–	24.4	0.2	0.6	2x0.06	2x0.5
3xFNQ50A2VEB	RZQSG125L9V1B				29.5	32	–	24.4	0.2	0.6	3x0.06	3x0.5
4xFNQ35A2VEB	RZQSG125L9V1B				29.2	32	–	24.4	0.2	0.6	4x0.034	4x0.3
3xFNQ50A2VEB	RZQSG140L9V1B				29.5	32	–	24.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQSG140L9V1B				29.2	32	–	24.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- 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

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RZQSG71-100L3/9V1

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM	
							MSC	RLA	kW	FLA	kW	FLA
FCQHG71FVEB	RZQSG71L3V1B	50Hz ~ 220-240V	Minimum: 196 V Maximum 264 V	18,8	—	20	—	16,2	0,07	0,3	0,091	0,5
FCQG35FVEB	RZQSG71L3V1B			18,9	—	20	—	16,2	0,07	0,3	0,044×2	0,3×2
FCQG71FVEB	RZQSG71L3V1B			18,7	—	20	—	16,2	0,07	0,3	0,054	0,4
FFQ35C2VEB	RZQSG71L3V1B			19,2	—	20	—	16,2	0,07	0,3	0,050×2	0,4×2
FDXS35F2VEB	RZQSG71L3V1B			18,9	—	20	—	16,2	0,07	0,3	0,034×2	0,3×2
FBQ35C8VEB	RZQSG71L3V1B			21,2	—	25	—	16,2	0,07	0,3	0,140×2	1,2×2
FBQ71C8VEB	RZQSG71L3V1B			19,5	—	20	—	16,2	0,07	0,3	0,350	1,1
FAQ71C8VEB9	RZQSG71L3V1B			18,7	—	20	—	16,2	0,07	0,3	0,048	0,4
FVQ71C8VEB	RZQSG71L3V1B			18,9	—	20	—	16,2	0,07	0,3	0,117	0,6
FHQ35C8VEB	RZQSG71L3V1B			19,1	—	20	—	15,7	0,07	0,3	0,060 x 2	0,6 x 2
FHQ71C8VEB	RZQSG71L3V1B			18,6	—	20	—	15,7	0,07	0,3	0,091	0,8
FCQHG100FVEB	RZQSG100L9V1B	50Hz ~ 220-240V	Minimum: 196 V Maximum 264 V	29,1	—	32	—	24,4	0,2	0,6	0,221	1,3
FCQG35FVEB	RZQSG100L9V1B			28,6	—	32	—	24,4	0,2	0,6	0,044×3	0,3×3
FCQG50FVEB	RZQSG100L9V1B			28,3	—	32	—	24,4	0,2	0,6	0,039×2	0,3×2
FCQG100FVEB	RZQSG100L9V1B			28,4	—	32	—	24,4	0,2	0,6	0,117	0,7
FFQ35C2VEB	RZQSG100L9V1B			29,0	—	32	—	24,4	0,2	0,6	0,05×3	0,4×3
FFQ50C2VEB	RZQSG100L9V1B			28,5	—	32	—	24,4	0,2	0,6	0,05×2	0,4×2
FDXS35F2VEB	RZQSG100L9V1B			28,6	—	32	—	24,4	0,2	0,6	0,034×3	0,3×3
FDXS50F2VEB9	RZQSG100L9V1B			28,8	—	32	—	24,4	0,2	0,6	0,06x2	0,5x2
FBQ35C8VEB	RZQSG100L9V1B			32,0	—	40	—	24,4	0,2	0,6	0,140×3	1,2×3
FBQ50C8VEB	RZQSG100L9V1B			30,5	—	32	—	24,4	0,2	0,6	0,140×2	1,2×2
FBQ100C8VEB	RZQSG100L9V1B			29,5	—	32	—	24,4	0,2	0,6	0,350	1,6
FAQ100C8VEB9	RZQSG100L9V1B			28,0	—	32	—	24,4	0,2	0,6	0,064	0,4
FVQ100C8VEB	RZQSG100L9V1B			29,0	—	32	—	24,4	0,2	0,6	0,238	1,2
FHQ35C8VEB	RZQSG100L9V1B			29,8	—	32	—	24,4	0,2	0,6	0,060 x 3	0,6 x 3
FHQ50C8VEB	RZQSG100L9V1B			29,0	—	32	—	24,4	0,2	0,6	0,060 x 2	0,6 x 2
FHQ100C8VEB	RZQSG100L9V1B			29,1	—	32	—	24,4	0,2	0,6	0,150	1,3
FUQ100C8VEB	RZQSG100L9V1B			29,1	—	32	—	24,4	0,2	0,6	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

- 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

- TOCA is the total value of each overcurrent set.

- 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.

- The maximum allowable voltage that is unbalanced between phases is 2%.

- 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.

- Select the wire size according to the MCA.

- MFA is used to select the circuit breaker and the ground fault circuit interruptor.

Earth leakage circuit breaker

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RZQSG71-125L3/9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQSG71L3V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	18,9	20	50	16,2	0,07	0,3	0,07	0,5
2xFBQ35D2VEB	RZQSG71L3V1B				19,6	20	–	16,2	0,07	0,3	2x0.089	2x0,3
FBQ100D2VEB	RZQSG100L9V1B				28,9	32	53	24,4	0,2	0,6	0,127	1,0
2xFBQ50D2VEB	RZQSG100L9V1B				29,1	32	–	24,4	0,2	0,6	2x0.089	2x0,3
3xFBQ35D2VEB	RZQSG100L9V1B				29,7	32	–	24,4	0,2	0,6	3x0.089	3x0,3
FBQ125D2VEB	RZQSG125L9V1B				29,5	32	80	24,4	0,2	0,6	0,187	1,5

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- 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

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RZQSG71L3V1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM	
								MSC	RLA	KW	FLA	KW	FLA
FCQHG71FVEB		RZQSG71L3V1	50Hz ~ 220-240V	Min. 198V Max. 264V	18,8	—	20	—	16,2	0,07	0,3	0,091	0,5
FCQG35FVEB	x2				18,9	—	20	—	16,2	0,07	0,3	0.044x2	0.3x2
FCQG71FVEB					18,7	—	20	—	16,2	0,07	0,3	0,054	0,4
FFQ35B9V1B	x2				19,2	—	20	—	16,2	0,07	0,3	0.055x2	0.4x2
FFQ35C2VEB	x2				18,9	—	20	—	16,2	0,07	0,3	0.050x2	0.3x2
FBQ35C8VEB	x2				21,2	—	25	—	16,2	0,07	0,3	0.140x2	1.2x2
FBQ71C8VEB					19,5	—	20	—	16,2	0,07	0,3	0,350	1,1
FHQ35BWV1B	x2				19,7	—	20	—	16,2	0,07	0,3	0.062x2	0.6x2
FHQG71CVEB					19,2	—	20	—	16,2	0,07	0,3	0,091	0,8
FAQ71CVEB					18,7	—	20	—	16,2	0,07	0,3	0,048	0,4
FVQ71CVEB					18,9	—	20	—	16,2	0,07	0,3	0,117	0,6
FFQ35C2VEB	x2				19,2	—	20	—	16,2	0,07	0,3	0.050x2	0.4x2
FDXS35F2VEB	x2				18,9	—	20	—	16,2	0,07	0,3	0.034x2	0.3x2
FUQ71CVEB					19,2	—	20	—	16,2	0,07	0,3	0,046	0,9
FHQ35CAVEB	x2				19,7	—	20	—	16,2	0,07	0,3	0.062x2	0.6x2
FHQ35CBVEB	x2				19,7	—	20	—	16,2	0,07	0,3	0.062x2	0.6x2
FHQ71CAVEB					19,2	—	20	—	16,2	0,07	0,3	0,091	0,8
FHQ71CBVEB					19,2	—	20	—	16,2	0,07	0,3	0,091	0,8

SYMBOLS

- MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

- RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27,0°CDB/19,0°CWB
Outdoor temperature 35,0°CDB
Heating
Indoor temperature 20,0°CDB
Outdoor temperature 7,0°CDB / 6,0°CWB
- TOCA means the total value of each OC set.
- Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- Maximum allowable voltage variation between phases is 2%.
- MCA represents maximum input current. MFA represents capacity which may accept MCA.
(next lower standard fuse rating, min.15A)
- Select wire size based on the larger value of MCA or TOCA.
- MFA is used to select the circuit breaker and the ground fault circuit interrupter.
(earth leakage circuit breaker)

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RZQSG125-140L9V1

								Compressor		OFM		IFM				
Indoor		Outdoor		Power supply		Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQHG125FVEB		RZQSG125L9V1B		Minimum: 198 V Maximum 264 V		29,3	—	32	—	24,4	0,2	0,6	0,244	1,4		
FCQG35FVEB	x4	RZQSG125L9V1B				29,0	—	32	—	24,4	0,2	0,6	0,044x4	0,3x4		
FCQG50FVEB	x3	RZQSG125L9V1B				28,6	—	32	—	24,4	0,2	0,6	0,039x3	0,3x3		
FCQG60FVEB	x2	RZQSG125L9V1B				28,3	—	32	—	24,4	0,2	0,6	0,044x2	0,3x2		
FCQG125FVEB		RZQSG125L9V1B				28,8	—	32	—	24,4	0,2	0,6	0,168	1		
FFQ35C2VEB	x4	RZQSG125L9V1B				29,5	—	32	—	24,4	0,2	0,6	0,05x4	0,4x4		
FFQ50C2VEB	x3	RZQSG125L9V1B				29,0	—	32	—	24,4	0,2	0,6	0,05x3	0,4x3		
FFQ60C2VEB	x2	RZQSG125L9V1B				29,0	—	32	—	24,4	0,2	0,6	0,05x2	0,6x2		
FDXS35F2VEB	x4	RZQSG125L9V1B				29,0	—	32	—	24,4	0,2	0,6	0,034x4	0,3x4		
FDXS50F2VEB9	x3	RZQSG125L9V1B				29,4	—	32	—	24,4	0,2	0,6	0,06x3	0,5x3		
FDXS60F2VEB	x2	RZQSG125L9V1B				28,8	—	32	—	24,4	0,2	0,6	0,060x2	0,5x2		
FBQ35C8VEB	x4	RZQSG125L9V1B				33,5	—	40	—	24,4	0,2	0,6	0,140x4	1,2x4		
FBQ50C8VEB	x3	RZQSG125L9V1B				32,0	—	40	—	24,4	0,2	0,6	0,140x3	1,2x3		
FBQ60C8VEB	x2	RZQSG125L9V1B				30,3	—	32	—	24,4	0,2	0,6	0,350x2	1,1x2		
FBQ125C8VEB		RZQSG125L9V1B				30,1	—	32	—	24,4	0,2	0,6	0,350	2,1		
FDQ125C7VEB		RZQSG125L9V1B				30,1	—	32	—	24,4	0,2	0,6	0,350	2,1		
FVQ125C8VEB		RZQSG125L9V1B				29,0	—	32	—	24,4	0,2	0,6	0,238	1,2		
FHQ35C8VEB	x4	RZQSG125L9V1B				30,5	—	32	—	24,4	0,2	0,6	0,060x4	0,6 x 4		
FHQ50C8VEB	x3	RZQSG125L9V1B				29,8	—	32	—	24,4	0,2	0,6	0,060x3	0,6 x 3		
FHQ60C8VEB	x2	RZQSG125L9V1B				29	—	32	—	24,4	0,2	0,6	0,091x2	0,6 x 2		
FHQ125C8VEB		RZQSG125L9V1B				29,4	—	32	—	24,4	0,2	0,6	0,15	1,5		
FUQ125C8VEB		RZQSG125L9V1B				29,3	—	32	—	24,4	0,2	0,6	0,106	1,4		
FCQHG71FVEB	x2	RZQSG140L9V1B		Minimum: 198 V Maximum 264 V		28,75	—	32	—	24,2	0,094+0,094	0,4+0,4	0,091x2	0,5x2		
FCQHG140FVEB		RZQSG140L9V1B				29,25	—	32	—	24,2	0,094+0,094	0,4+0,4	0,244	1,4		
FCQG35FVEB	x4	RZQSG140L9V1B				29	—	32	—	24,2	0,094+0,094	0,4+0,4	0,044x4	0,3x4		
FCQG50FVEB	x3	RZQSG140L9V1B				28,625	—	32	—	24,2	0,094+0,094	0,4+0,4	0,039x3	0,3x3		
FCQG71FVEB	x2	RZQSG140L9V1B				28,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,054x2	0,4x2		
FCQG140FVEB		RZQSG140L9V1B				28,75	—	32	—	24,2	0,094+0,094	0,4+0,4	0,168	1		
FFQ35C2VEB	x4	RZQSG140L9V1B				29,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,05x4	0,4x4		
FFQ50C2VEB	x3	RZQSG140L9V1B				29	—	32	—	24,2	0,094+0,094	0,4+0,4	0,05x3	0,4x3		
FDXS35F2VEB	x4	RZQSG140L9V1B				29	—	32	—	24,2	0,094+0,094	0,4+0,4	0,034x4	0,3x4		
FDXS50F2VEB9	x3	RZQSG140L9V1B				29,375	—	32	—	24,2	0,094+0,094	0,4+0,4	0,06x3	0,5x3		
FBQ35C8VEB	x4	RZQSG140L9V1B				33,5	—	40	—	24,2	0,094+0,094	0,4+0,4	0,140x4	1,2x4		
FBQ50C8VEB	x3	RZQSG140L9V1B				32	—	40	—	24,2	0,094+0,094	0,4+0,4	0,140x3	1,2x3		
FBQ71C8VEB	x2	RZQSG140L9V1B				30,25	—	32	—	24,2	0,094+0,094	0,4+0,4	0,350x2	1,1x2		
FBQ140C8VEB		RZQSG140L9V1B				30,125	—	32	—	24,2	0,094+0,094	0,4+0,4	0,35	2,1		
FAQ71C8VEB9	x2	RZQSG140L9V1B				28,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2		
FVQ140C8VEB		RZQSG140L9V1B				29,25	—	32	—	24,2	0,094+0,094	0,4+0,4	0,276	1,4		
FHQ35C8VEB	x4	RZQSG140L9V1B				30,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,060 x 4	0,6 x 4		
FHQ50C8VEB	x3	RZQSG140L9V1B				29,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,060 x 3	0,6 x 3		
FHQ71C8VEB	x2	RZQSG140L9V1B				29,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,091 x 2	0,8 x 2		
FHQ140C8VEB		RZQSG140L9V1B				29,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,15	1,8		
FUQ71C8VEB	x2	RZQSG140L9V1B				29,8	—	32	—	24,2	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]

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Notes

- 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
- TOCA is the total value of each overcurrent set.
- 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.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- 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.
- Select the wire size according to the MCA.
- MFA is used to select the circuit breaker and the ground fault circuit interruptor.
 Earth leakage circuit breaker

3 Electrical data

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RZQSG125-140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ60D2VEB	RZQSG125L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	29	32	–	24,4	0,2	0,6	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG125L9V1B				29,8	32	–	24,4	0,2	0,6	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG125L9V1B				30,4	32	–	24,4	0,2	0,6	4x0.089	4x0.6
FBQ140D2VEB	RZQSG140L9V1B				29,5	32	74	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQSG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG140L9V1B				30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

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

Symbols

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

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4 Options

4 - 1 Options

RZQSG71L3V1

Available options for RZQSG models:

Name of option		Kit name
		RZQSG71L3V1
Bottom plate heater		-
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T): See note 2
Demand adapter kit		KRP58M51

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5 Combination table

5 - 1 Combination Table

RZQSG71L3V1

Multi Combination Possibilities:

# = Pair	71	100	125	140
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

SKY-AIR	H cassette				Thin cassette				2x2 cassette				Duct (medium ESP)				4way ceiling		Wall mounted		Rip (P+ut		Floor standing		Ceiling suspended				Slim Duct			
Model name	FOQK21F1MB	FOQK100F1MB	FOQK125F1MB	FOQK140F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB	FOQ335F1MB		
RZQSG71L3V1B	P				2					P															2							2

NOTES

- 1 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
- 2 When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.
- 3 See the option list for the selection of the refnet kits that are necessary to install the combinations:

Twin:KHRQ22M20TA orKHRQ58T

Triple:KHRQ127H orKHRQ58H

Double twin:KHRQ22M20TA orKHRQ58T

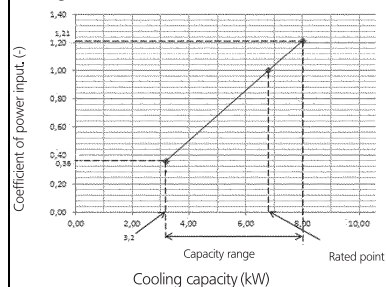
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6 Capacity tables

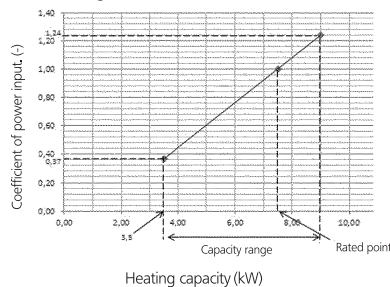
6 - 1 Cooling/Heating Capacity Tables

RZQSG71L3V1

Cooling



Heating



SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Maximum Total cooling (heating) capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
CPI:	(comp.+indoor and outdoor fan motor)	
	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW.

Cooling

Indoor		Outdoor temp. (°CDB)											
		25			30			35			40		
°CWB	°CDB	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	7.28	4.95	0.92	7.28	4.99	1.08	7.50	5.21	1.20	7.20	5.06	1.32
18.0	25	8.37	5.43	1.00	8.11	5.32	1.11	7.83	5.19	1.21	7.52	5.04	1.34
19.0	27	8.64	5.41	1.01	8.28	5.31	1.11	8.00	5.18	1.21	7.68	5.03	1.34
19.5	27	8.63	5.40	1.01	8.37	5.30	1.11	8.08	5.17	1.21	7.76	5.03	1.34
22.0	30	9.07	5.33	1.03	8.80	5.23	1.12	8.51	5.12	1.22	8.18	4.97	1.35
24.0	32	9.43	5.25	1.03	9.15	5.16	1.13	8.85	5.05	1.23	8.61	4.90	1.36

Heating

Indoor		outdoor temperature (°CWB)																	
		-15.0			-10.0			-5.0			0.0			5.0			10.0		
°CDB		TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)		
16	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13							
18	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18							
20	5.13	0.95	5.67	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23							
21	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25							
22	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28							
24	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32							

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NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark ○ show the max. at standard conditions.
- On the figure the mark □ show rated capacity and rated coefficient of power input. However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.
- SHC for other dry bulb temp. = SHC + SHC*.
- SHC* = SHC correction for other dry bulb.
- SHC* = 0.02 x AFR (m³/min.) x (1-BF) x (DB-EDB)
- Capacities are based on following conditions:
outdoor air : 85 % RH, however, the condition on nominal capacity is 7° CDB/6° CWB
Corresponding refrigerant piping length: 0.5m
Level difference: 0m
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are tabulated below.

(Pair)		FCQHG71F	FCQG71F	FBQ71D	FHQG71C	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
AFR	(BF)	21.2	21.5	18	20.5	18	18	20.5	23.0
		(0.2)	(0.14)	(0.13)	(0.13)	(0.16)	(0.16)	(0.13)	(0.24)

NOTES

- Rated power input of each model is tabulated below.

(Pair)

	FCQHG71F	FCQG71F	FBQ71D	FHQG71C	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
Cooling	1.94	2.12	1.98	1.97	2.12	2.12	1.97	2.12
Heating	1.83	2.08	1.91	1.88	2.08	2.08	1.88	2.08

(Twin)

	FCQG35F x 2	FCQ35 x 2	FBQ35D x 2	FHQ35BW x 2	FHQ35CA x 2	FCQ35C2 x 2	FDX35F2 x 2	FNQ35A2 x 2
Cooling	2.28	2.30	2.90	2.51	2.47	2.29	2.31	2.16
Heating	2.37	2.32	2.12	2.78	2.70	2.31	2.39	2.39

(Twin)

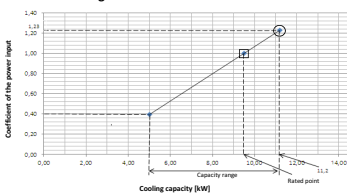
	FCQG35F x 2	FCQ35 x 2	FBQ35D x 2	FHQ35BW x 2	FHQ35CA x 2	FCQ35C2 x 2	FDX35F2 x 2	FNQ35A2 x 2
AFR	12.5 x 2	10 x 2	15 x 2	13 x 2	14 x 2	10 x 2	8.7 x 2	8.7 x 2
(BF)	(0.4 x 2)	(0.25 x 2)	(0.08 x 2)	(0.20 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.17 x 2)

6 Capacity tables

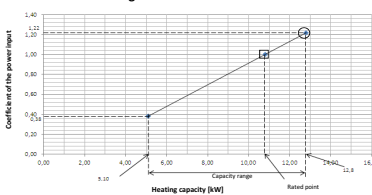
6 - 1 Cooling/Heating Capacity Tables

RZQSG100L(8)Y1 RZQSG100L9Y1

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		Outdoor temperature (°C DB)											
		25			30			35			40		
Indoor		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°C WB	°C DB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	11.2	7.61	1.01	10.8	7.44	1.11	10.5	7.29	1.22	10.1	7.09	1.33
18.0	25	11.9	7.59	1.01	11.4	7.49	1.12	11.0	7.27	1.23	10.5	7.09	1.33
19.0	27	12.0	7.57	1.02	11.6	7.44	1.12	11.2	7.26	1.23	10.8	7.04	1.33
19.5	27	12.1	7.59	1.02	11.7	7.37	1.13	11.4	7.34	1.23	10.9	7.04	1.34
22.0	30	12.8	7.52	1.02	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.03	1.35
24.0	32	13.3	7.42	1.03	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Heating		Outdoor temperature (°C WB)											
		-15.0			-10.0			-5.0			0.0		
Indoor		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	kW	—	—	—	—	—	—	—	—	—	—	—	—
16	8.89	0.93	0.95	0.99	1.01	1.02	1.04	1.06	1.08	1.12	1.13	1.18	1.18
18	8.87	0.97	0.94	1.02	1.00	1.07	1.03	1.10	1.09	1.17	1.18	1.22	1.22
20	8.86	1.01	0.93	1.07	1.00	1.11	1.03	1.14	1.12	1.22	1.18	1.28	1.28
21	8.86	1.03	0.92	1.09	1.00	1.13	1.03	1.16	1.12	1.24	1.18	1.30	1.30
22	8.86	1.04	0.92	1.10	1.00	1.14	1.03	1.18	1.22	1.26	1.18	1.33	1.33
24	8.84	1.09	0.91	1.15	1.00	1.19	1.03	1.23	1.28	1.31	1.18	1.38	1.38

- Notes
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - 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)
 - 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
 - CPI is a percentage value compared to the rated value which is 1.00.
 - The error rate for this value is less than 5% and depends on the indoor unit type.
 - The heating performance takes into account the drop that occurs during defrost operation.
 - 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	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	32.3	32.0	32.0	30.0	28.0	28.0	29.0	31.0
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.10)	(0.20)	(0.09)	(0.20)

Twin	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	12.6 x 2	16 x 2	15 x 2	12 x 2	16 x 2	18 x 2	16 x 2
(BF)	(0.22 x 2)	(0.16 x 2)	(0.18 x 2)	(0.11 x 2)	(0.13 x 2)	(0.11 x 2)	(0.11 x 2)

Triple	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	12.5 x 3	16 x 3	14 x 3	10 x 3	8.7 x 3	15 x 3	8.7 x 3
(BF)	(0.4 x 3)	(0.15 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.08 x 3)	(0.17 x 3)

Pair	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	2.57	2.88	2.87	2.96	3.16	2.96	2.96	2.84
Heating	2.51	3.05	2.96	2.99	3.17	2.99	2.99	2.94

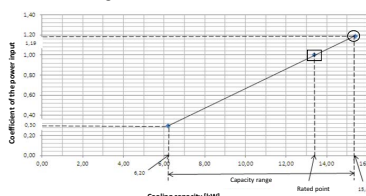
Twin	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	2.76	2.93	3.35	3.33	3.35	3.30	3.35
Heating	2.61	2.86	3.28	3.34	3.31	3.27	3.31

Triple	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	2.82	2.93	3.33	2.88	3.71	2.90	3.71
Heating	2.66	2.86	3.26	3.04	4.06	3.24	4.06

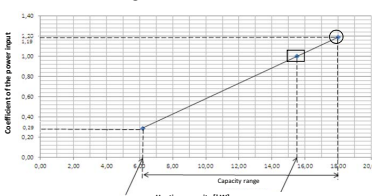
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RZQSG140L9V1 RZQSG140LY1

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		Outdoor temperature (°C DB)											
		25			30			35			40		
Indoor		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°C WB	°C DB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.03	1.18	13.9	9.69	1.28
18.0	25	16.2	10.55	0.98	15.6	10.21	1.09	15.1	10.01	1.19	14.5	9.71	1.30
19.0	27	16.6	10.43	0.99	16.0	10.18	1.09	15.4	9.98	1.19	14.8	9.76	1.30
19.5	27	16.7	10.49	0.99	16.1	10.15	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.83	1.21	15.8	9.60	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47	1.32

Heating		Outdoor temperature (°C WB)											
		-15.0			-10.0			-5.0			0.0		
Indoor		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	kW	—	—	—	—	—	—	—	—	—	—	—	—
16	11.6	0.91	0.97	1.00	1.03	1.06	1.04	1.09	1.07	1.10	1.07	1.14	1.16
18	11.6	0.95	0.92	1.04	1.00	1.06	1.04	1.09	1.07	1.10	1.07	1.14	1.16
20	11.6	0.99	0.92	1.06	1.00	1.06	1.04	1.09	1.07	1.10	1.07	1.14	1.16
21	11.5	1.00	0.92	1.06	1.00	1.06	1.04	1.09	1.07	1.10	1.07	1.14	1.16
22	11.5	1.02	0.92	1.06	1.00	1.06	1.04	1.09	1.07	1.10	1.07	1.14	1.16
24	11.5	1.07	0.92	1.06	1.00	1.06	1.04	1.09	1.07	1.10	1.07	1.14	1.16

- Notes
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - 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)
 - 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
 - CPI is a percentage value compared to the rated value which is 1.00.
 - The error rate for this value is less than 5% and depends on the indoor unit type.
 - The heating performance takes into account the drop that occurs during defrost operation.
 - 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	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	33.5	33.0	33.0	30.0	30.0	30.0	30.0
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)	(0.06)

Twin	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	21.2 x 2	21.5 x 2	18.0 x 2	20.5 x 2	18.0 x 2	20.5 x 2	18 x 2
(BF)	(0.12 x 2)	(0.14 x 2)	(0.08 x 2)	(0.13 x 2)	(0.16 x 2)	(0.13 x 2)	(0.13 x 2)

Triple	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	12.6 x 3	16 x 3	15 x 3	12 x 3	12 x 3	12 x 3	12 x 3
(BF)	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.11 x 3)	(0.11 x 3)	(0.11 x 3)	(0.11 x 3)

Double twin	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
AFR	12.5 x 4	16 x 4	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	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	4.17	4.45	4.44	4.45	4.45	4.45	4.38
Heating	4.29	4.54	4.54	4.54	4.54	4.54	4.56

Twin	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	4.11	4.39	4.37	4.01	4.23	4.01	4.17
Heating	4.23	4.48	4.54	4.71	4.92	4.71	4.94

Triple	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	4.40	4.17	4.67	4.63	4.68	4.17	4.68
Heating	4.48	4.94	5.67	4.39	4.61	4.94	4.61

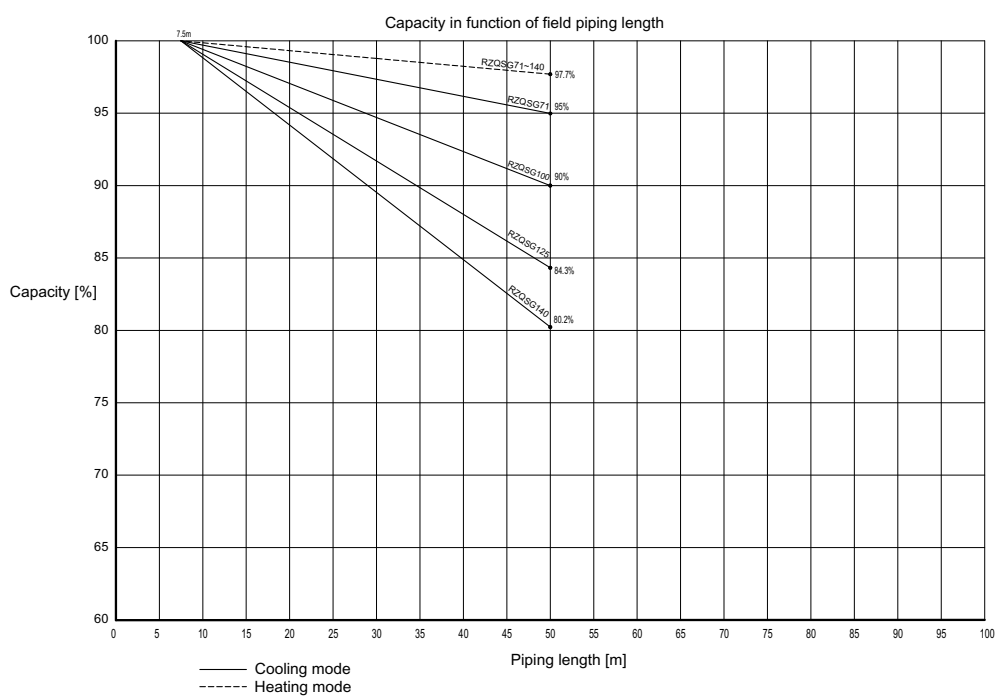
Double twin	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3	FCQ50HP K3
Cooling	4.56	4.17	4.65	4.51	5.80	4.17	5.80
Heating	4.54	4.94	5.57	4.05	6.09	4.94	6.09

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6 Capacity tables

6 - 2 Capacity Correction Factor

RZQSG100-140L9V1

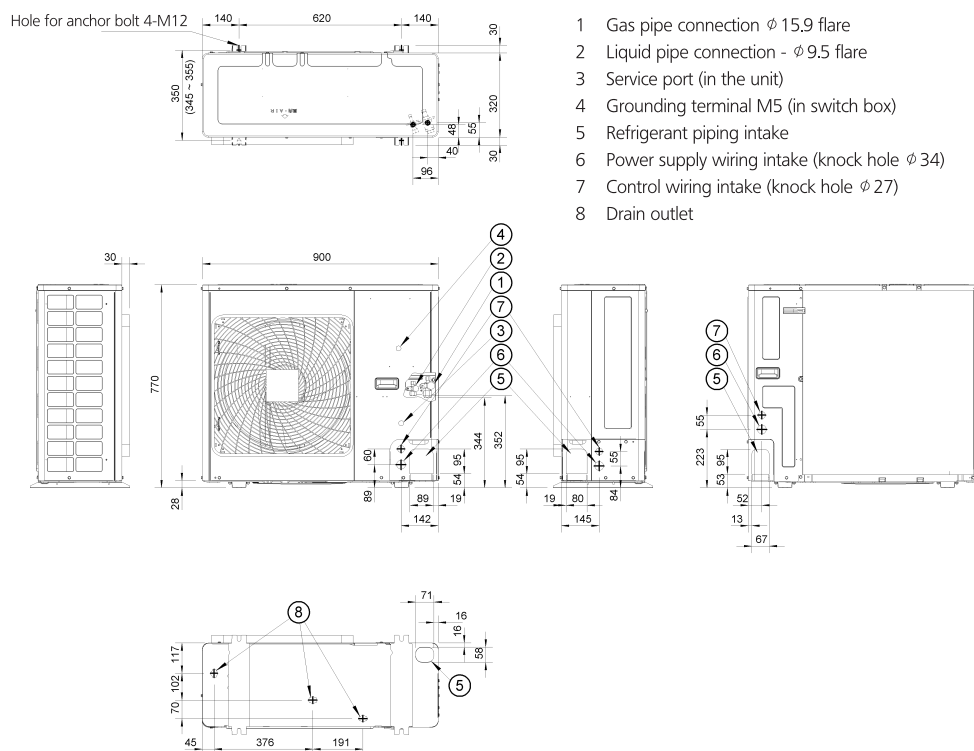


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7 Dimensional drawings

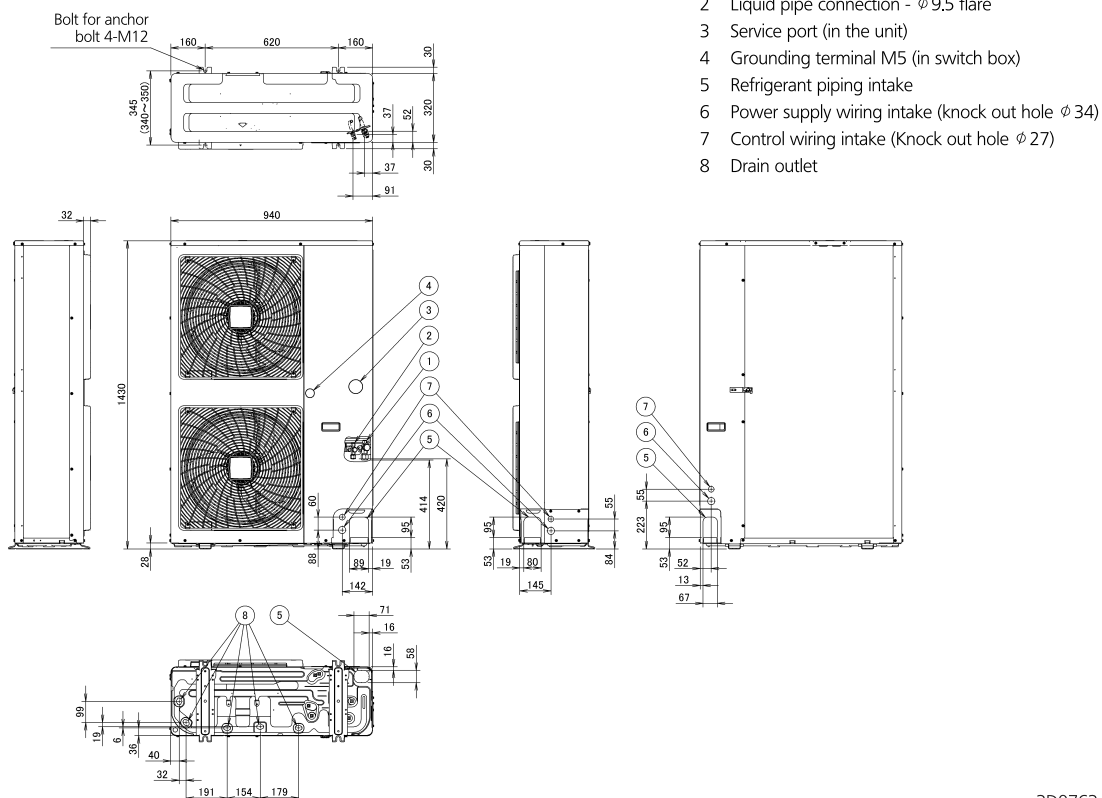
7 - 1 Dimensional Drawings

RZQSG71L3V1



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RZQSG140L9V1



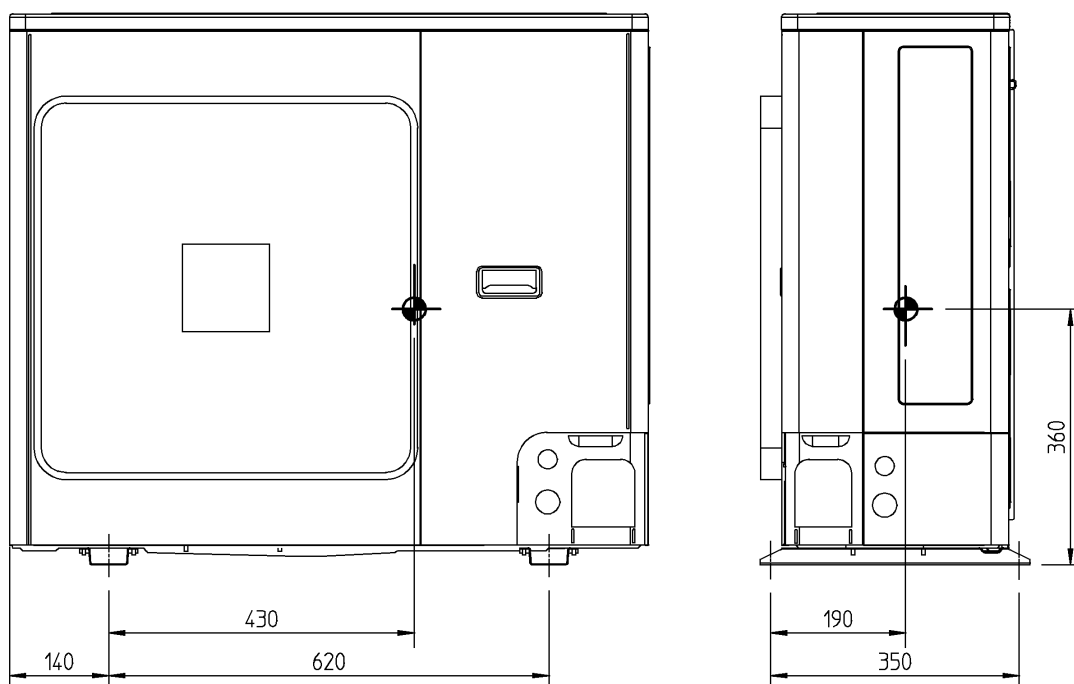
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8 Centre of gravity

8 - 1 Centre of Gravity

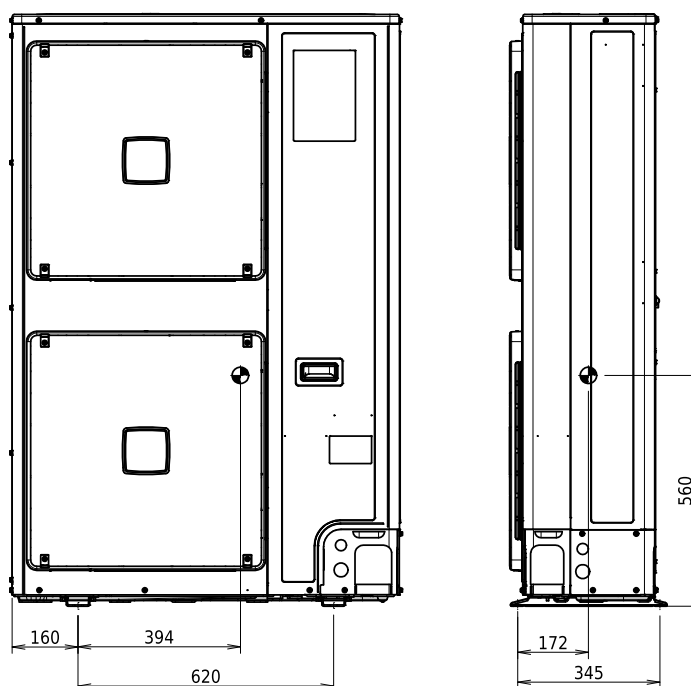
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RZQSG71L3V1



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RZQSG140L9V1

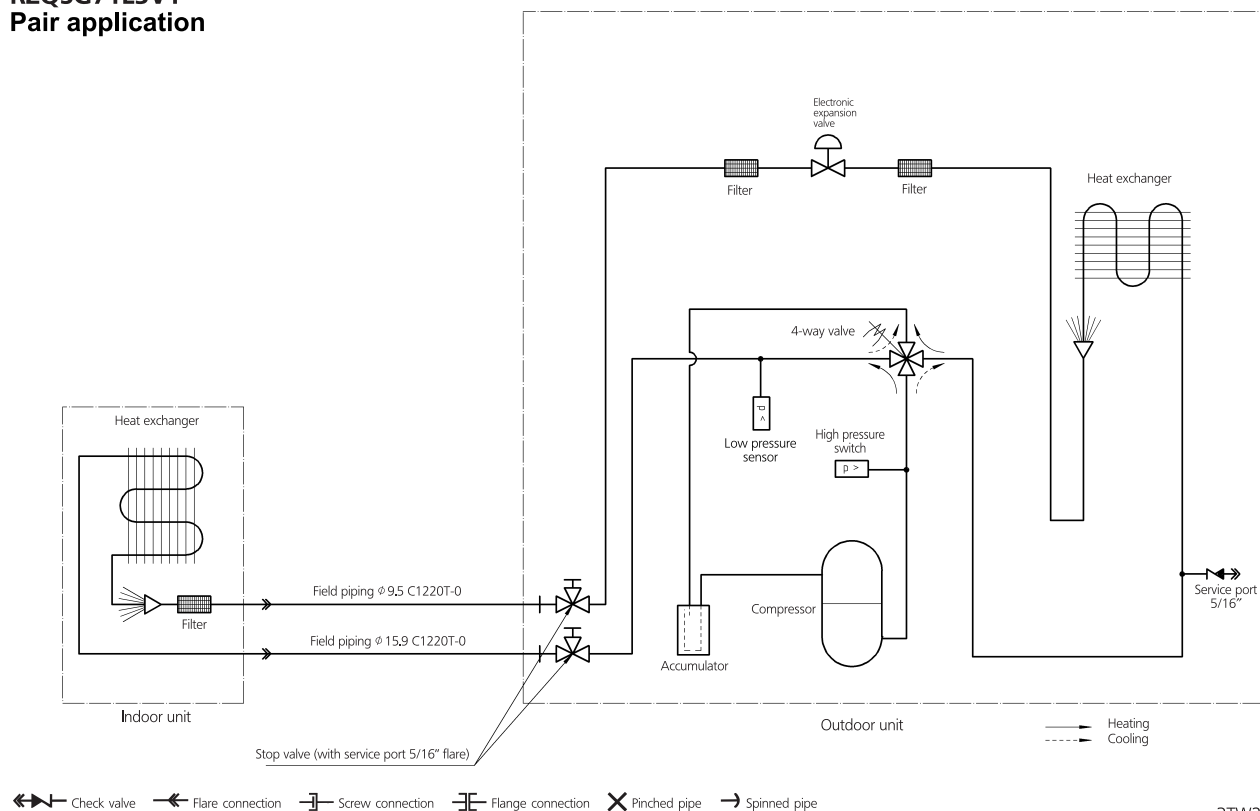


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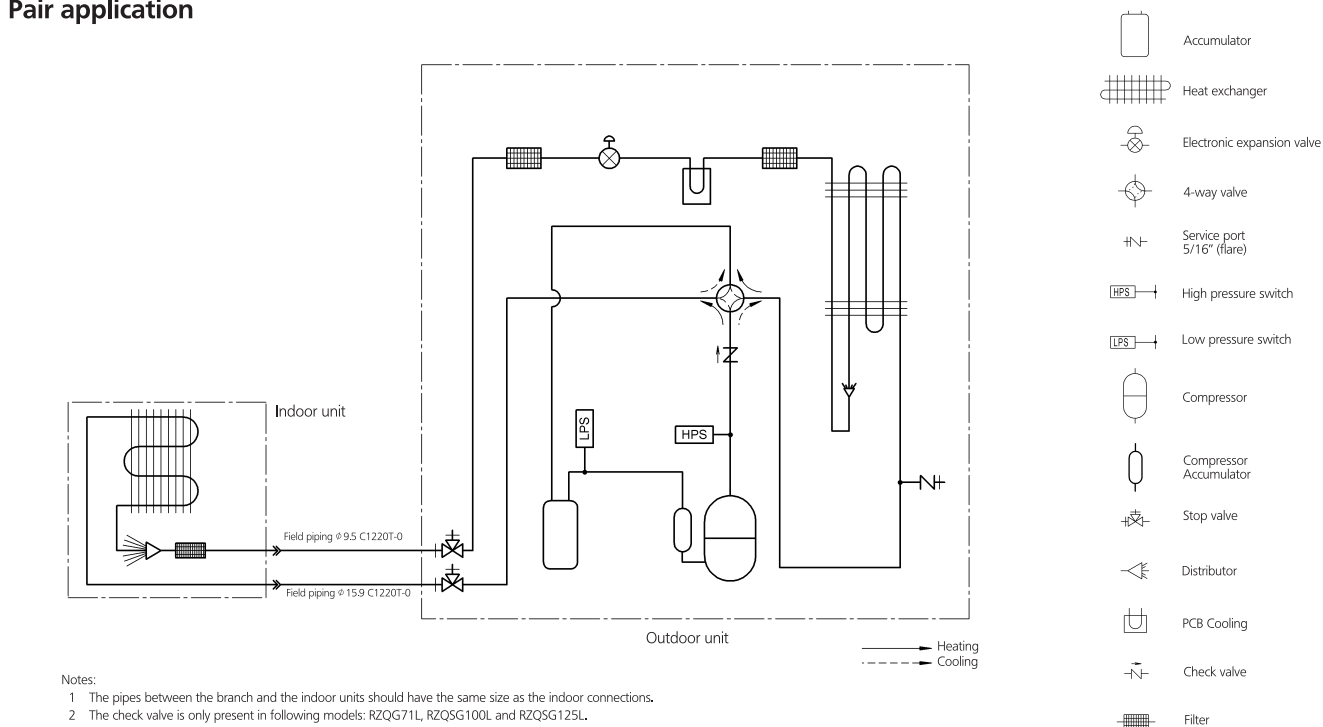
9 Piping diagrams

9 - 1 Piping Diagrams

RZQSG71L3V1 Pair application



RZQSG100-140L9V1 Pair application

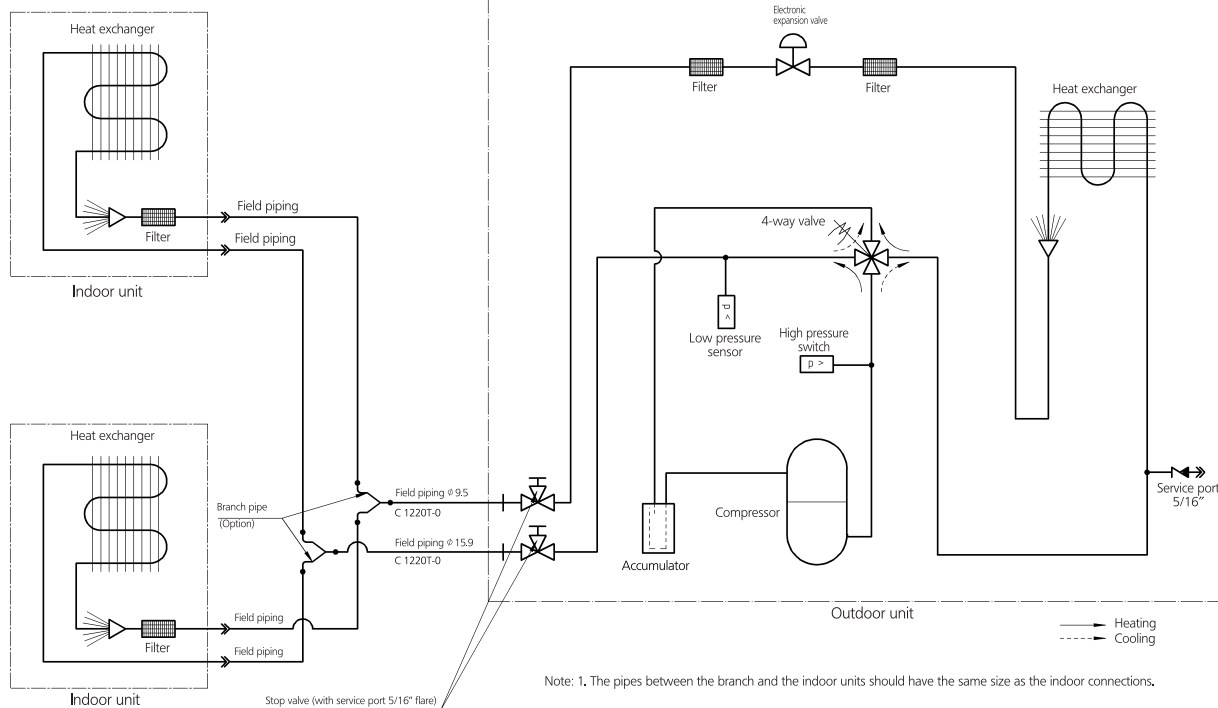


9 Piping diagrams

9 - 2 Piping Diagram Twin Application

9

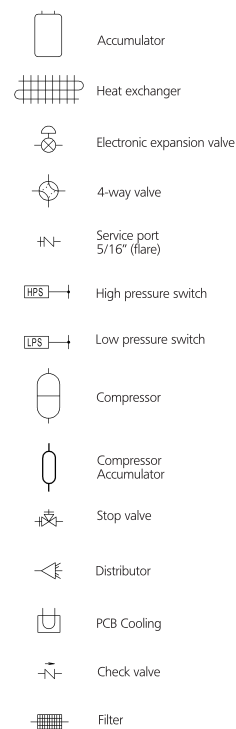
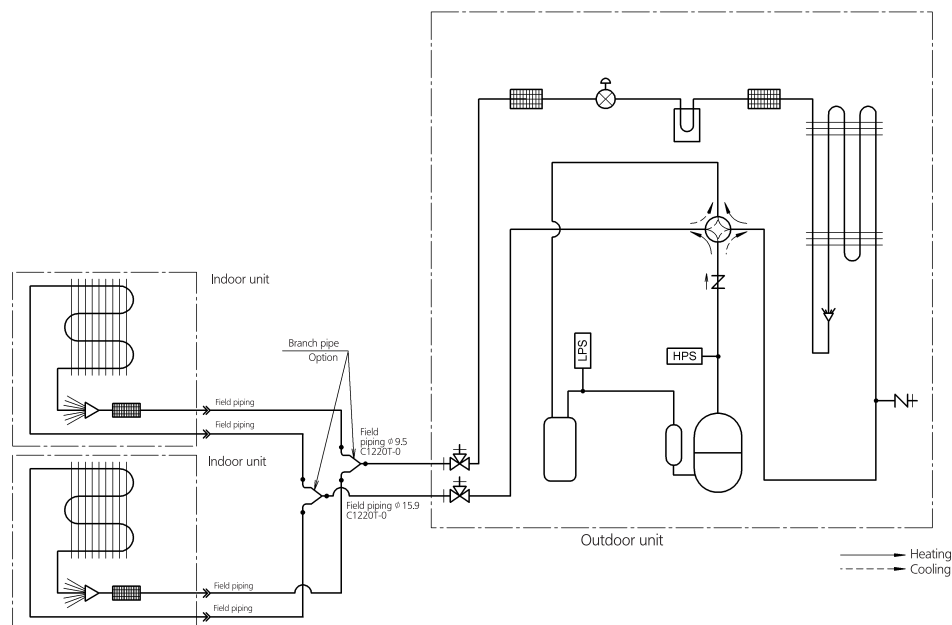
RZQSG71L3V1 Twin application



Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW29165-2

RZQSG100-140L9V1 Twin application



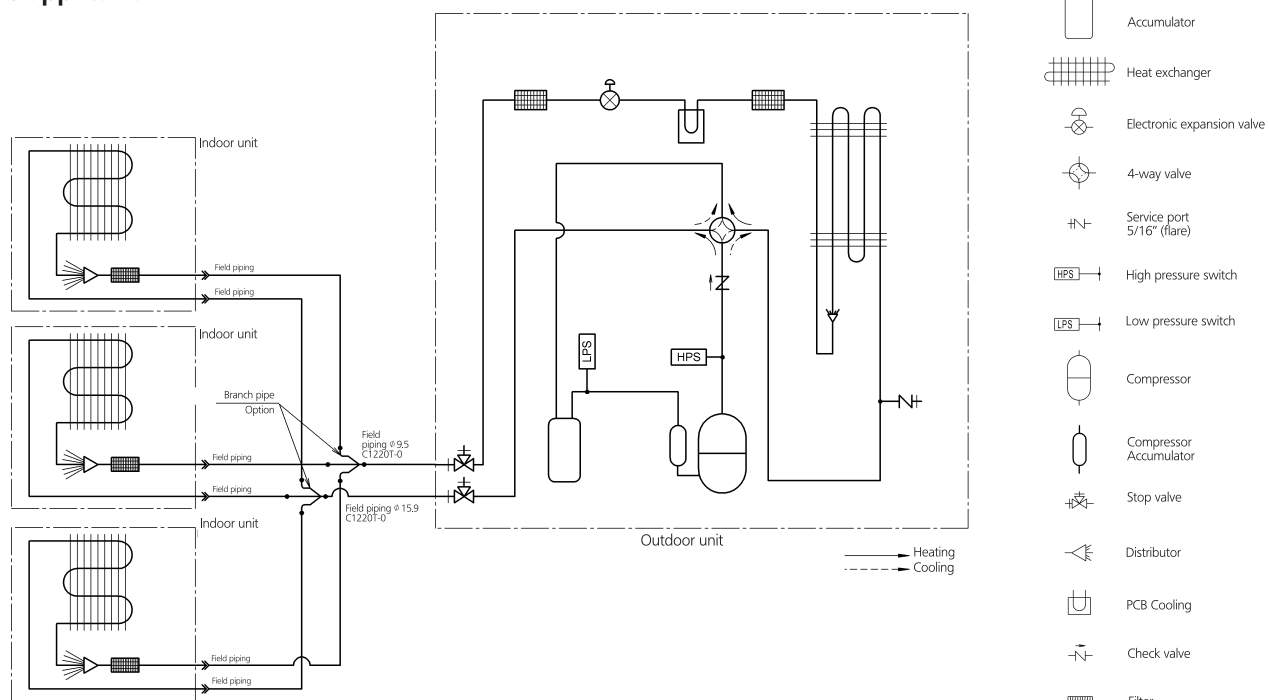
3D090341

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZQSG100-140L9V1

Triple application



Notes:

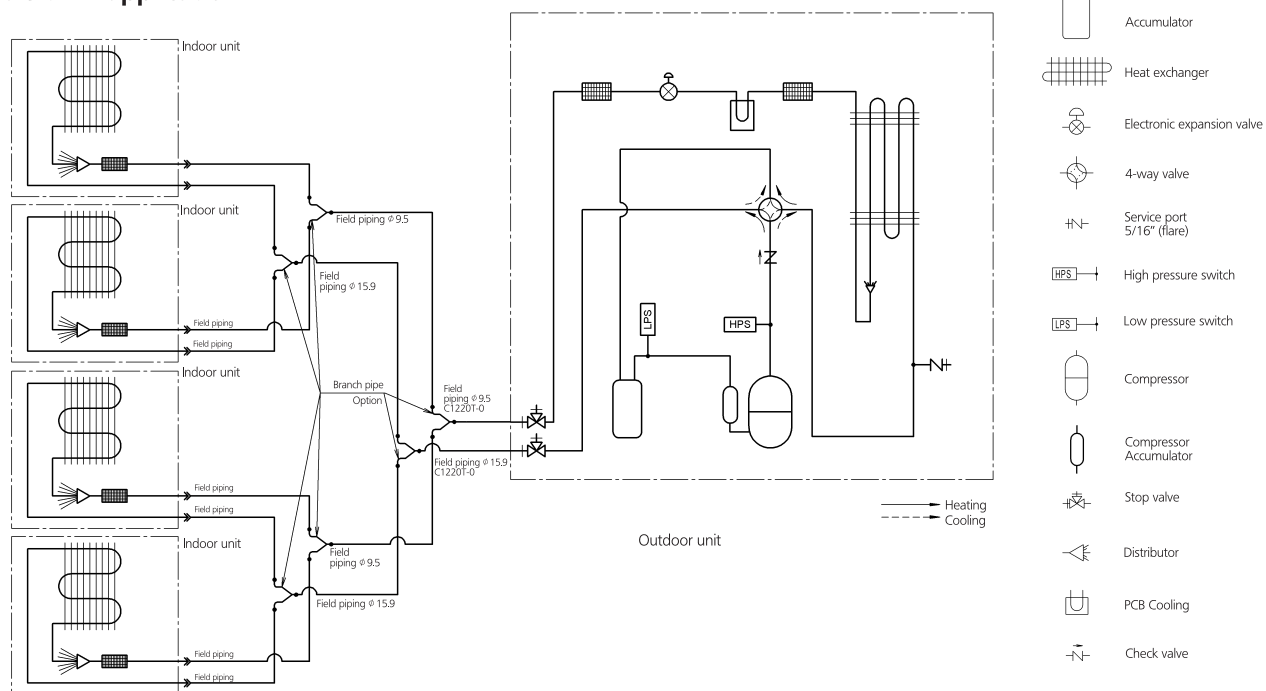
- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
- 2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

3D090342

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZQSG125-140L9V1 Double twin application

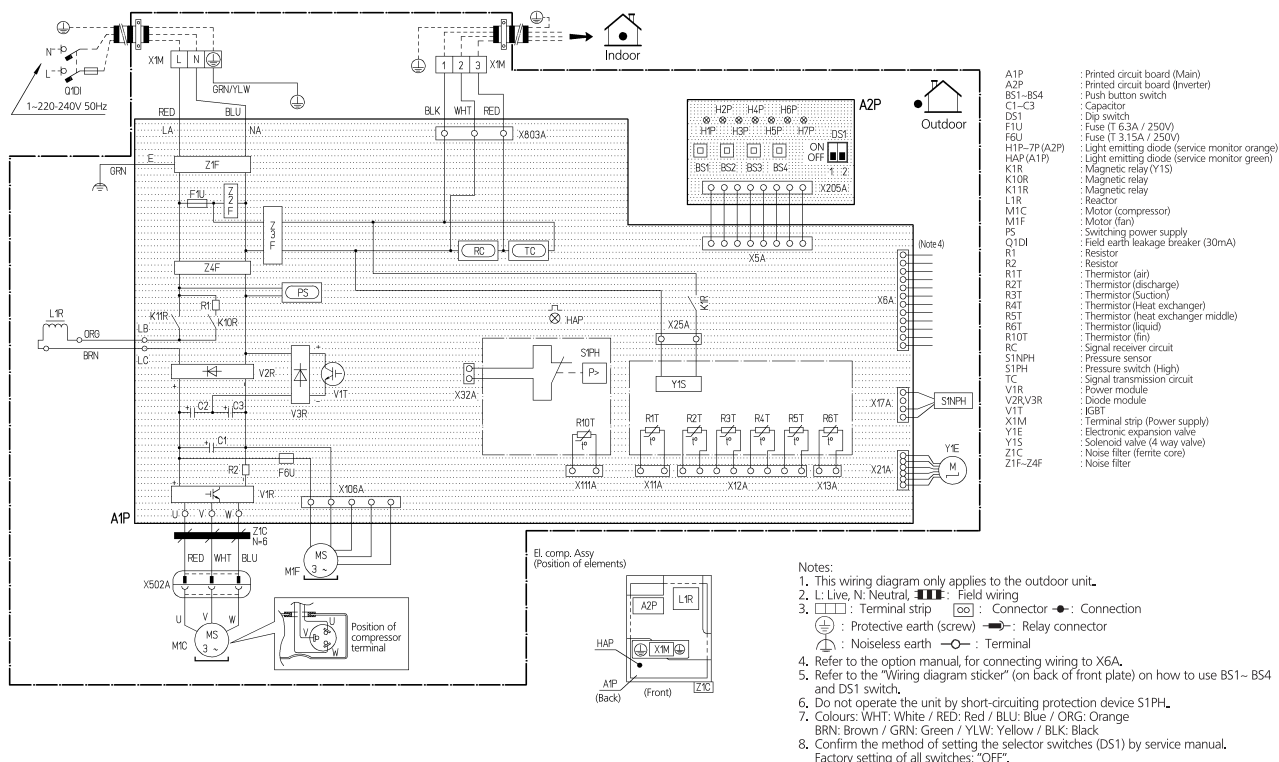


Notes:

- 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: RZQSG100L and RZQSG125L.

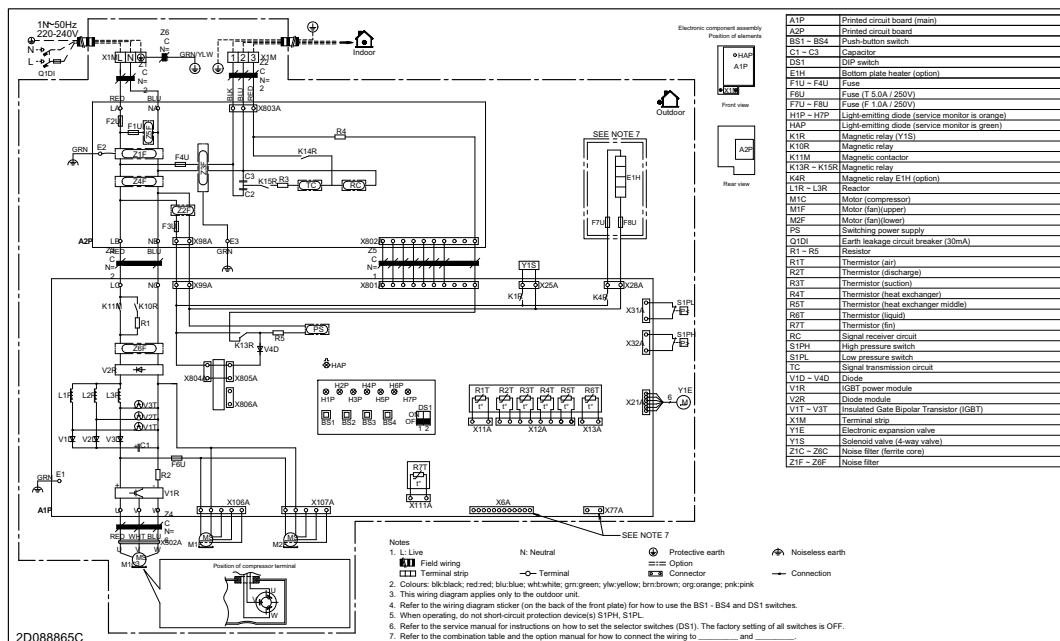
3D090343

RZQSG71L3V1



2TW30466-1B

RZQSG140L9V1



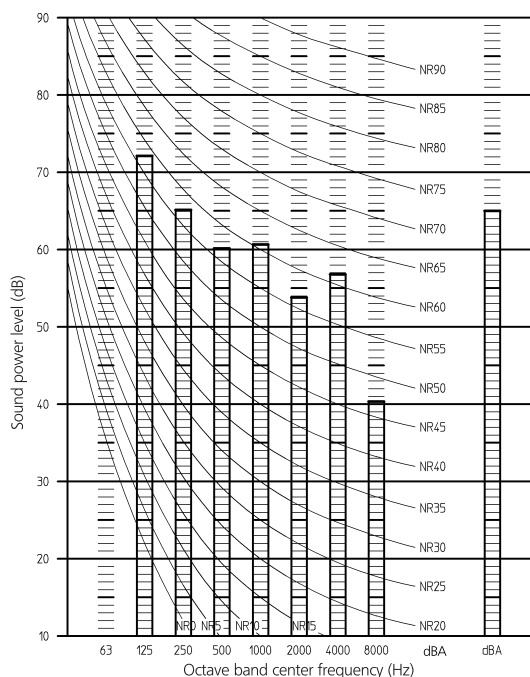
2D088865C

11 Sound data

11 - 1 Sound Power Spectrum

11

RZQSG71L3V1

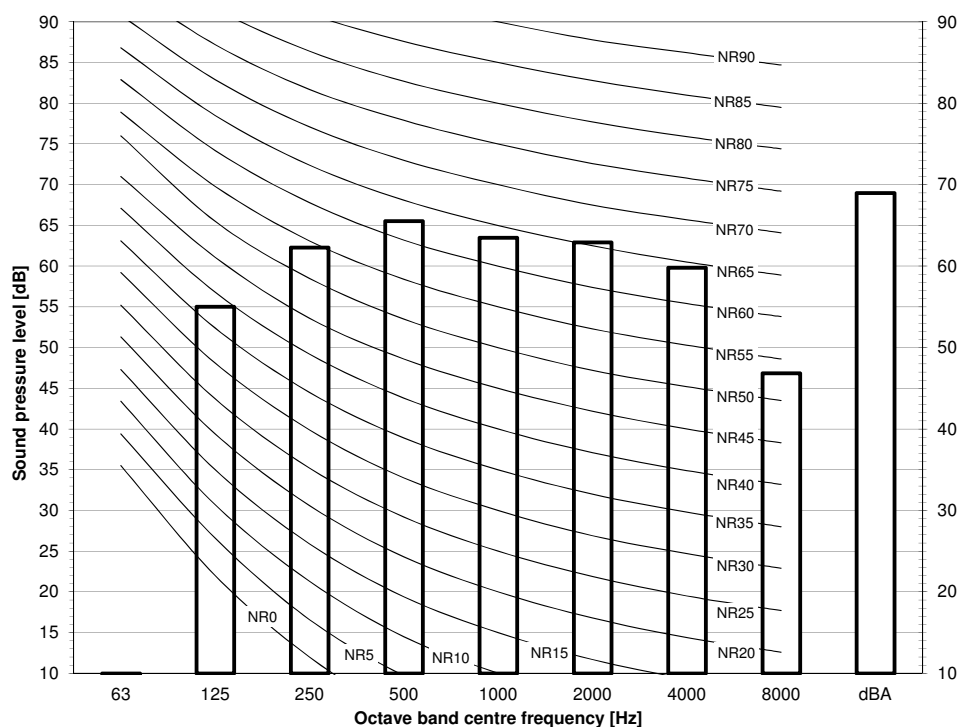


NOTES

- 1 dB(A) = A-weighted sound power level (A-scale according to IEC)
- 2 Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- 3 Measured according ISO3744

3TW30467-3

RZQSG140L9V1



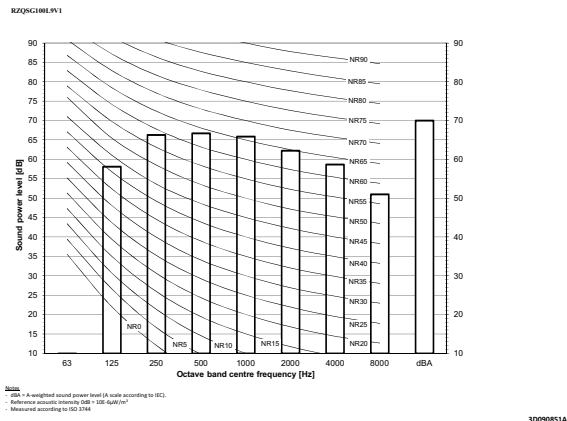
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Measured according to ISO 3744

3D090853

11 Sound data

11 - 2 Sound Pressure Spectrum

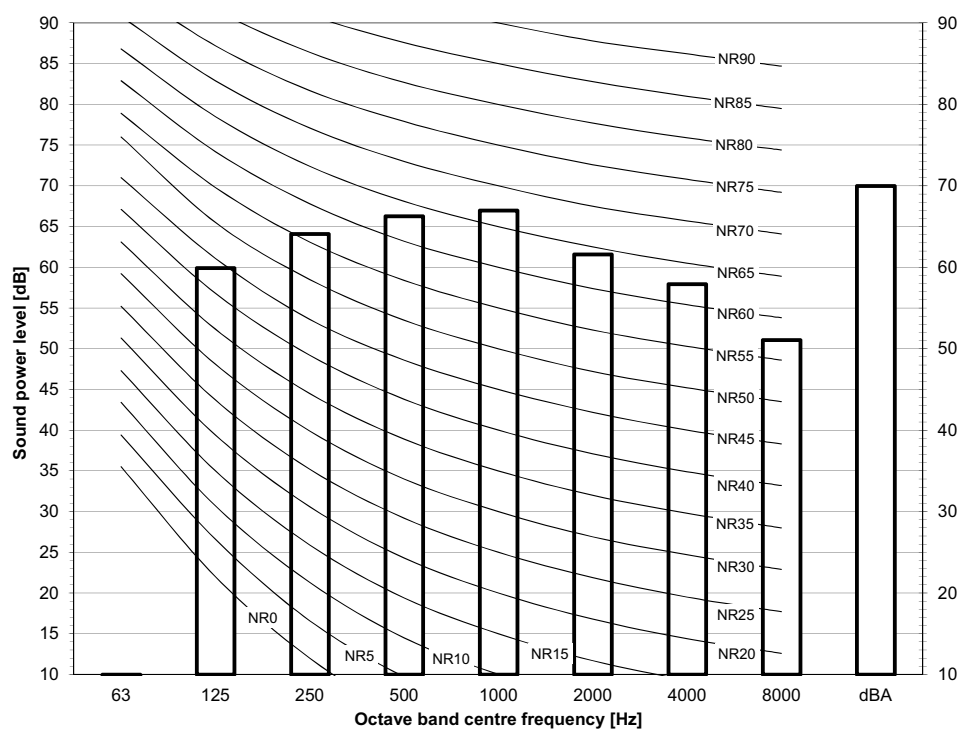


11 Sound data

11 - 2 Sound Pressure Spectrum

11

RZQSG125L9V1

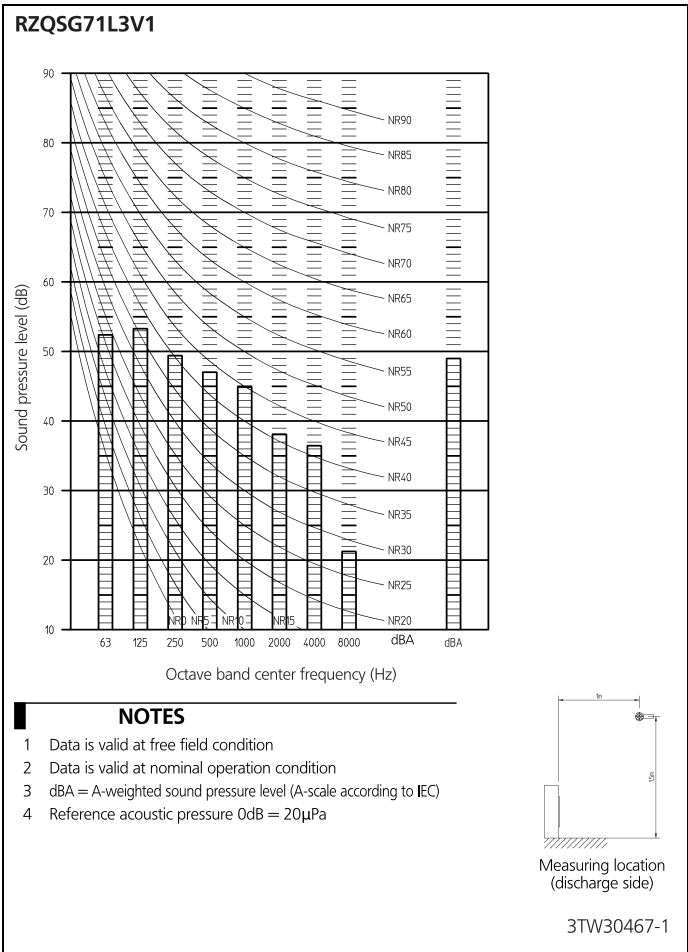


Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity $0 \text{ dB} = 10^{-6} \text{ W/m}^2$
 - Measured according to ISO 3744

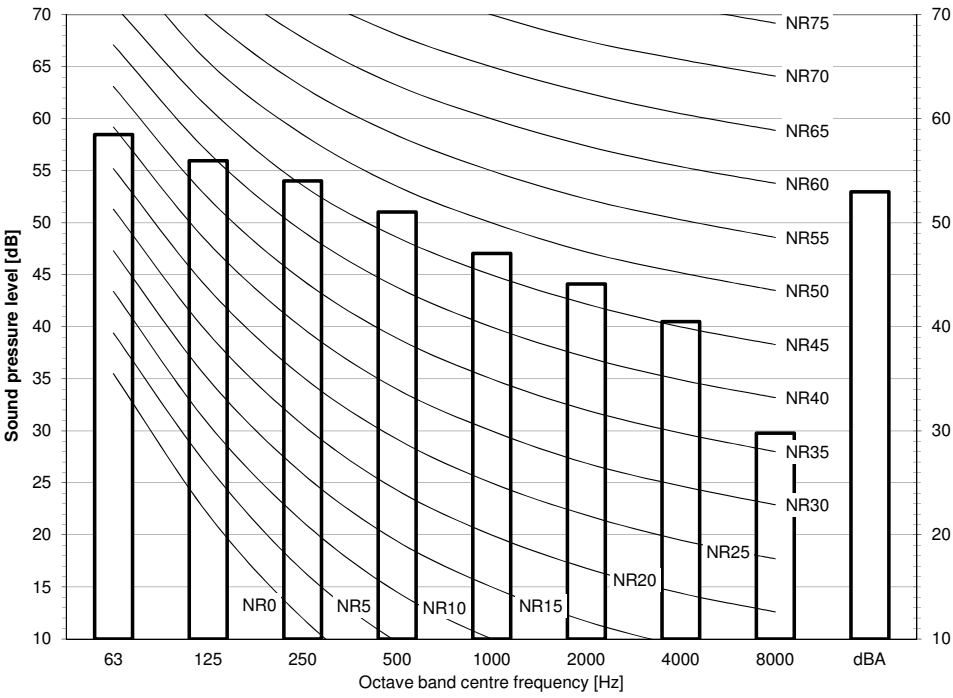
3D090852A

11 Sound data

11 - 3 Sound Pressure Spectrum - Cooling



RZQSG140L9V1



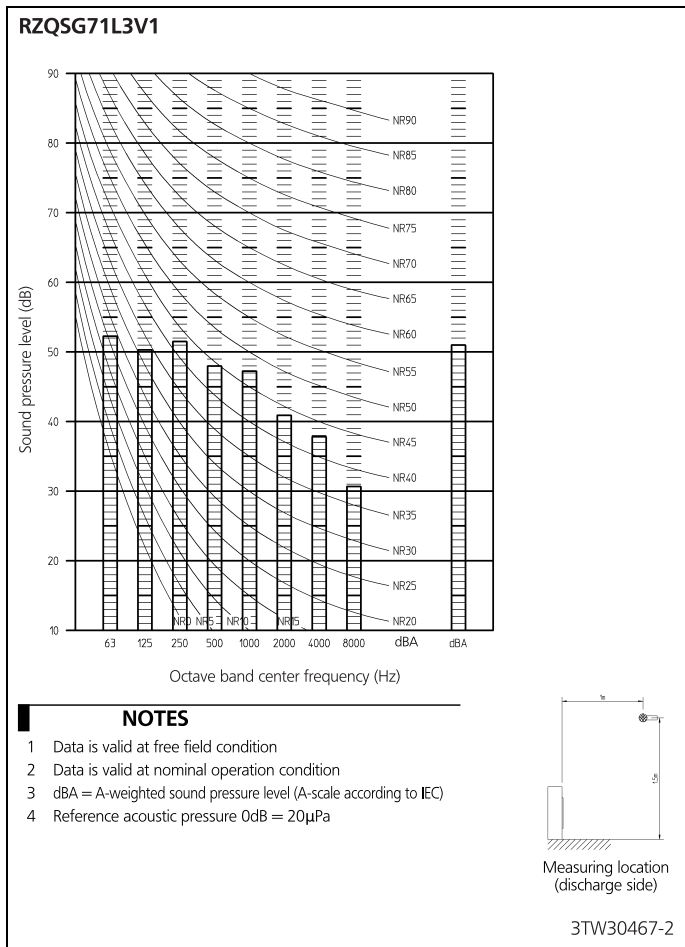
- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μPa

3D090883

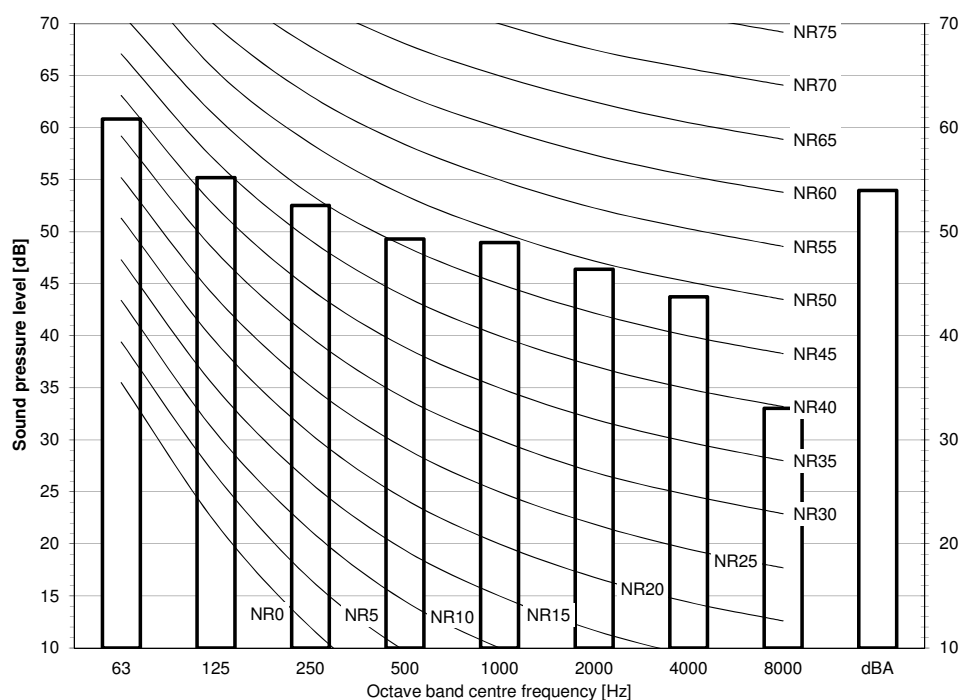
11 Sound data

11 - 4 Sound Pressure Spectrum - Heating

11



RZQSG140L9V1



Notes

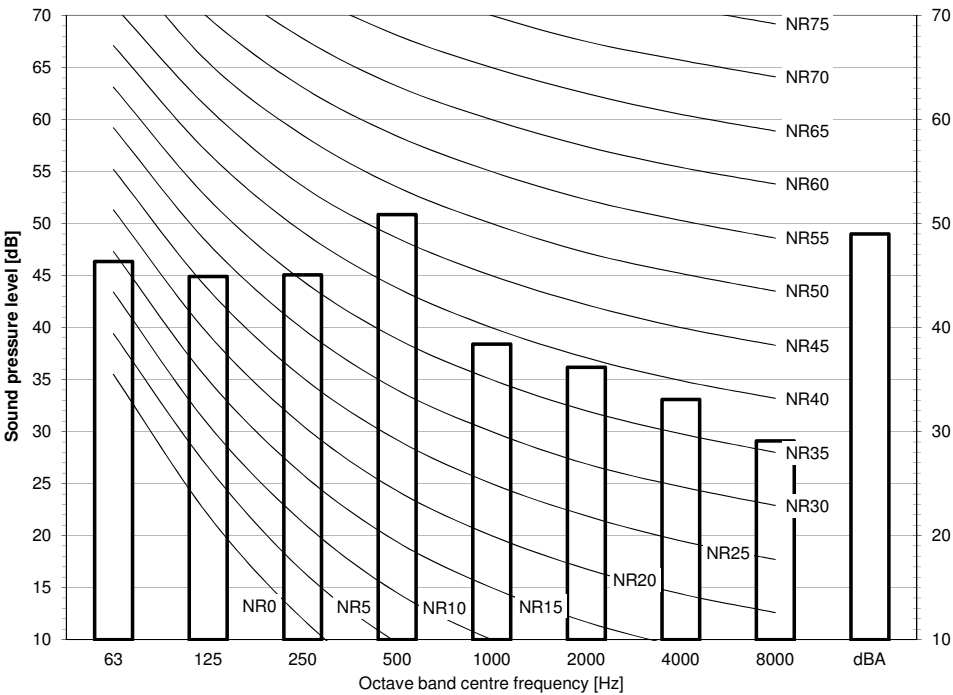
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa

3D090873

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode

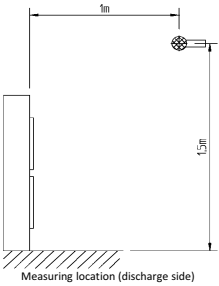
RZQSG140L9V1



Notes

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

3D090863



12 Installation

12 - 1 Installation Method

RZQSG71L3V1

A. Non stacked installation

Legend Unit: mm

	←	→	↖	↗		A	B1	B2	C	D1	D2	E	L1/L2
✓						≥50(100)							
✓			✓	✓		≥100	≥100		≥100				
✓					✓	≥100					≤500	≥1000	
✓			✓	✓	✓	≥150	≥150		≥150			≥1000	
	✓										≤500		≥1000
		✓								≥500			
✓	✓					L1<L2	≥50(100)			≥500			
				✓		L2<L1	≥50(100)			≥500			
					L1<L2	L1≤H	≥150(250)	≤500		≥1000		≥1000	0<L1≤1/2H 0<L1≤1/2H
✓	✓					L2≤H	≥50(100) ≥100(200)			≥500 (1000)	≥500	≥1000	0<L2≤1/2H 1/2H<L2≤H
									L2≤H				
✓			✓	✓		≥200	≥200(300)		≥1000				
✓			✓	✓	✓	≥200	≥200(300)		≥1000				
		✓									≤500	≥1000	
		✓			✓						≥1000		≥1000
						L1<L2	≥200(300)			≥1000			
✓	✓					L2<L1	≥150(250) ≥200(300)			≥1000 (1000)			0<L1≤1/2H 1/2H<L1≤H
					L1<L2	L1≤H	≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H 1/2H<L1≤H
									L1≤H				
						L2≤H	≥150(250) ≥200(300)			≥1000 (1000)	≤500	≥1000	0<L2≤1/2H 1/2H<L2≤H
									L2≤H				

- ← Suction side obstacle
- Discharge side obstacle
- ↖ Left side obstacle
- ↗ Right side obstacle
- ↕ Top side obstacle
- ✓ Obstacle is present

1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

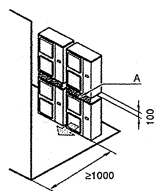
2 In these cases, only 2 units can be installed.

⊗ This situation is not allowed.

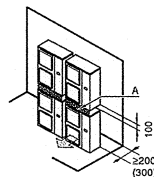
Figures between () indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



2. Obstacles exist in front of the air inlet

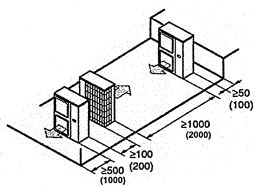


Do not stack more than one unit.

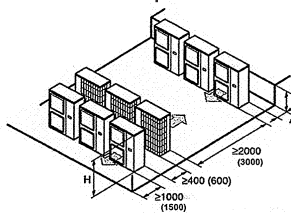
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



2. Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
$L \leq H$	$0 < L \leq 1/2 H$	150 (250)
	$1/2 H < L$	200 (300)
$H < L$	Installation impossible	

3TW26739-4

12 Installation

12 - 1 Installation Method

RZQSG100-140L9V1

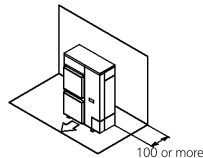
Installation service space

The measure of these values is "mm".

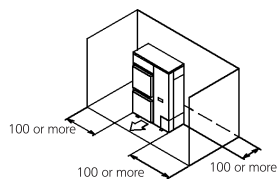
(A) When there are obstacles on suction sides.

• No obstacle above

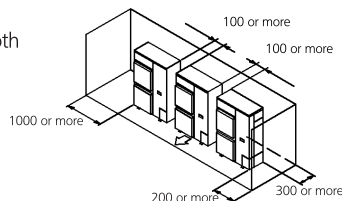
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

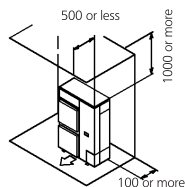


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

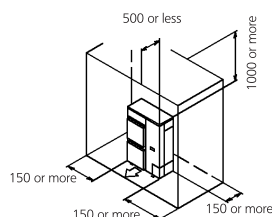


• Obstacle above, too.

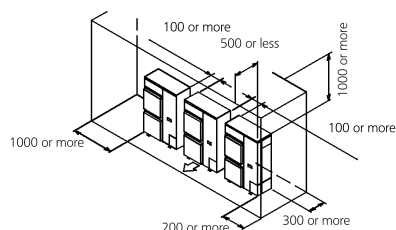
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



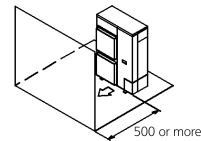
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



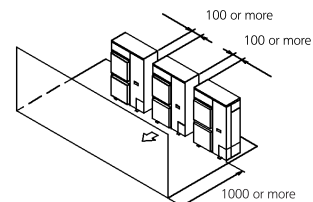
(B) When there are obstacles on discharge sides.

• No obstacle above

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

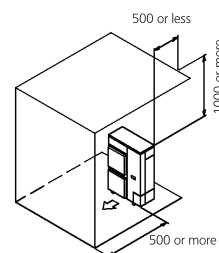


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

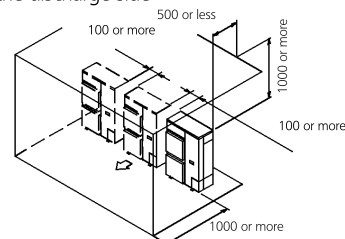


• Obstacle above, too

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



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



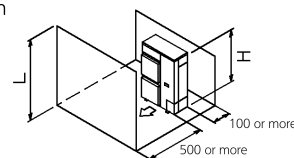
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

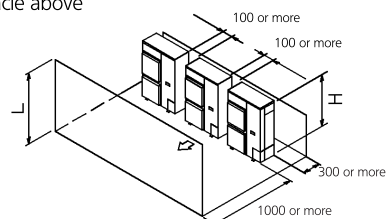
When the obstacles on the discharge side is higher than the unit. ($L > H$)
(There is no limit for the height of obstructions on the suction side.)

• 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

12

RZQSG100-140L9V1

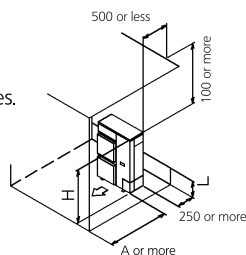
• Obstacle above, too

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



② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

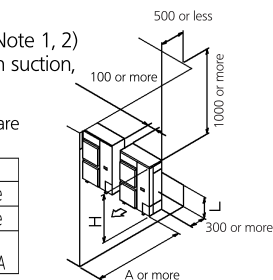
The relations between H, A and L are as follows.

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

Limit of series installation is 2 units.

Pattern 2

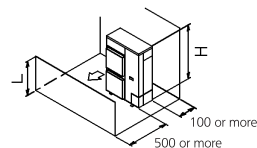
When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



• No obstacle above

① Stand-alone installation

- No obstacle above

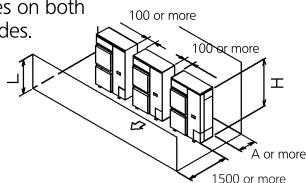


② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on both suction and discharge sides.

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

	L	A
$L \leq H$	$L \leq 1/2 H$	250 or more
	$1/2 H < L \leq H$	300 or more



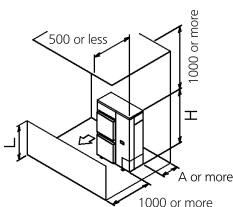
• Obstacle above, too

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



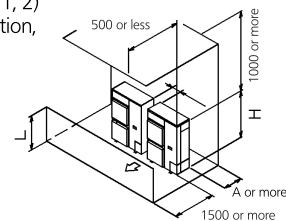
② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

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

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

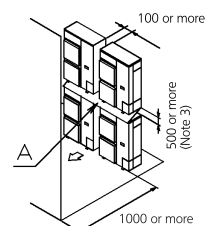
Limit of series installation is 2 units.



(D) Double-decker installation

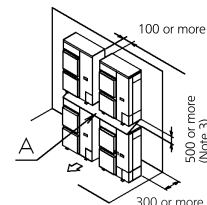
① Obstacle on the discharge side. (Note 1)

- 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.



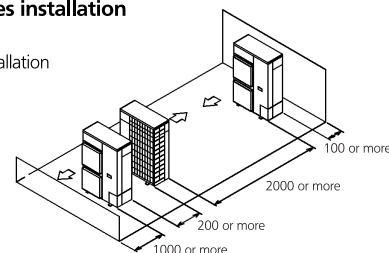
② Obstacle on the suction side. (Note 1)

- 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.)

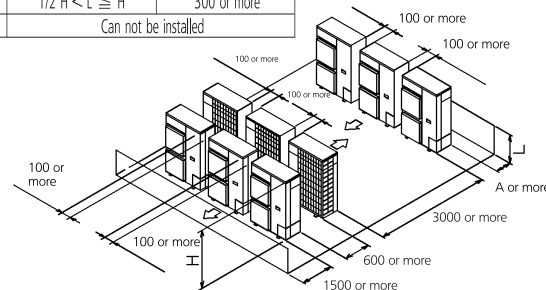
① One row of stand-alone installation



② Rows of series installation (2 or more)

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

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



NOTES

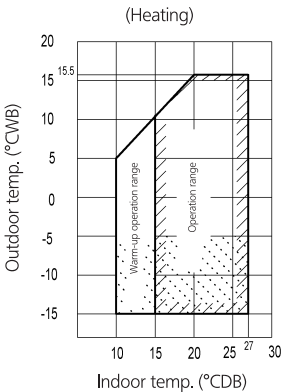
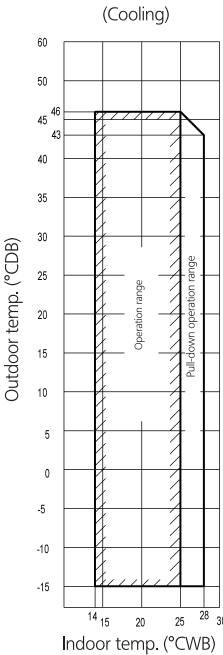
- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between 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.

3D069554

13 Operation range

13 - 1 Operation Range

RZQSG-L3/9V1

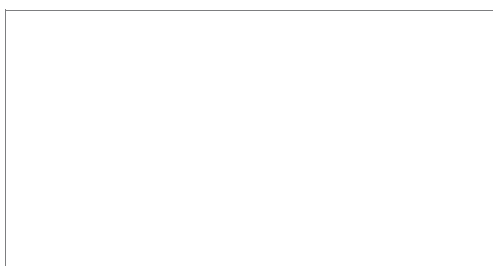


Notes:

- 1 Depending on operation and installation conditions, the outdoor unit can change over to defrost operation (anti freeze-up).
- 2 To reduce the defrost operation (anti freeze-up) frequency it is recommended to install the outdoor unit in a location not exposed to wind.
- 3 In case of high humidity conditions (>92%) in this operation area, an RZQG model should be used instead of an RZQSG model. This to avoid freeze-up of the outdoor unit.

3D086703

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