

Air Conditioning
Technical Data

RZQSG-L3/9V1



TABLE OF CONTENTS

RZQSG-L3/9V1

1	Features	2
2	Specifications	3
	Capacity and Power input	3
	Capacity and Power input	3
	Capacity and Power input	4
	Capacity and Power input	4
	Capacity and Power input	4
	Capacity and Power input	5
	Capacity and Power input	5
	Technical Specifications	6
	Electrical Specifications	7
3	Electrical data	9
4	Options	16
5	Combination table	17
6	Capacity tables	18
	Cooling/Heating Capacity Tables	18
	Capacity Correction Factor	21
7	Dimensional drawings	22
8	Centre of gravity	24
9	Piping diagrams	27
	Piping Diagrams	27
	Piping Diagram Twin Application	28
	Piping Diagram Triple Application	29
	Piping Diagram Double Twin Application	30
10	Wiring diagrams	31
	Wiring Diagrams - Single Phase	31
11	Sound data	33
	Sound Power Spectrum	33
	Sound Pressure Spectrum - Cooling	35
	Sound Pressure Spectrum - Heating	37
	Sound Pressure Spectrum Quiet Mode	39
12	Installation	41
	Installation Method	41
13	Operation range	44

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	FBQ140D/ RZQSG140L9V1	
Indoor unit				FBQ71D	FBQ100D	FBQ125D	FBQ140D	
Outdoor unit				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	
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	1.98 (1)	2.84 (1)	3.72 (1)	4.38 (1)	
	Heating	Nom.	kW	1.91 (1)	2.94 (1)	3.72 (1)	4.56 (1)	
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	-	
	Heating (Average climate)	Energy label		A+			-	-
		Pdesign	kW	6.00	7.60		-	-
		SCOP/A		4.01	4.15	4.01	-	
		Annual energy consumption	kWh	2,095	2,564	2,653	-	
Nominal efficiency	EER			3.43 (2)	3.35 (2)	3.23 (2)	3.06 (2)	
	COP			3.92 (2)	3.67 (2)	3.63 (2)	3.40 (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

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

SEER and SCOP are according to EN 14825

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	
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	-	
	Heating (Average climate)	Energy label		A+			-	-
		Pdesign	kW	7.60	8.03		-	-
		SCOP/A		4.15	4.30	4.10	-	
		Annual energy consumption	kWh	2,563	2,615	2,742	-	
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 Specifications

2

2-3 Capacity and Power input			FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L9V1	FCQG125F/ RZQSG125L9V1	FCQG140F/ 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	2.88	3.74	4.45
	Heating	Nom.	kW	2.08	3.05	3.96	4.54
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	-
	Heating (Average climate)	Energy label		A+	B		-
		Pdesign	kW	6.33	7.60	8.03	-
		SCOP/A		4.10		4.01	-
		Annual energy consumption	kWh	2,162	2,596	2,804	-
Nominal efficiency	EER		3.21	3.30	3.21	3.01	
	COP		3.61	3.54	3.41		
	Annual energy consumption		kWh	1,060	1,440	1,870	-
	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

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

SEER and SCOP are according to EN 14825

2-4 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
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A			
		Pdesign	kW	12.00			
		SEER		5.20			
		Annual energy consumption	kWh	808			
	Heating (Average climate)	Energy label		A			
		Pdesign	kW	7.60			
		SCOP/A		3.90			
		Annual energy consumption	kWh	2,729			
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

2-5 Capacity and Power input			FUQ71C/RZQSG71L3V1	FUQ100C/RZQSG100L9V1	FUQ125C/RZQSG125L9V1
Indoor unit			-	FUQ100C	FUQ125C
Outdoor unit			-	RZQSG100L9V1	RZQSG125L9V1
Cooling capacity	Nom.	kW	6.80	9.5	12.0
Heating capacity	Nom.	kW	7.50	10.8	13.5

4

2 Specifications

2-5 Capacity and Power input				FUQ71C/RZQSG71L3V1	FUQ100C/RZQSG100L9V1	FUQ125C/RZQSG125L9V1	
Power input	Cooling	Nom.	kW	2.12	2.96	4.53	
	Heating	Nom.	kW	2.08	2.99	3.95	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			
		Pdesign	kW	6.80	9.50	12.00	
		SEER		5.81	5.61	5.30	
		Annual energy consumption	kWh	410	593	793	
	Heating (Average climate)	Energy label		A	A+	A	
		Pdesign	kW	6.33	7.60		
		SCOP/A		3.90	4.01	3.85	
		Annual energy consumption	kWh	2,273	2,654	2,764	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	70		
	Sound power level indoor	Cooling	Nom.	dBA	64	65	
Nominal efficiency	EER			3.21		2.65	
	COP			3.61		3.41	
	Annual energy consumption			kWh	1,060	1,480	2,265
	Energy label	Cooling			A		D
		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

2-6 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
Seasonal efficiency (according to EN14825)	Cooling	Pdesign	kW	6.80	9.50	12.00	-
		SEER		5.61			-
		Annual energy consumption	kWh	425	593	749	-
	Heating (Average climate)	Pdesign	kW	7.60			-
		SCOP/A		3.90	3.91	4.01	-
		Annual energy consumption	kWh	2,727	2,722	2,654	-
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	70		-
	Sound power level indoor	Cooling	Nom.	dBA	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)

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

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	
	Heating (Average climate)	Energy label			A		A+	
		Pdesign		kW	6.33		6.81	
		SCOP/A			3.90		4.01	
		Annual energy consumption		kWh	2,273		2,378	
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	Nom.	m³/min	52	76	77.0	83
			Moderate	m³/min	-	55		-
		Heating	Nom.	m³/min	48	83		62
Moderate			m³/min	-	55		-	
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	-			

6

2 Specifications

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
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	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			
			Charges	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;

2-9 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	-				
	Recommended fuses		A	25	40		

2 Specifications

2-9 Electrical Specifications			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1
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			

2

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

RZQSG100L8Y1

Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
								MSC	RLA	kW	FLA	kW	FLA
FCQG100EVEB	RZQSG100L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V		14,5	—	16	—	11,4	0,2	0,6	0,106	1
FCQHG100FVEB	RZQSG100L8Y1B				14,8	—	16	—	11,4	0,2	0,6	0,221	1,3
FCQG35FVEB	×3 RZQSG100L8Y1B				14,3	—	16	—	11,4	0,2	0,6	0,044×3	0,3×3
FCQG50FVEB	×2 RZQSG100L8Y1B				14,0	—	16	—	11,4	0,2	0,6	0,039×2	0,3×2
FCQG100FVEB	RZQSG100L8Y1B				14,1	—	16	—	11,4	0,2	0,6	0,117	0,7
FFQ35C2VEB	×3 RZQSG100L8Y1B				14,7	—	16	—	11,4	0,2	0,6	0,05×3	0,4×3
FFQ50C2VEB	×2 RZQSG100L8Y1B				14,2	—	16	—	11,4	0,2	0,6	0,05×2	0,4×2
FDXS35F2VEB	×3 RZQSG100L8Y1B				14,3	—	16	—	11,4	0,2	0,6	0,034×3	0,3×3
FDXS50F2VEB9	×2 RZQSG100L8Y1B				14,5	—	16	—	11,4	0,2	0,6	0,06×2	0,5×2
FBQ35C8VEB	×3 RZQSG100L8Y1B				17,7	—	20	—	11,4	0,2	0,6	0,140×3	1,2×3
FBQ50C8VEB	×2 RZQSG100L8Y1B				16,2	—	20	—	11,4	0,2	0,6	0,140×2	1,2×2
FBQ100C8VEB	RZQSG100L8Y1B				15,2	—	16	—	11,4	0,2	0,6	0,350	1,6
FAQ100CVEB9	RZQSG100L8Y1B				13,7	—	16	—	11,4	0,2	0,6	0,064	0,4
FVQ100CVEB	RZQSG100L8Y1B				14,7	—	16	—	11,4	0,2	0,6	0,238	1,2
FHQ35CBVEB	×3 RZQSG100L8Y1B				15,5	—	16	—	11,4	0,2	0,6	0,060 x 3	0,6 x 3
FHQ50CBVEB	×2 RZQSG100L8Y1B				14,7	—	16	—	11,4	0,2	0,6	0,060 x 2	0,6 x 2
FHQ100CBVEB	RZQSG100L8Y1B				14,8	—	16	—	11,4	0,2	0,6	0,150	1,3
FUQ100CVEB	RZQSG100L8Y1B				14,8	—	16	—	11,4	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

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

3 - 1 Electrical Data

RZQSG125-140L(8)Y1

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM			
							MSC	RLA	KW	FLA	KW	FLA		
FCQG125EVEB	RZQSG125L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	14,6	—	16	—	11,4	0,2	0,6	0,106	1,1		
FCQHG125FVEB	RZQSG125L8Y1B			15,0	—	16	—	11,4	0,2	0,6	0,244	1,4		
FCQG35FVEB	x4 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,044x4	0,3x4		
FCQG50FVEB	x3 RZQSG125L8Y1B			14,3	—	16	—	11,4	0,2	0,6	0,039x3	0,3x3		
FCQG60FVEB	x2 RZQSG125L8Y1B			14,0	—	16	—	11,4	0,2	0,6	0,044x2	0,3x2		
FCQG125FVEB	RZQSG125L8Y1B			14,5	—	16	—	11,4	0,2	0,6	0,168	1		
FFQ35C2VEB	x4 RZQSG125L8Y1B			15,2	—	16	—	11,4	0,2	0,6	0,05x4	0,4x4		
FFQ50C2VEB	x3 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,05x3	0,4x3		
FFQ60C2VEB	x2 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,05x2	0,6x2		
FDXS35F2VEB	x4 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,034x4	0,3x4		
FDXS50F2VEB9	x3 RZQSG125L8Y1B			15,1	—	16	—	11,4	0,2	0,6	0,060x3	0,5x3		
FDXS60F2VEB	x2 RZQSG125L8Y1B			14,5	—	16	—	11,4	0,2	0,6	0,060x2	0,5x2		
FBQ35C8VEB	x4 RZQSG125L8Y1B			19,2	—	20	—	11,4	0,2	0,6	0,140x4	1,2x4		
FBQ50C8VEB	x3 RZQSG125L8Y1B			17,7	—	20	—	11,4	0,2	0,6	0,140x3	1,2x3		
FBQ60C8VEB	x2 RZQSG125L8Y1B			16,0	—	20	—	11,4	0,2	0,6	0,350x2	1,1x2		
FBQ125C8VEB	RZQSG125L8Y1B			15,8	—	16	—	11,4	0,2	0,6	0,350	2,1		
FDQ125C7VEB	RZQSG125L8Y1B			15,8	—	16	—	11,4	0,2	0,6	0,350	2,1		
FVQ125CVEB	RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,238	1,2		
FHQ35C8VEB	x4 RZQSG125L8Y1B			16,2	—	20	—	11,4	0,2	0,6	0,060x4	0,6 x 4		
FHQ50C8VEB	x3 RZQSG125L8Y1B			15,5	—	16	—	11,4	0,2	0,6	0,060x3	0,6 x 3		
FHQ60C8VEB	x2 RZQSG125L8Y1B			14,7	—	16	—	11,4	0,2	0,6	0,091x2	0,8 x 2		
FHQ125C8VEB	RZQSG125L8Y1B			15,1	—	16	—	11,4	0,2	0,6	0,15	1,5		
FUQ125C8VEB	RZQSG125L8Y1B			15,0	—	16	—	11,4	0,2	0,6	0,106	1,4		
FCQG71EVEB	x2 RZQSG140L7Y1B			3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2
FCQG140EVEB	RZQSG140L7Y1B					17,875	—	20	—	14,2	0,094+0,094	0,4+0,4	0,106	1,1
FCQHG71FVEB	x2 RZQSG140L7Y1B					17,75	—	20	—	14,2	0,094+0,094	0,4+0,4	0,091x2	0,5x2
FCQHG140FVEB	RZQSG140L7Y1B					18,25	—	20	—	14,2	0,094+0,094	0,4+0,4	0,244	1,4
FCQG35FVEB	x4 RZQSG140L7Y1B					18	—	20	—	14,2	0,094+0,094	0,4+0,4	0,044x4	0,3x4
FCQG50FVEB	x3 RZQSG140L7Y1B					17,625	—	20	—	14,2	0,094+0,094	0,4+0,4	0,039x3	0,3x3
FCQG71FVEB	x2 RZQSG140L7Y1B					17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,054x2	0,4x2
FCQG140FVEB	RZQSG140L7Y1B					17,75	—	20	—	14,2	0,094+0,094	0,4+0,4	0,168	1
FFQ35C2VEB	x4 RZQSG140L7Y1B					18,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x4	0,4x4
FFQ50C2VEB	x3 RZQSG140L7Y1B					18	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x3	0,4x3
FFQ60C2VEB	x2 RZQSG140L7Y1B					18	—	20	—	14,2	0,094+0,094	0,4+0,4	0,034x4	0,3x4
FDXS35F2VEB	x4 RZQSG140L7Y1B					18,375	—	20	—	14,2	0,094+0,094	0,4+0,4	0,06x3	0,5x3
FDXS50F2VEB9	x3 RZQSG140L7Y1B					22,5	—	25	—	14,2	0,094+0,094	0,4+0,4	0,140x4	1,2x4
FBQ35C8VEB	x4 RZQSG140L7Y1B	21	—			25	—	14,2	0,094+0,094	0,4+0,4	0,140x3	1,2x3		
FBQ50C8VEB	x3 RZQSG140L7Y1B	19,25	—			20	—	14,2	0,094+0,094	0,4+0,4	0,350x2	1,1x2		
FBQ71C8VEB	x2 RZQSG140L7Y1B	19,125	—			20	—	14,2	0,094+0,094	0,4+0,4	0,35	2,1		
FBQ140C8VEB	RZQSG140L7Y1B	17,5	—			20	—	14,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2		
FAQ71C8VEB9	x2 RZQSG140L7Y1B	18,25	—			20	—	14,2	0,094+0,094	0,4+0,4	0,276	1,4		
FVQ140C8VEB	RZQSG140L7Y1B	19,5	—			20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 4	0,6 x 4		
FHQ35C8VEB	x 4 RZQSG140L7Y1B	18,8	—			20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 3	0,6 x 3		
FHQ50C8VEB	x 3 RZQSG140L7Y1B	18,5	—			20	—	14,2	0,094+0,094	0,4+0,4	0,091 x 2	0,8 x 2		
FHQ71C8VEB	x 2 RZQSG140L7Y1B	18,8	—			20	—	14,2	0,094+0,094	0,4+0,4	0,15	1,8		
FHQ140C8VEB	RZQSG140L7Y1B	18,8	—			20	—	14,2	0,094+0,094	0,4+0,4	0,046 x 2	0,9 x 2		
FUQ71C8VEB	x2 RZQSG140L7Y1B	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

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

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3 Electrical data

3 - 1 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: 198 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	0.044x2	0.3x2	
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	0.050x2	0.4x2	
FDXS35F2VEB	RZQSG71L3V1B			18.9	--	20	--	16.2	0.07	0.3	0.034x2	0.3x2	
FBQ35C8VEB	RZQSG71L3V1B			21.2	--	25	--	16.2	0.07	0.3	0.140x2	1.2x2	
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	
FHQ35CBVEB	RZQSG71L3V1B			19.1	--	20	--	15.7	0.07	0.3	0.060 x 2	0.6 x 2	
FHQ71CBVEB	RZQSG71L3V1B		18.6	--	20	--	15.7	0.07	0.3	0.091	0.8		
FCQHG100FVEB	RZQSG100L9V1B		50Hz ~ 220-240V	Minimum: 198 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	0.044x3	0.3x3
FCQG50FVEB	RZQSG100L9V1B				28.3	--	32	--	24.4	0.2	0.6	0.039x2	0.3x2
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	0.05x3	0.4x3
FFQ50C2VEB	RZQSG100L9V1B				28.5	--	32	--	24.4	0.2	0.6	0.05x2	0.4x2
FDXS35F2VEB	RZQSG100L9V1B				28.6	--	32	--	24.4	0.2	0.6	0.034x3	0.3x3
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	0.140x3	1.2x3
FBQ50C8VEB	RZQSG100L9V1B	30.5			--	32	--	24.4	0.2	0.6	0.140x2	1.2x2	
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		
FHQ35CBVEB	RZQSG100L9V1B	29.8		--	32	--	24.4	0.2	0.6	0.060 x 3	0.6 x 3		
FHQ50CBVEB	RZQSG100L9V1B	29.0		--	32	--	24.4	0.2	0.6	0.060 x 2	0.6 x 2		
FHQ100CBVEB	RZQSG100L9V1B	29.1		--	32	--	24.4	0.2	0.6	0.150	1.3		
FHQ100C8VEB	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

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

3 - 1 Electrical Data

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	2x0.6
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	2x0.6
3xFBQ35D2VEB	RZQSG100L9V1B				29,7	32	-	24,4	0,2	0,6	3x0.089	3x0.6
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			Comp		OFM		IFM		
				MCA	TOCA	MFA	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
FHQ35BW1B				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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3 Electrical data

3 - 1 Electrical Data

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RZQSG125-140L9V1

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM	
							MSC	RLA	kW	FLA	kW	FLA
FCQHG125FVEB	RZQSG125L9V1B	50Hz ~ 220-240V	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
FHQ35CBVEB	x4 RZQSG125L9V1B			30,5	--	32	--	24,4	0,2	0,6	0,060x4	0,6 x 4
FHQ50CBVEB	x3 RZQSG125L9V1B			29,8	--	32	--	24,4	0,2	0,6	0,060x3	0,6 x 3
FHQ60CBVEB	x2 RZQSG125L9V1B			29	--	32	--	24,4	0,2	0,6	0,091x2	0,6 x 2
FHQ125CBVEB	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
FCQHG140FVEB	RZQSG140L9V1B			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		
FDXS60F2VEB	x2 RZQSG140L9V1B	33,5	--	40	--	24,2	0,094+0,094	0,4+0,4	0,140x4	1,2x4		
FBQ35C8VEB	x4 RZQSG140L9V1B	32	--	40	--	24,2	0,094+0,094	0,4+0,4	0,140x3	1,2x3		
FBQ50C8VEB	x3 RZQSG140L9V1B	30,25	--	32	--	24,2	0,094+0,094	0,4+0,4	0,350x2	1,1x2		
FBQ71C8VEB	x2 RZQSG140L9V1B	30,125	--	32	--	24,2	0,094+0,094	0,4+0,4	0,35	2,1		
FBQ140C8VEB	RZQSG140L9V1B	28,5	--	32	--	24,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2		
FAQ71CVBE9	x2 RZQSG140L9V1B	29,25	--	32	--	24,2	0,094+0,094	0,4+0,4	0,276	1,4		
FVQ140C8VEB	RZQSG140L9V1B	30,5	--	32	--	24,2	0,094+0,094	0,4+0,4	0,060 x 4	0,6 x 4		
FHQ35CBVEB	x4 RZQSG140L9V1B	29,8	--	32	--	24,2	0,094+0,094	0,4+0,4	0,060 x 3	0,6 x 3		
FHQ50CBVEB	x3 RZQSG140L9V1B	29,5	--	32	--	24,2	0,094+0,094	0,4+0,4	0,091 x 2	0,8 x 2		
FHQ71CBVEB	x2 RZQSG140L9V1B	29,8	--	32	--	24,2	0,094+0,094	0,4+0,4	0,15	1,8		
FHQ140CBVEB	RZQSG140L9V1B	29,8	--	32	--	24,2	0,094+0,094	0,4+0,4	0,046 x 2	0,9 x 2		
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

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

3 Electrical data

3 - 1 Electrical Data

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
- 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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4 Options

4 - 1 Options

4

RZQSG-L3/9V1

Available options for RZQSG models

Option		Option kit			
		RZQSG71L3V1B	RZQSG100L9V1B	RZQSG125L9V1B	RZQSG140L9V1B
Bottom plate heater		-			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	-	KHRQ127H	
	Double twin	-	-	KHRQ22M20TA (3x)	
Demand adaptor kit		KRP58M51	SB.KRP58M51		

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5 Combination table

5 - 1 Combination Table

RZQSG-L3/9V1
RZQSG-L(8)Y1

Possible combinations

P= Pair	71	100	125	140
2= Twin	35+35	50+50	60+60	71+71
3= Triple	35+35+35	50+50+50 (*)	60+60+60 (*)	71+71+71 (*)
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	FCQGS9FVEB FCQGS6FVEB FCQGS8FVEB FCQGS7FVEB	FCQGS7FVEB FCQGS100FVEB FCQGS125FVEB FCQGS140FVEB	FCQGS9FVEB FCQGS6FVEB FCQGS8FVEB FCQGS7FVEB	FCQGS7FVEB FCQGS100FVEB FCQGS125FVEB FCQGS140FVEB	FFQSG2VEB FFQSG2VEB FFQSG2VEB FFQSG2VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FUQ100VEB FUQ125VEB FUQ140VEB FUQ100VEB	FAQ100VEB FAQ125VEB FAQ140VEB FAQ100VEB	FDQ125VEB FDQ100VEB FDQ125VEB FDQ100VEB	FVQ100VEB FVQ125VEB FVQ140VEB FVQ100VEB	FDX80F2VEB FDX80F2VEB FDX80F2VEB FDX80F2VEB	
RZQG71L9V1B	P		2		P		2								P			P		
RZQG100L9V1B	P		3	2			3	2							P			P		
RZQG125L9V1B		P	4	3	2		4	3	2						P			P		
RZQG140L9V1B	2		P	4	3	2		P	4	3	2				P			P		

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	FCQGS9FVEB FCQGS6FVEB FCQGS8FVEB FCQGS7FVEB	FCQGS7FVEB FCQGS100FVEB FCQGS125FVEB FCQGS140FVEB	FCQGS9FVEB FCQGS6FVEB FCQGS8FVEB FCQGS7FVEB	FCQGS7FVEB FCQGS100FVEB FCQGS125FVEB FCQGS140FVEB	FFQSG2VEB FFQSG2VEB FFQSG2VEB FFQSG2VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FUQ100VEB FUQ125VEB FUQ140VEB FUQ100VEB	FAQ100VEB FAQ125VEB FAQ140VEB FAQ100VEB	FDQ125VEB FDQ100VEB FDQ125VEB FDQ100VEB	FVQ100VEB FVQ125VEB FVQ140VEB FVQ100VEB	FDX80F2VEB FDX80F2VEB FDX80F2VEB FDX80F2VEB	
RZQSG71L3V1B	P		2		P		2								P			P		
RZQSG100L9V1B	P		3	2			3	2							P			P		
RZQSG125L9V1B		P	4	3	2		4	3	2						P			P		
RZQSG140L9V1B	2		P	4	3	2		P	4	3	2				P			P		

Sky Air	Duct (medium ESP)				Concealed floor standing type			
Model	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FBQ352VEB FBQ352VEB FBQ352VEB FBQ352VEB	FNQ352VEB FNQ352VEB FNQ352VEB FNQ352VEB	FNQ352VEB FNQ352VEB FNQ352VEB FNQ352VEB	FNQ352VEB FNQ352VEB FNQ352VEB FNQ352VEB	FNQ352VEB FNQ352VEB FNQ352VEB FNQ352VEB
RZQG71L9V1B				P				2
RZQG100L9V1B				P				3
RZQG125L9V1B				P				4
RZQG140L9V1B				P				4

Notes

- The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- For the selection of the correct refrigerant 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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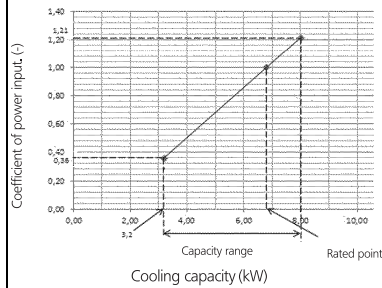
6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

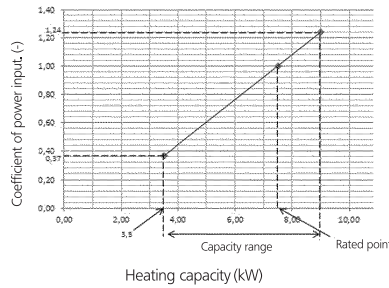
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RZQSG71L3V1

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 °CWB	Indoor °CDB	Outdoor temp. (°CDB)											
		25			30			35			40		
		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	7.60	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	5.26	1.03	9.15	5.16	1.13	8.85	5.05	1.23	8.61	4.90	1.36

Heating

Indoor °CWB	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		5.0		10.0	
	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	7.02	1.08	7.72	1.13
18	5.14	0.92	5.87	0.97	6.21	1.02	6.74	1.07	7.01	1.12	7.70	1.18
20	5.13	0.95	5.87	1.01	6.20	1.05	6.73	1.11	7.00	1.17	7.69	1.23
21	5.13	0.98	5.86	1.03	6.20	1.08	6.73	1.13	7.00	1.19	7.68	1.25
22	5.12	0.99	5.86	1.04	6.19	1.10	6.73	1.15	6.99	1.22	7.68	1.28
24	5.12	1.03	5.85	1.09	6.19	1.14	6.72	1.20	6.98	1.26	7.66	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.
- 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)	FCQH71F	FCQ71F	FBQ71D	FHQ71C	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
AFR (BF)	21.2 (0.2)	21.5 (0.14)	18 (0.13)	20.5 (0.13)	18 (0.16)	18 (0.16)	20.5 (0.13)	23.0 (0.24)

NOTES

- Rated power input of each model is tabulated below.

(Pair)	FCQH71F	FCQ71F	FBQ71D	FHQ71C	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

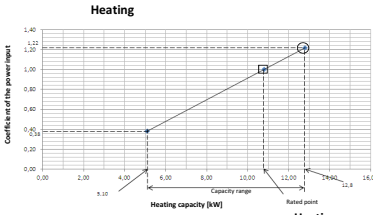
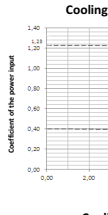
(Twin)	FCQ35F x 2	FFQ35 x 2	FBQ35D x 2	FHQ35BW x 2	FHQ35CA x 2	FFQ35C2 x 2	FDX35F2 x 2	FNQ35A2 x 2
Cooling	2.28	2.30	2.90	2.51	2.47	2.29	2.31	2.16
Heating	2.37	2.32	2.12	2.78	2.70	2.31	2.39	2.39

(Twin)	FCQ35F x 2	FFQ35 x 2	FBQ35D x 2	FHQ35BW x 2	FHQ35CA x 2	FFQ35C2 x 2	FDX35F2 x 2	FNQ35A2 x 2
AFR (BF)	12.5 x 2 (0.4 x 2)	10 x 2 (0.25 x 2)	15 x 2 (0.08 x 2)	13 x 2 (0.20 x 2)	14 x 2 (0.17 x 2)	10 x 2 (0.25 x 2)	8.7 x 2 (0.17 x 2)	8.7 x 2 (0.17 x 2)

6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZQSG100L(8)Y1
RZQSG100L9V1



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
 Pl: Power input [kW]
 compressor + indoor and outdoor fan motors

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
TCWB	TCDB	—	—	—	—	—	—	—	—	—	—	—	
16.0	22	11.2	7.81	1.01	10.8	7.44	1.11	10.5	7.28	1.22	10.1	7.08	1.33
18.0	26	11.8	7.59	1.01	11.4	7.49	1.12	11.0	7.27	1.23	10.5	7.08	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	7.24	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	1.02	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Indoor	Outdoor temperature (°C WB)														
	-15.0			-10.0			0.0			6.0			10.0		
	TC	CPI	—	TC	CPI	—	TC	CPI	—	TC	CPI	—	TC	CPI	—
TCDB	TCWB	—	—	—	—	—	—	—	—	—	—	—	—	—	
16	8.88	0.93	9.45	0.99	10.1	1.02	10.4	1.06	12.8	1.12	13.8	1.18	14.8	1.25	
18	8.67	0.97	9.44	1.02	10.0	1.07	10.3	1.10	12.9	1.17	13.8	1.25	14.8	1.32	
20	8.66	1.01	9.43	1.07	10.0	1.11	10.3	1.14	12.8	1.22	13.8	1.28	14.8	1.35	
21	8.56	1.03	9.42	1.09	10.0	1.13	10.3	1.16	12.8	1.24	13.8	1.30	14.8	1.35	
22	8.56	1.04	9.42	1.10	10.0	1.14	10.3	1.16	12.8	1.25	13.8	1.32	14.8	1.35	
24	8.64	1.09	9.41	1.15	10.0	1.19	10.3	1.22	12.8	1.31	13.8	1.38	14.8	1.45	

- 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

AFR (BF)	FCQSG100F	FCQSG100F	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C
32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	32.0 (0.09)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	29.0 (0.03)	31.0 (0.20)	—	—

Twin

AFR (BF)	FCQSG09F x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2
12.6 x 2 (0.22 x 2)	16 x 2 (0.18 x 2)	15 x 2 (0.18 x 2)	12 x 2 (0.16 x 2)	16 x 2 (0.15 x 2)	18 x 2 (0.15 x 2)	16 x 2 (0.11 x 2)	—

Triple

AFR (BF)	FCQSG09F x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3
12.5 x 3 (0.4 x 3)	16 x 3 (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)	17 x 3 (0.17 x 3)	—

Pair

AFR (BF)	FCQSG100F	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C	FRQSG100C
2.57 (0.17)	2.88 (0.17)	2.87 (0.17)	2.56 (0.17)	3.16 (0.17)	2.96 (0.17)	2.96 (0.17)	2.84 (0.17)	2.96 (0.17)	—

Twin

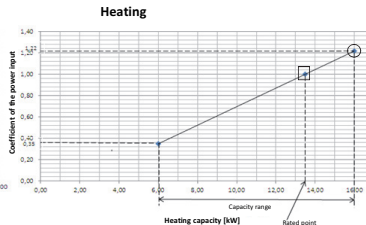
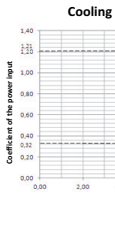
AFR (BF)	FCQSG09F x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2
2.76 (0.22 x 2)	2.93 (0.18 x 2)	3.35 (0.18 x 2)	3.13 (0.15 x 2)	3.15 (0.15 x 2)	3.10 (0.11 x 2)	3.15 (0.11 x 2)	—

Triple

AFR (BF)	FCQSG09F x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3
2.82 (0.4 x 3)	2.93 (0.15 x 3)	3.33 (0.15 x 3)	2.88 (0.11 x 3)	3.71 (0.11 x 3)	2.90 (0.11 x 3)	3.71 (0.11 x 3)	—

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RZQSG125L9V1
RZQSG125L8Y1



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
 Pl: Power input [kW]
 compressor + indoor and outdoor fan motors

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
TCWB	TCDB	—	—	—	—	—	—	—	—	—	—	—	
16.0	22	14.1	9.54	0.99	13.6	9.30	1.08	13.1	9.12	1.18	12.6	8.78	1.29
18.0	26	14.7	9.50	0.99	14.2	9.32	1.08	13.7	9.08	1.20	13.2	8.63	1.31
19.0	27	15.0	9.52	1.00	14.5	9.34	1.10	14.0	9.06	1.20	13.5	8.67	1.31
19.5	27	15.2	9.52	1.00	14.7	9.26	1.11	14.2	9.08	1.20	13.6	8.61	1.31
22.0	30	16.0	9.39	1.00	15.5	9.14	1.11	14.9	8.95	1.21	14.4	8.74	1.32
24.0	32	16.7	9.21	1.01	16.1	9.08	1.12	15.5	8.83	1.23	15.0	8.63	1.33

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	—
TCDB	TCWB	—	—	—	—	—	—	—	—	—	—	—	—	—				
16	10.7	0.93	11.8	0.99	12.6	1.02	13.0	1.05	16.0	1.12	17.3	1.18	18.3	1.25				
18	10.7	0.97	11.8	1.02	12.5	1.07	12.9	1.10	16.0	1.17	17.3	1.23	18.3	1.30				
20	10.7	1.01	11.8	1.07	12.5	1.11	12.9	1.14	16.0	1.22	17.3	1.28	18.3	1.35				
21	10.7	1.03	11.8	1.09	12.5	1.13	12.9	1.16	16.0	1.24	17.3	1.31	18.3	1.38				
22	10.7	1.04	11.8	1.10	12.5	1.14	12.9	1.18	16.0	1.27	17.3	1.33	18.3	1.40				
24	10.7	1.09	11.8	1.15	12.5	1.19	12.9	1.23	16.0	1.31	17.3	1.38	18.3	1.45				

- 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

AFR (BF)	FCQSG125F	FCQSG125F	FRQSG125C	FRQSG125C	FRQSG125C	FRQSG125C	FRQSG125C	FRQSG125C
33.5 (0.19)	33.0 (0.21)	33.0 (0.16)	33.0 (0.13)	28.0 (0.14)	31.0 (0.14)	34.0 (0.06)	32.5 (0.19)	—

Twin

AFR (BF)	FCQSG09F x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2
13.6 x 2 (0.2 x 2)	18 x 2 (0.15 x 2)	19.5 x 2 (0.13 x 2)	14.5 x 2 (0.11 x 2)	16 x 2 (0.12 x 2)	18 x 2 (0.15 x 2)	16 x 2 (0.12 x 2)	—

Triple

AFR (BF)	FCQSG09F x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3
12.5 x 3 (0.22 x 3)	16 x 3 (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 (0.11 x 3)	16 x 3 (0.11 x 3)	—

Double twin

AFR (BF)	FCQSG09F x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4
12.5 x 4 (0.4 x 4)	16 x 4 (0.15 x 4)	14 x 4 (0.17 x 4)	10 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15 x 4 (0.08 x 4)	17 x 4 (0.17 x 4)	—

Pair

AFR (BF)	FCQSG125F	FRQSG125C	FRQSG125C	FRQSG125C	FRQSG125C	FRQSG125C	FRQSG125C
3.71 (0.19)	3.74 (0.17)	3.74 (0.17)	4.15 (0.17)	4.27 (0.17)	4.15 (0.17)	3.72 (0.17)	3.96 (0.17)

Twin

AFR (BF)	FCQSG09F x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2	FRQSG09C x 2
3.66 (0.22 x 2)	3.95 (0.18 x 2)	4.34 (0.18 x 2)	4.75 (0.15 x 2)	4.88 (0.15 x 2)	4.24 (0.11 x 2)	4.38 (0.11 x 2)	—

Triple

AFR (BF)	FCQSG09F x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3	FRQSG09C x 3
3.69 (0.4 x 3)	3.95 (0.15 x 3)	4.33 (0.15 x 3)	4.14 (0.11 x 3)	4.07 (0.11 x 3)	4.07 (0.11 x 3)	4.07 (0.11 x 3)	—

Double twin

AFR (BF)	FCQSG09F x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4	FRQSG09C x 4
3.75 (0.4 x 4)	3.95 (0.15 x 4)	4.31 (0.17 x 4)	4.07 (0.11 x 4)	4.07 (0.11 x 4)	3.95 (0.11 x 4)	4.07 (0.11 x 4)	—

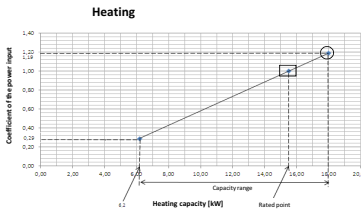
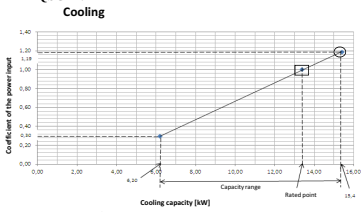
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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

6

RZQSG140L9V1
RZQSG140L Y1



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

Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI		
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	10.95	0.98	15.6	10.91	1.08	15.1	10.68	1.18	14.6	9.71	1.30
19.0	27	16.6	10.43	0.99	16.0	10.19	1.09	15.4	9.98	1.19	14.9	9.76	1.30
19.5	27	16.7	10.49	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.8	10.97	0.99	17.0	10.16	1.10	16.4	9.83	1.21	15.8	9.90	1.31
24.0	32	18.4	10.90	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47	1.32

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	
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	19.0	1.09	19.4	1.16
19	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	13.6	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	1.09	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
- 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 × AFR (m³/min) × (1-BF) × (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	FCQ9L40F	FCQ9L40F	FRQ140C	FRQ140C	FRQ140C	FRQ140C	FRQ140C	FRQ140C
AFR	33.5	33.0	39.0	34.0	30.0	34.0	34.0	34.0
BF	(0.55)	(0.23)	(0.46)	(0.37)	(0.31)	(0.37)	(0.37)	(0.36)

Twin	FCQ9L77 X 4	FCQ9L77 X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2
AFR	21.2 x 2	23.5 x 2	18.0 x 2	20.5 x 2	18.0 x 2	20.5 x 2	18 x 2	23.0 x 2
BF	(0.2 x 2)	(0.14 x 2)	(0.08 x 2)	(0.11 x 2)	(0.16 x 2)	(0.13 x 2)	(0.13 x 2)	(0.24 x 2)

Triple	FCQ9L99 X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3
AFR	12.6 x 3	16 x 3	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)	(0.14 x 3)	(0.13 x 3)	(0.13 x 3)	(0.13 x 3)

Double twin	FCQ9L99 X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4
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)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair	FCQ9L40F	FCQ9L40F	FRQ140C	FRQ140C	FRQ140C	FRQ140C	FRQ140C
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	FCQ9L77 X 4	FCQ9L77 X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2	FRQ177C X 2
Cooling	4.11	4.39	4.37	4.01	4.23	4.01	4.37
Heating	4.23	4.48	4.84	4.71	4.92	4.71	4.94

Triple	FCQ9L99 X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3	FRQ99C X 3
Cooling	4.40	4.17	4.67	4.43	4.68	4.17
Heating	4.58	4.94	5.67	4.39	4.61	4.94

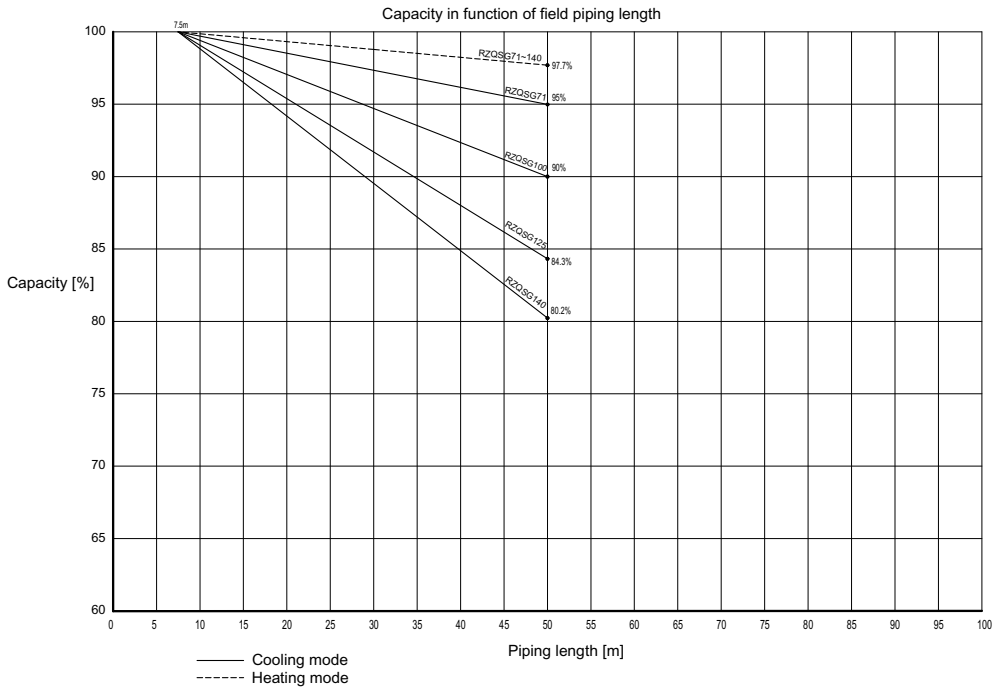
Double twin	FCQ9L99 X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4	FRQ99C X 4
Cooling	4.56	4.17	4.65	4.11	5.80	4.17
Heating	4.54	4.94	5.57	4.05	6.09	4.94

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6 Capacity tables

6 - 2 Capacity Correction Factor

RZQSG100-140L9V1



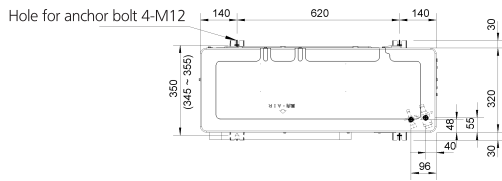
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7 Dimensional drawings

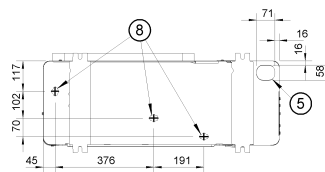
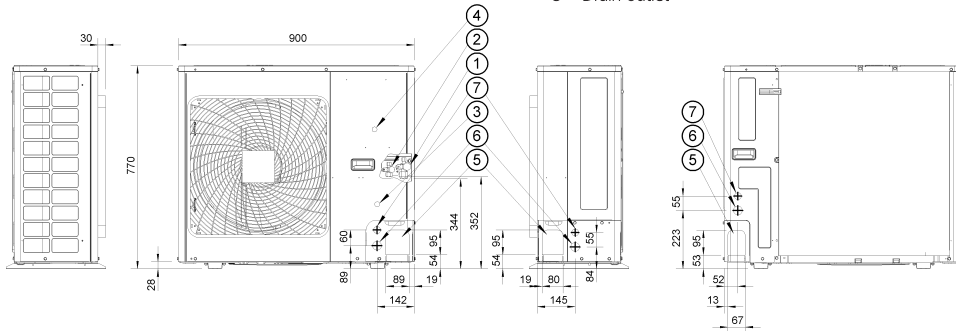
7 - 1 Dimensional Drawings

7

RZQSG71L3V1

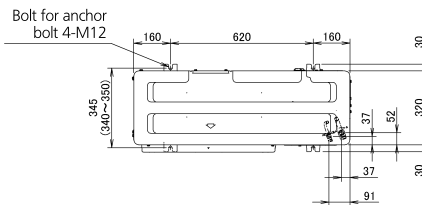


- 1 Gas pipe connection ϕ 15.9 flare
- 2 Liquid pipe connection - ϕ 9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock hole ϕ 34)
- 7 Control wiring intake (knock hole ϕ 27)
- 8 Drain outlet

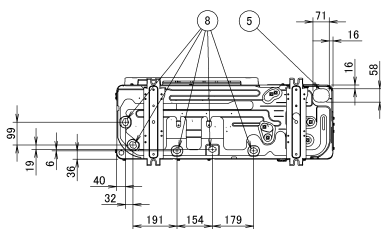
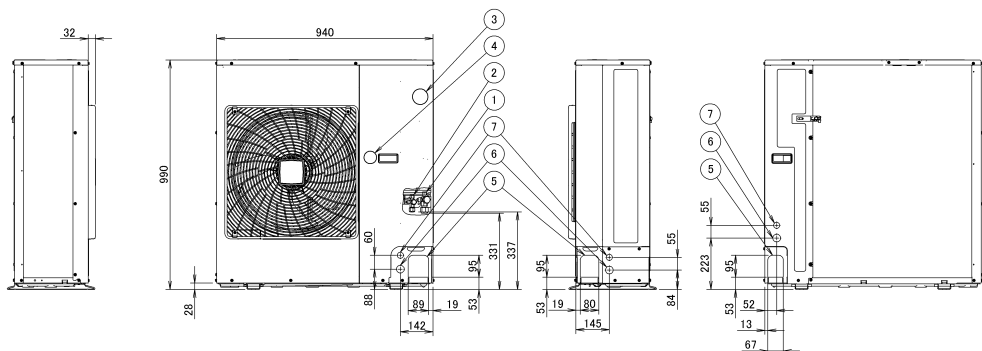


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RZQSG100-125L9V1



- 1 Gas pipe connection ϕ 15.9 flare
- 2 Liquid pipe connection - 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 ϕ 34)
- 7 Control wiring intake (Knock out hole ϕ 27)
- 8 Drain outlet

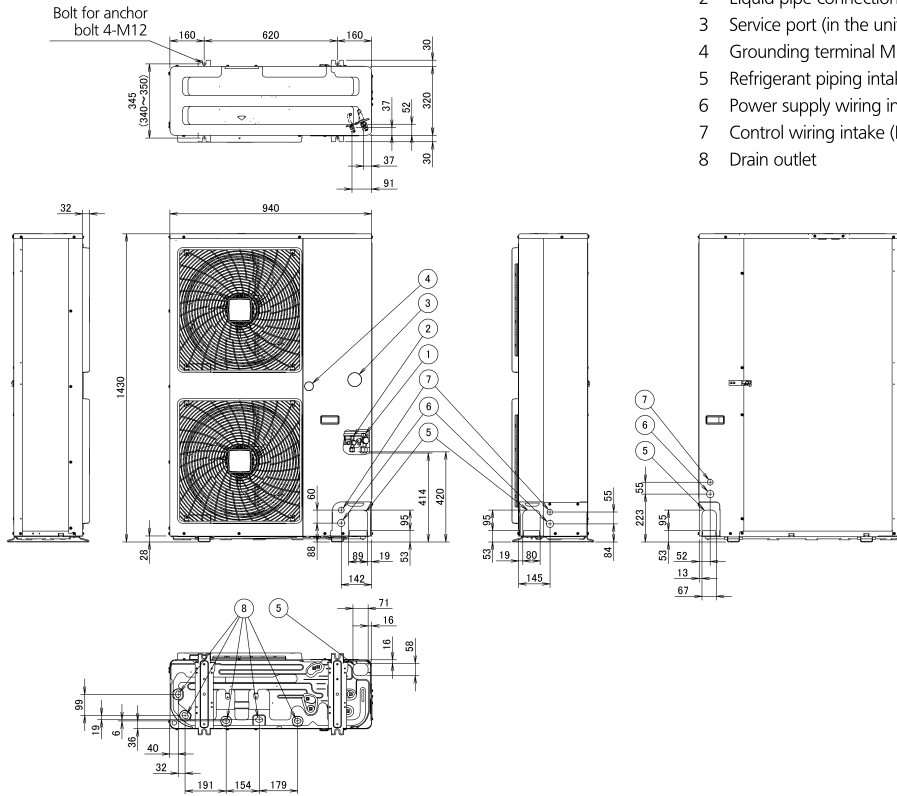


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7 Dimensional drawings

7 - 1 Dimensional Drawings

RZQSG140L9V1



- 1 Gas pipe connection ϕ 15.9 flare
- 2 Liquid pipe connection - 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 ϕ 34)
- 7 Control wiring intake (Knock out hole ϕ 27)
- 8 Drain outlet

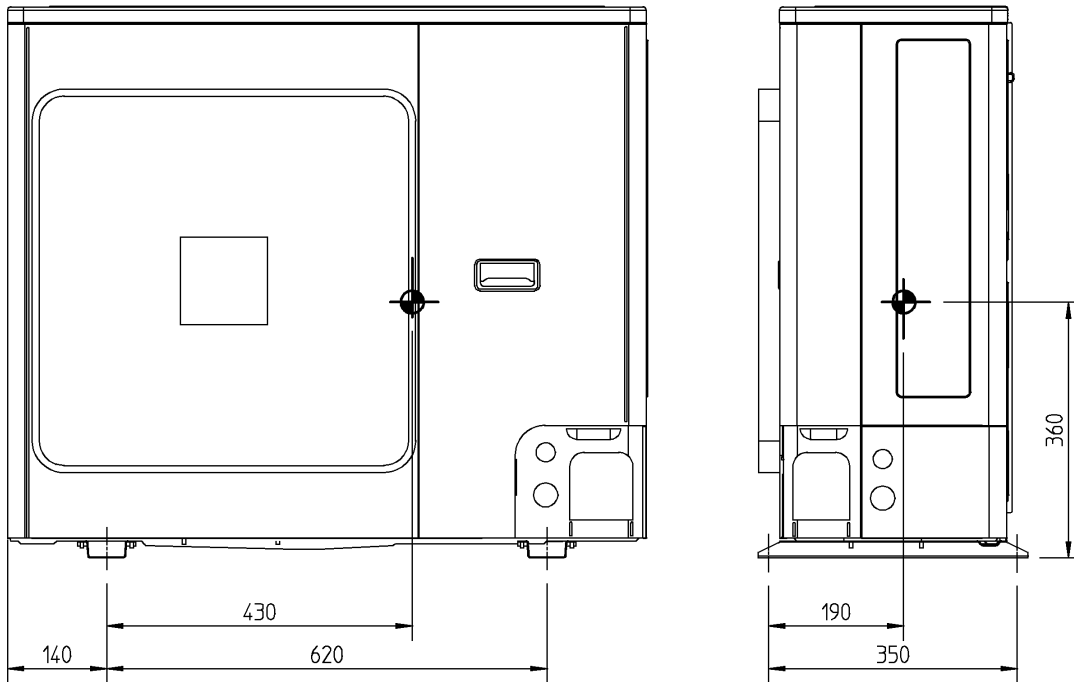
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8 Centre of gravity

8 - 1 Centre of Gravity

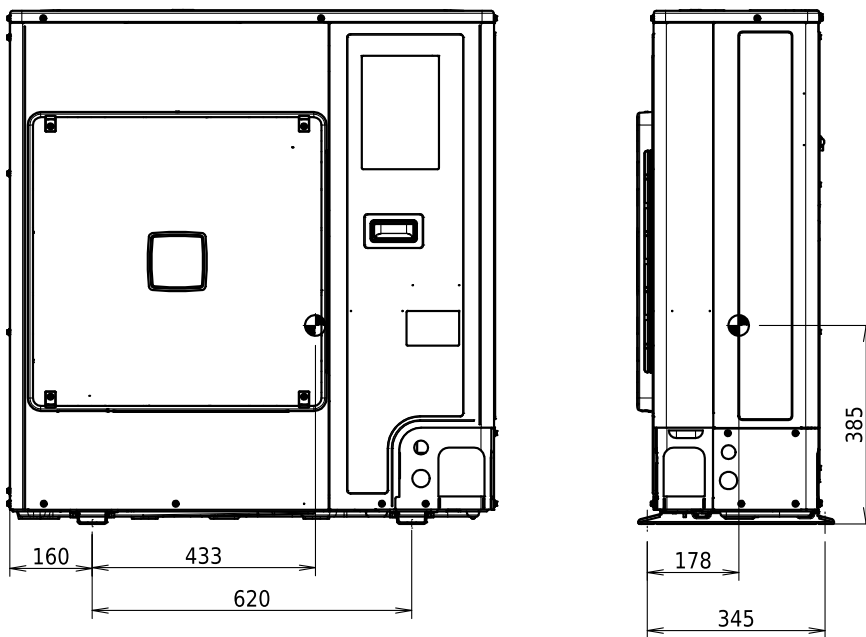
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RZQSG71L3V1



4TW30469-3

RZQSG100L9V1

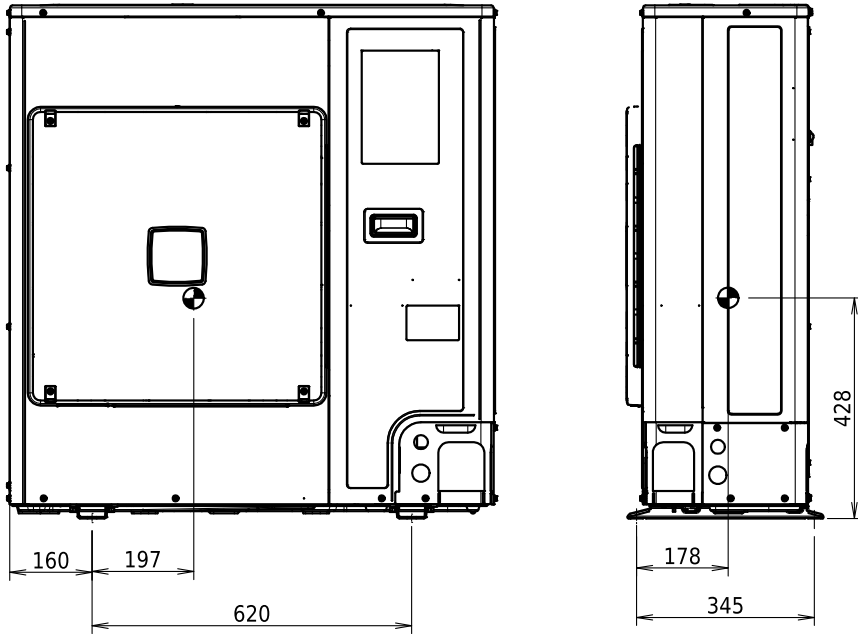


4D090895

8 Centre of gravity

8 - 1 Centre of Gravity

RZQSG125L9V1



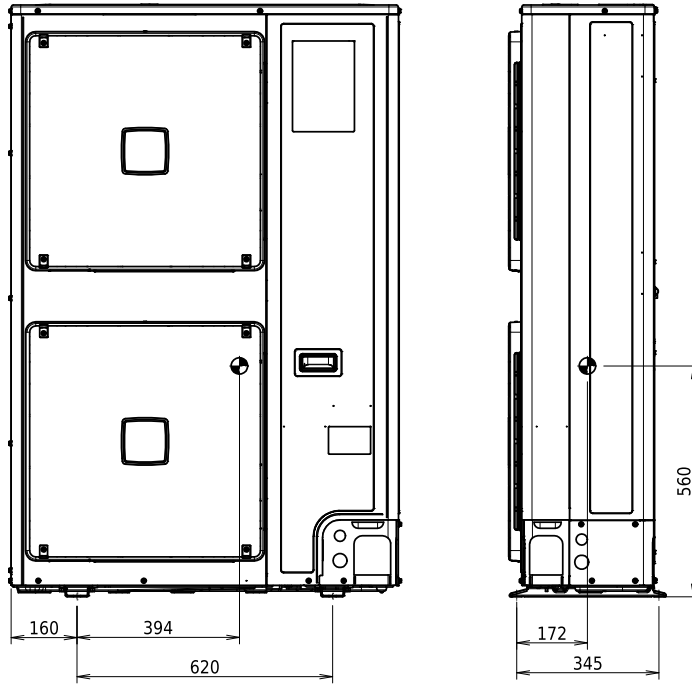
4D090896

8 Centre of gravity

8 - 1 Centre of Gravity

8

RZQSG140L9V1

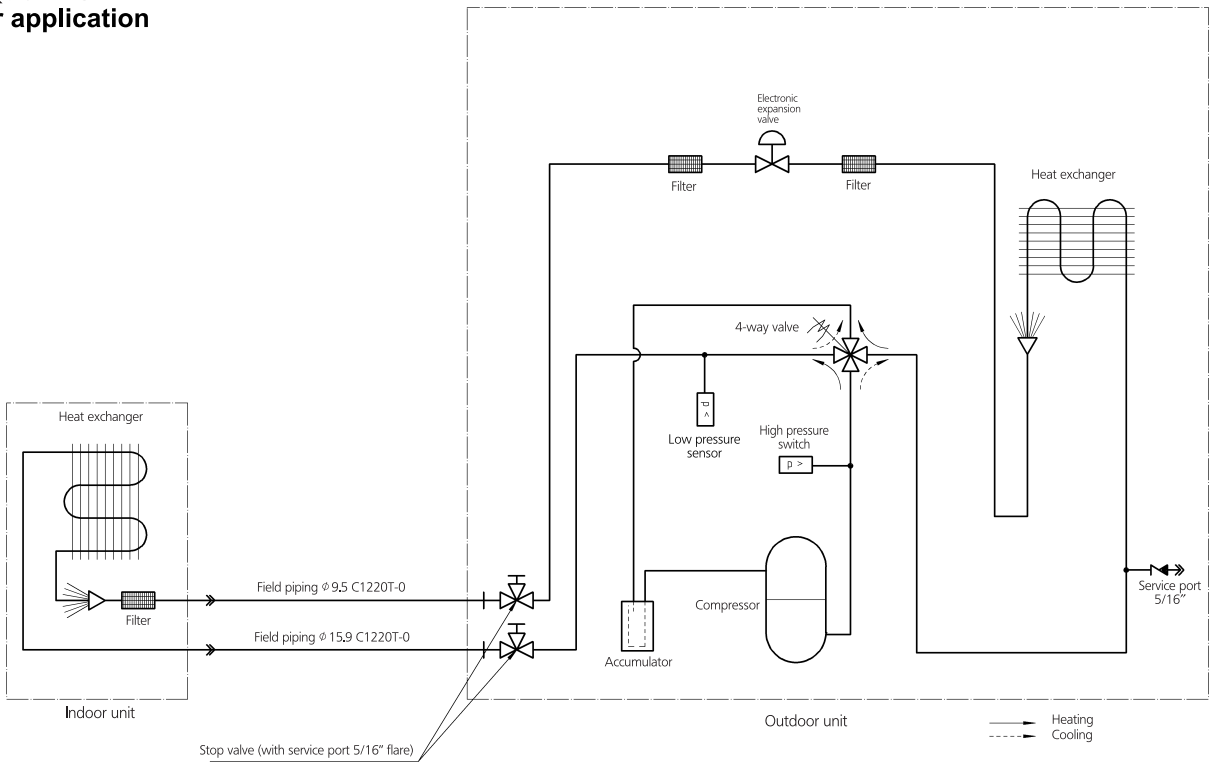


4D090897

9 Piping diagrams

9 - 1 Piping Diagrams

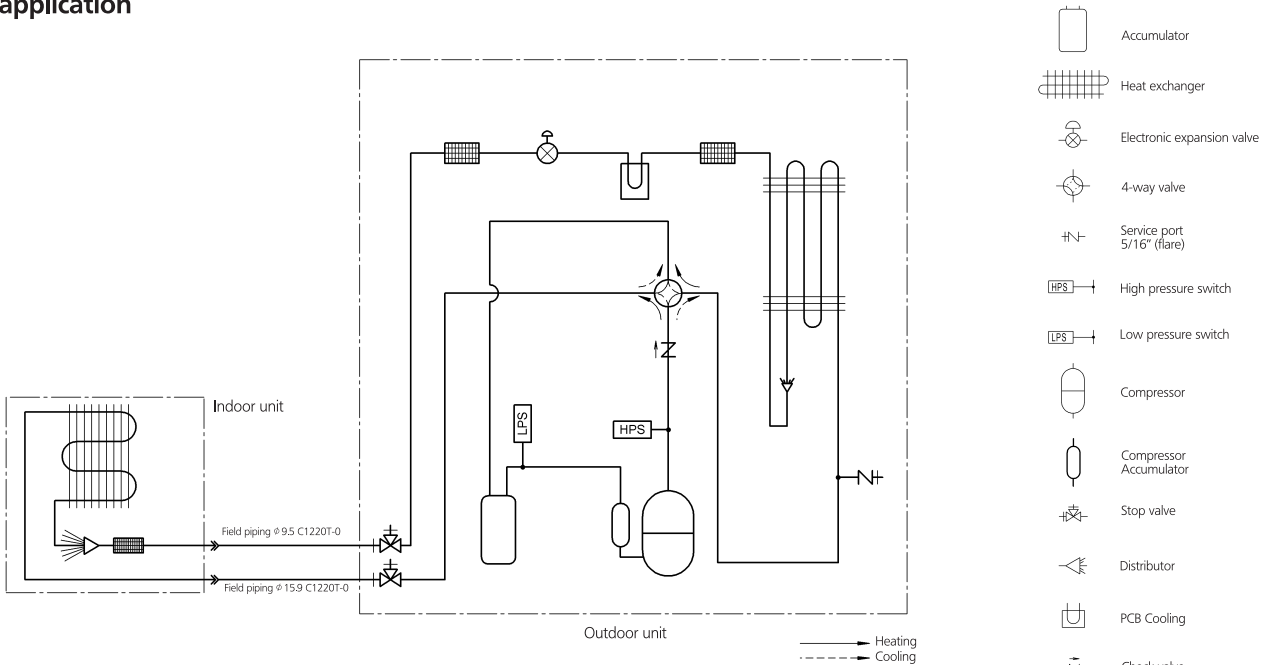
RZQSG71L3V1 Pair application



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

3TW29165-1

RZQSG100-140L9V1 Pair application



- Accumulator
- Heat exchanger
- Electronic expansion valve
- 4-way valve
- Service port 5/16" (flare)
- High pressure switch
- Low pressure switch
- Compressor
- Compressor Accumulator
- Stop valve
- Distributor
- PCB Cooling
- Check valve
- Filter

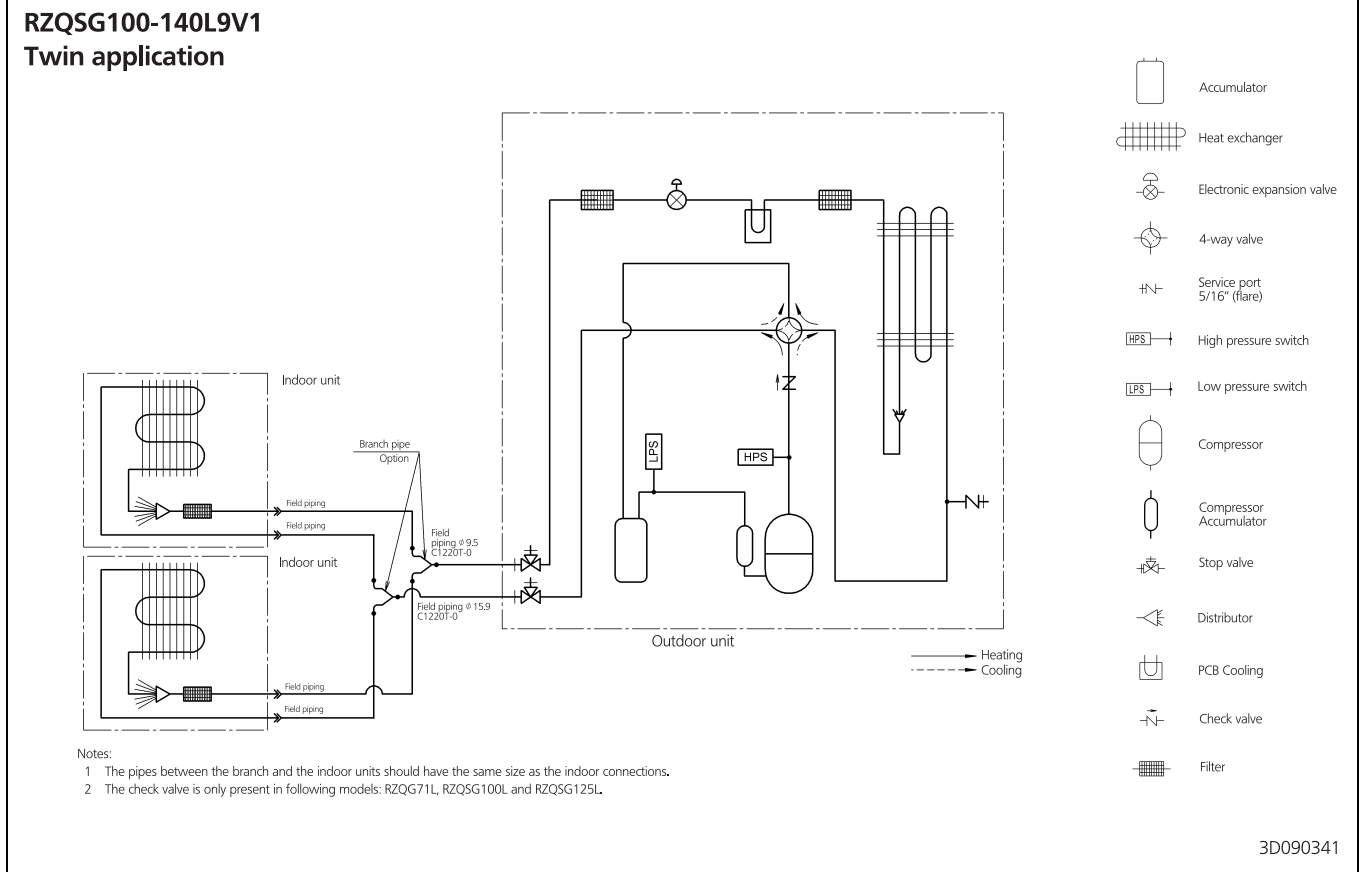
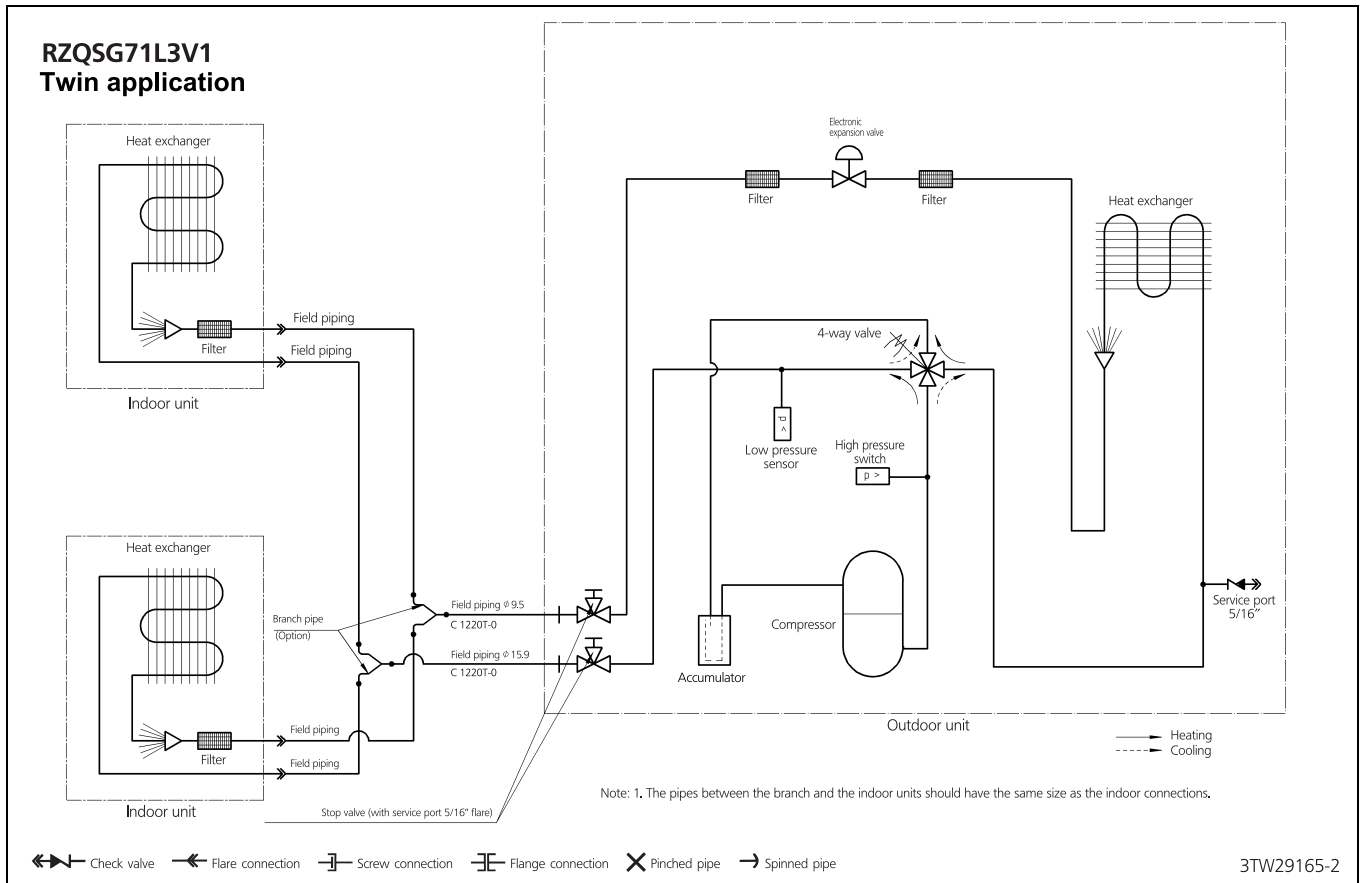
Notes:
 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
 2 The check valve is only present in following models: RZQG71L, RZQSG100L and RZQSG125L.

3D090340

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

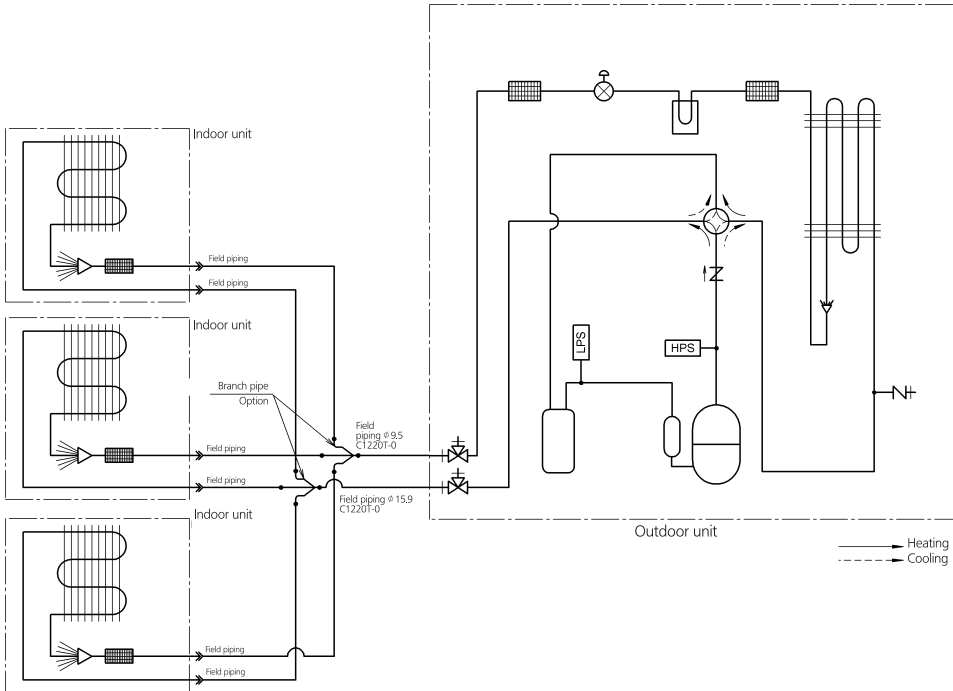
9



9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZQSG100-140L9V1 Triple application



- Accumulator
- Heat exchanger
- Electronic expansion valve
- 4-way valve
- Service port 5/16" (flare)
- High pressure switch
- Low pressure switch
- Compressor
- Compressor Accumulator
- Stop valve
- Distributor
- PCB Cooling
- Check valve
- Filter

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.

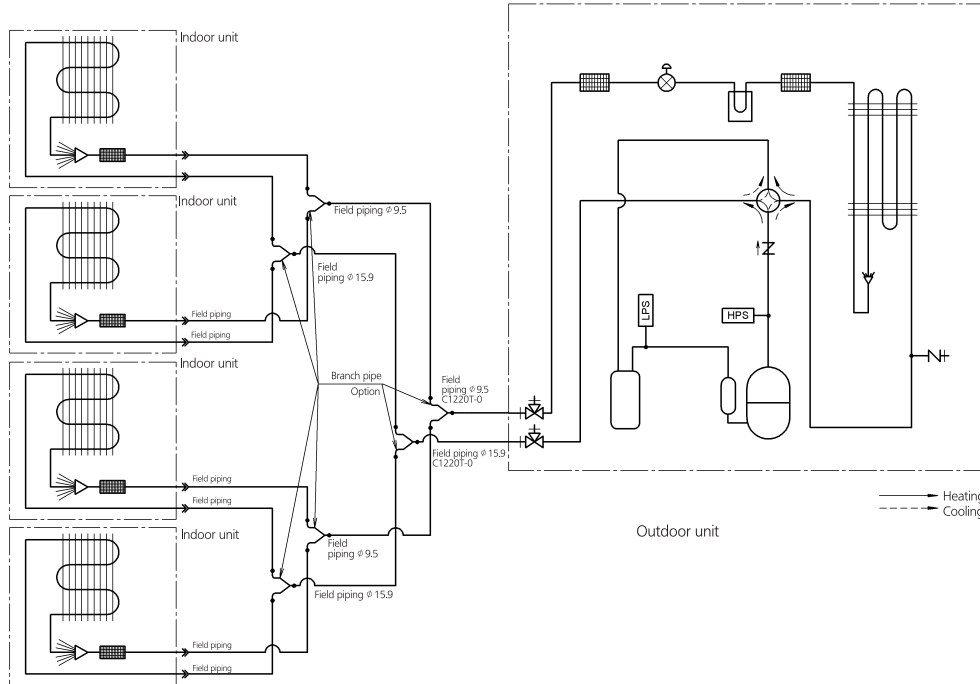
3D090342

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

9

RZQSG125-140L9V1 Double twin application



- Accumulator
- Heat exchanger
- Electronic expansion valve
- 4-way valve
- Service port 5/16" (flare)
- High pressure switch
- Low pressure switch
- Compressor
- Compressor Accumulator
- Stop valve
- Distributor
- PCB Cooling
- Check valve
- Filter

Notes:

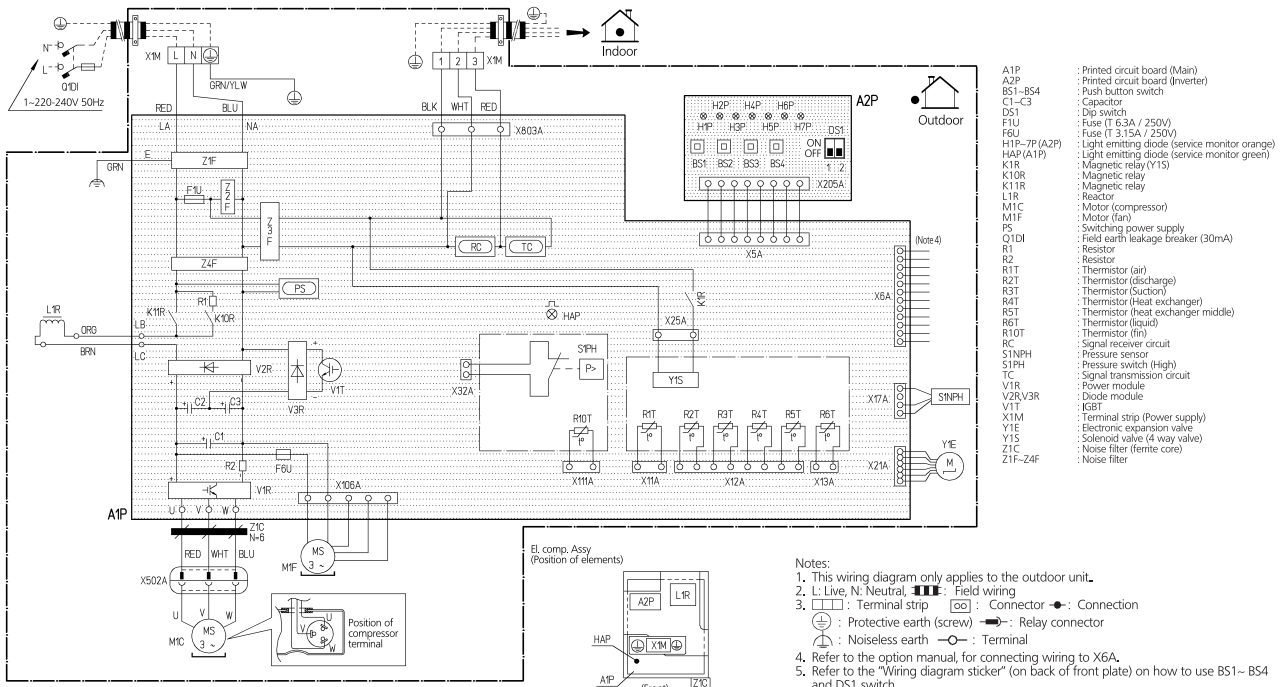
- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
- 2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

3D090343

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

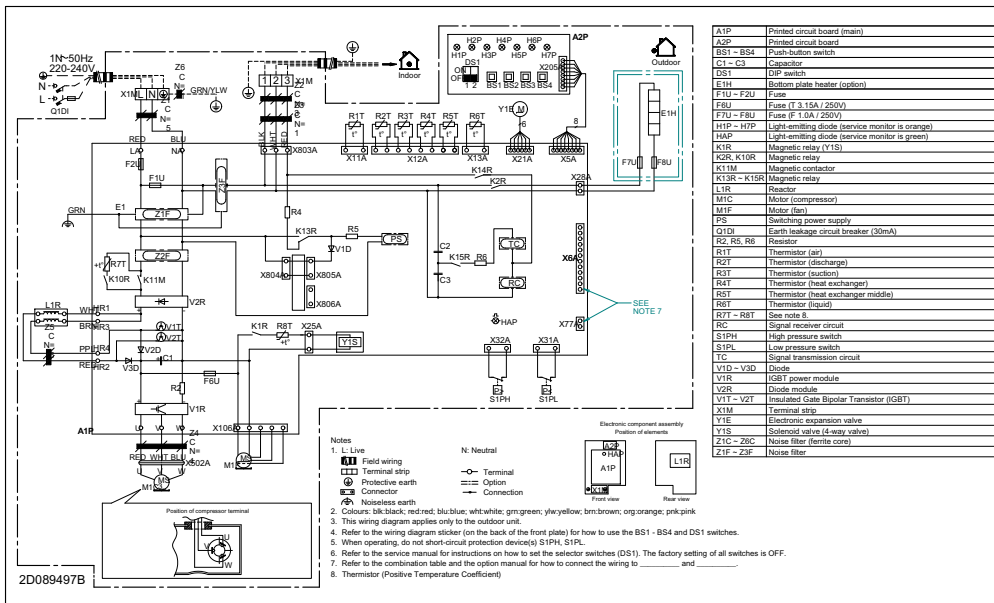
RZQSG71L3V1



- Notes:
- This wiring diagram only applies to the outdoor unit.
 - L: Live, N: Neutral, E: Field wiring
 - Terminal strip () Connector () Connection () Protective earth (screw) () Noiseless earth () Terminal () Relay connector
 - Refer to the option manual, for connecting wiring to X6A.
 - Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1- BS4 and DS1 switch.
 - Do not operate the unit by short-circuiting protection device S1PH.
 - Colours: WHT: White / RED: Red / BLU: Blue / ORG: Orange / BRN: Brown / GRN: Green / YLV: Yellow / BLK: Black
 - Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".

2TW30466-1B

RZQSG100L9V1



- Notes:
- L: Live
 - Colours: blk:black, red:red; blu:blue; wht:white; gm:green; ylv:yellow; brn:brown; org:orange; pink:pink
 - This wiring diagram applies only to the outdoor unit.
 - Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1 - BS4 and DS1 switches.
 - When operating, do not short-circuit protection device(s) S1PH, S1PL.
 - Refer to the service manual for instructions on how to set the selector switches (DS1). The factory setting of all switches is OFF.
 - Refer to the combination table and the option manual for how to connect the wiring to and
 - Thermistor (Positive Temperature Coefficient)

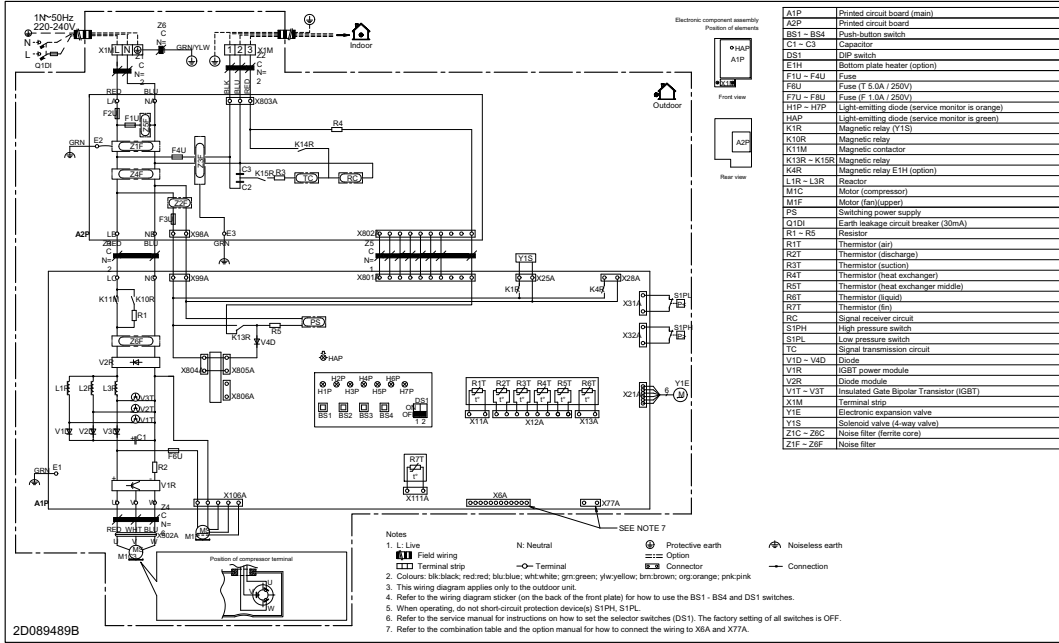
2D089497B

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

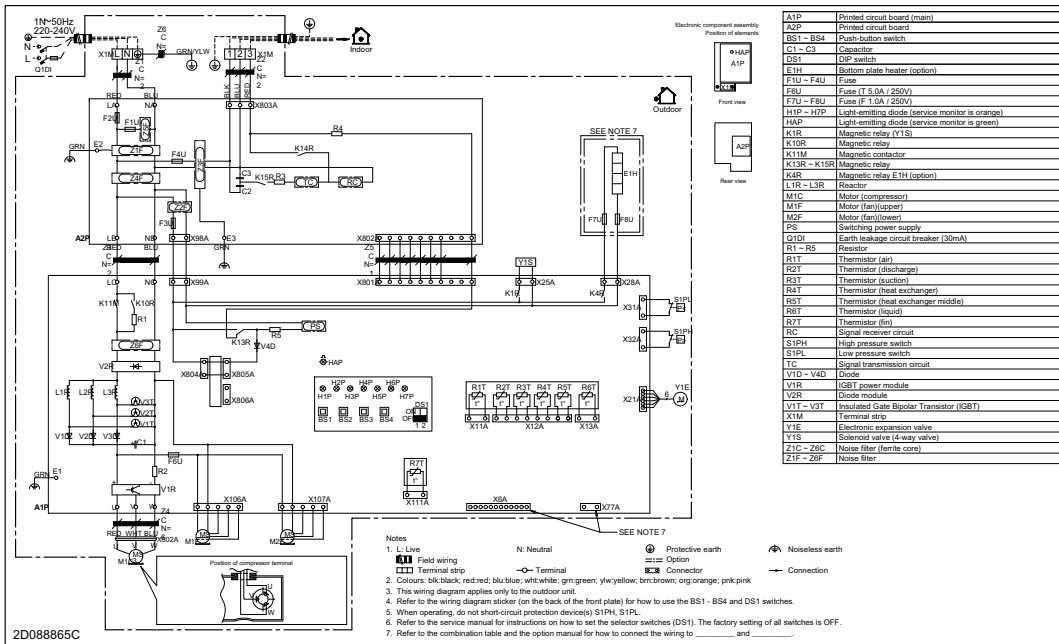
RZQSG125L9V1



2D089489B

2D089489B

RZQSG140L9V1

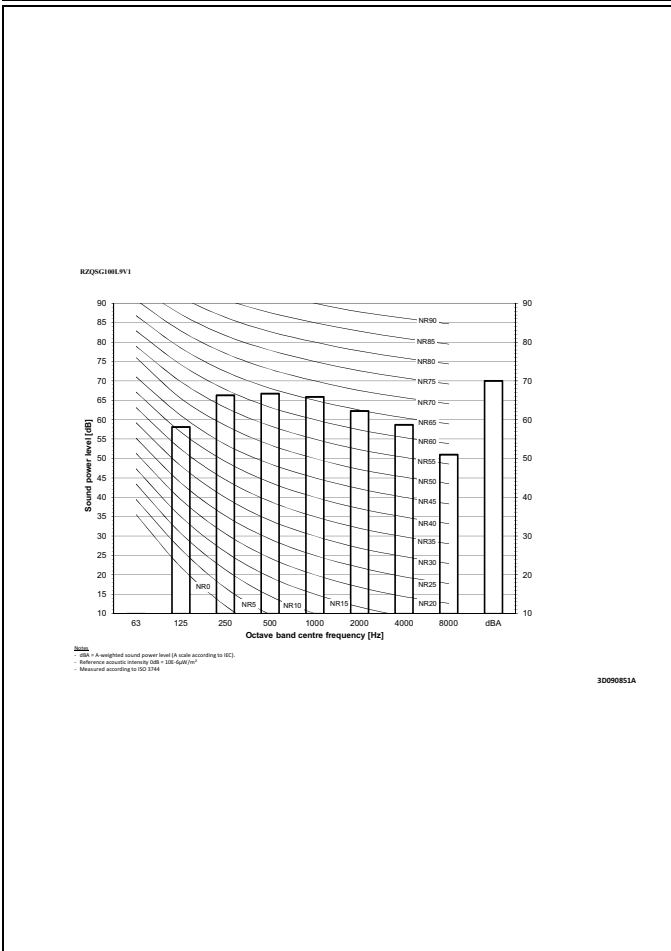
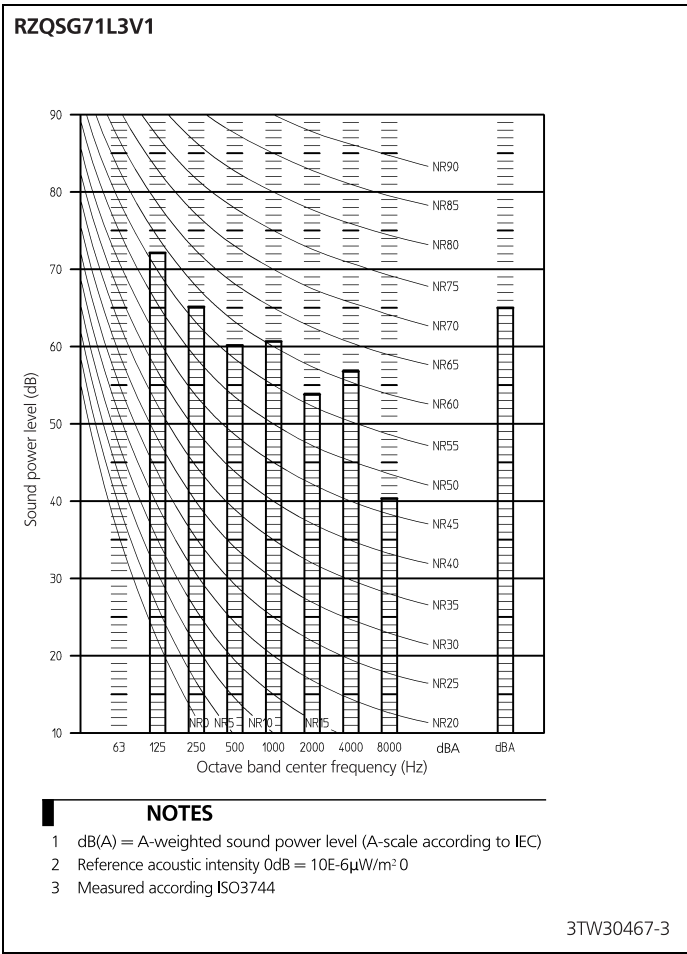


2D088865C

2D088865C

11 Sound data

11 - 1 Sound Power Spectrum

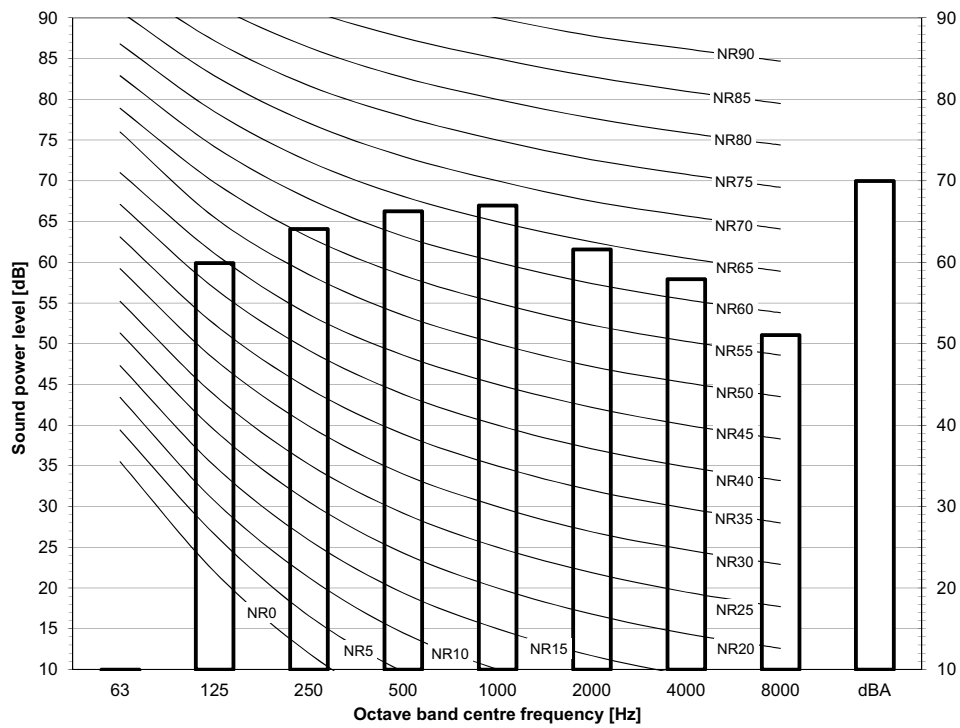


11 Sound data

11 - 1 Sound Power Spectrum

11

RZQSG125L9V1

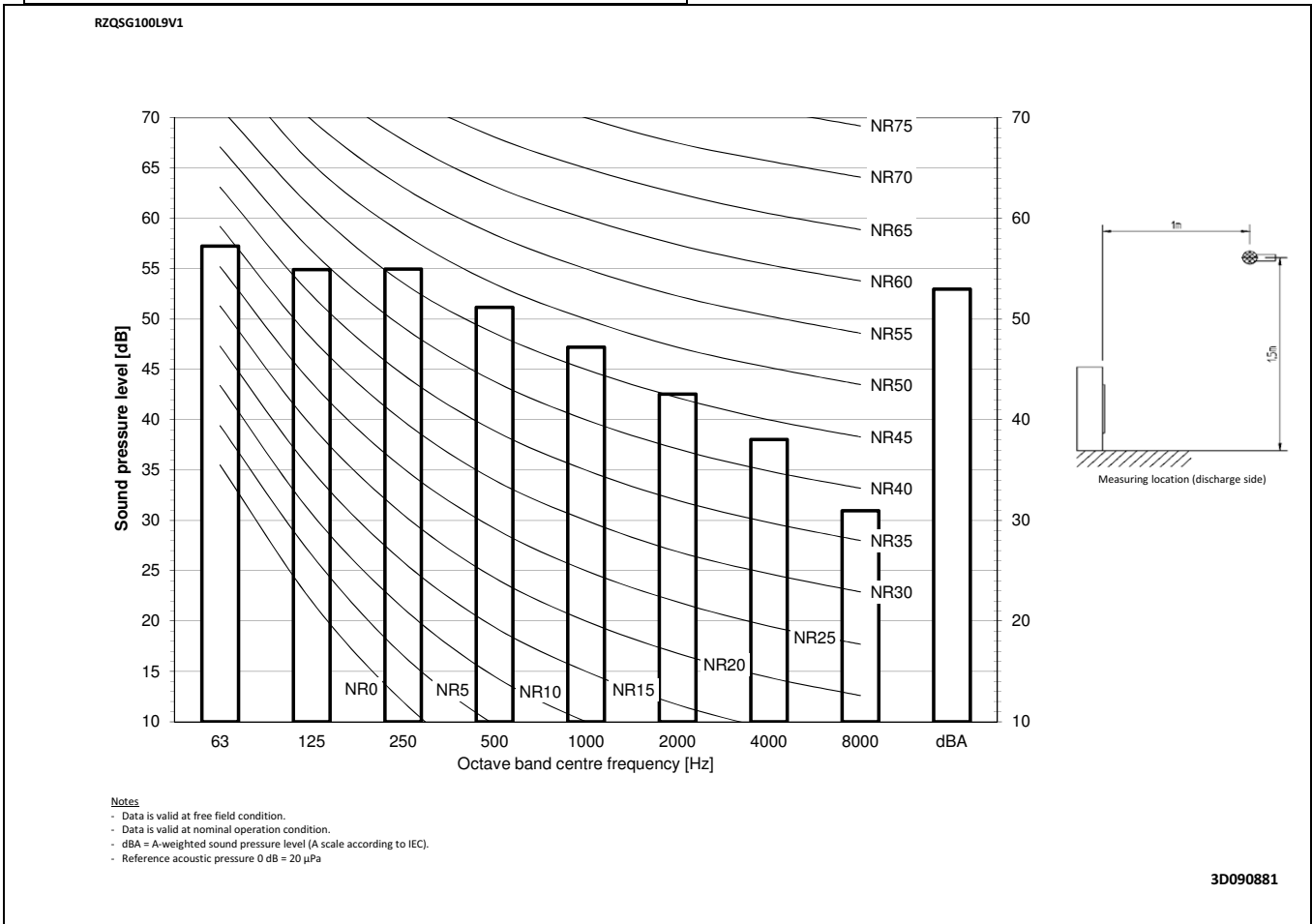
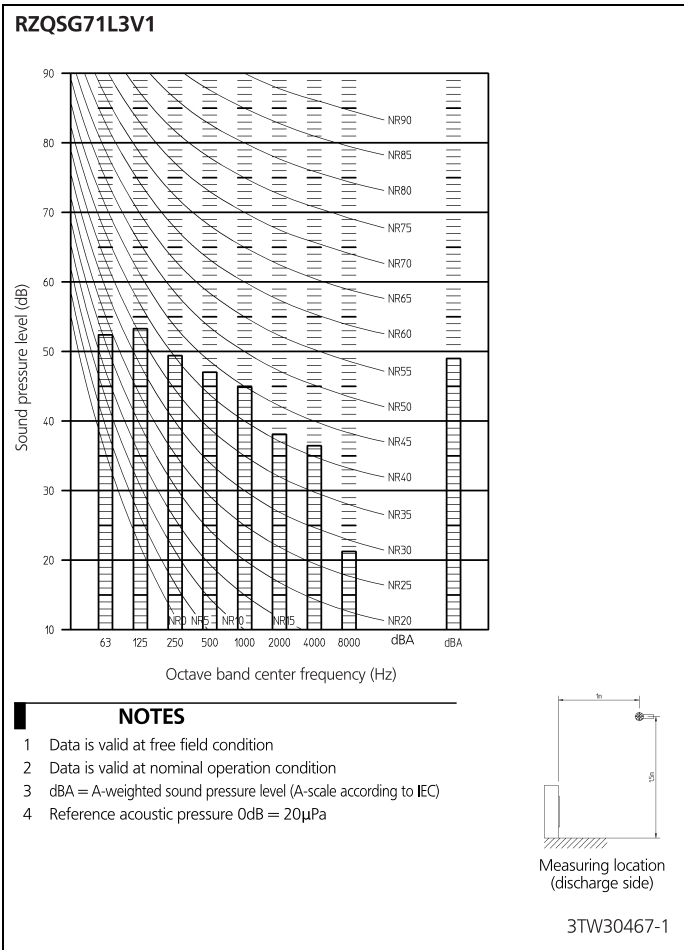


Notes
 - dBA - A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6µW/m²
 - Measured according to ISO 3744

3D090852A

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

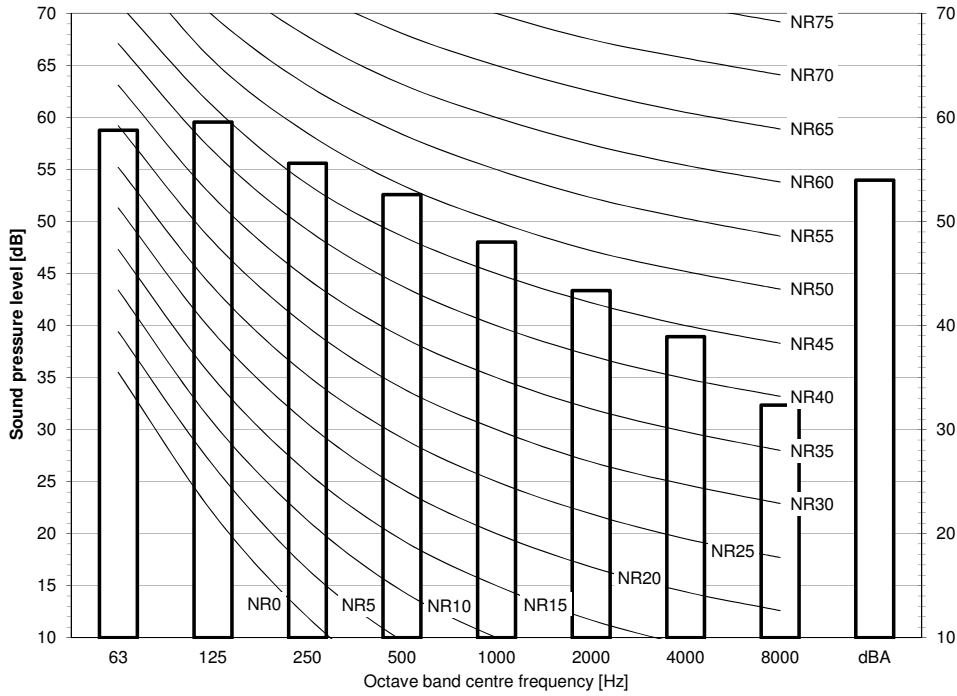


11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

11

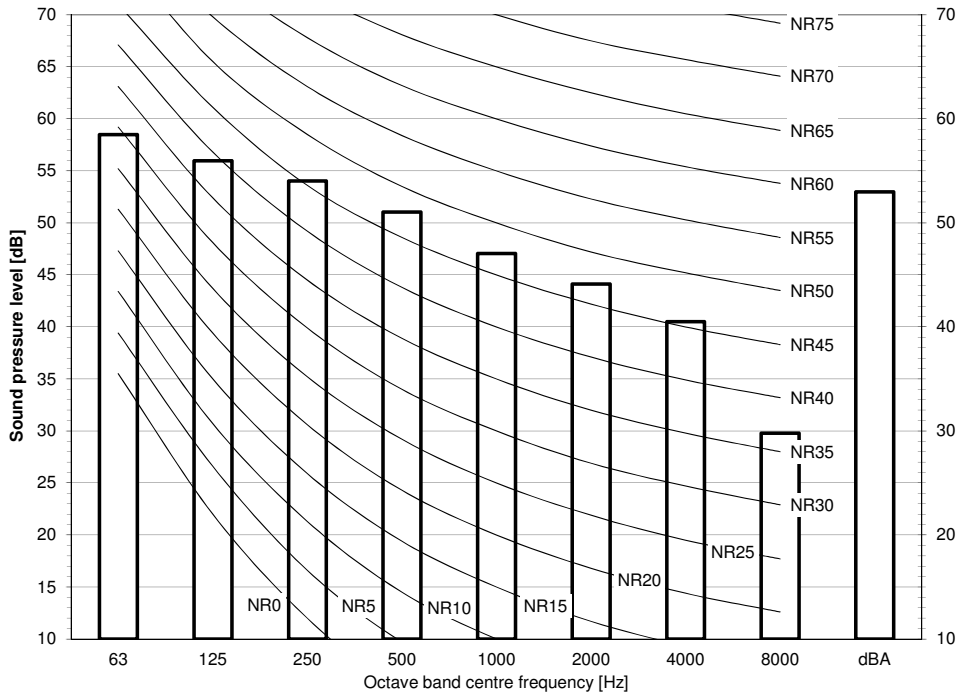
RZQSG125L9V1



- 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

3D090882

RZQSG140L9V1

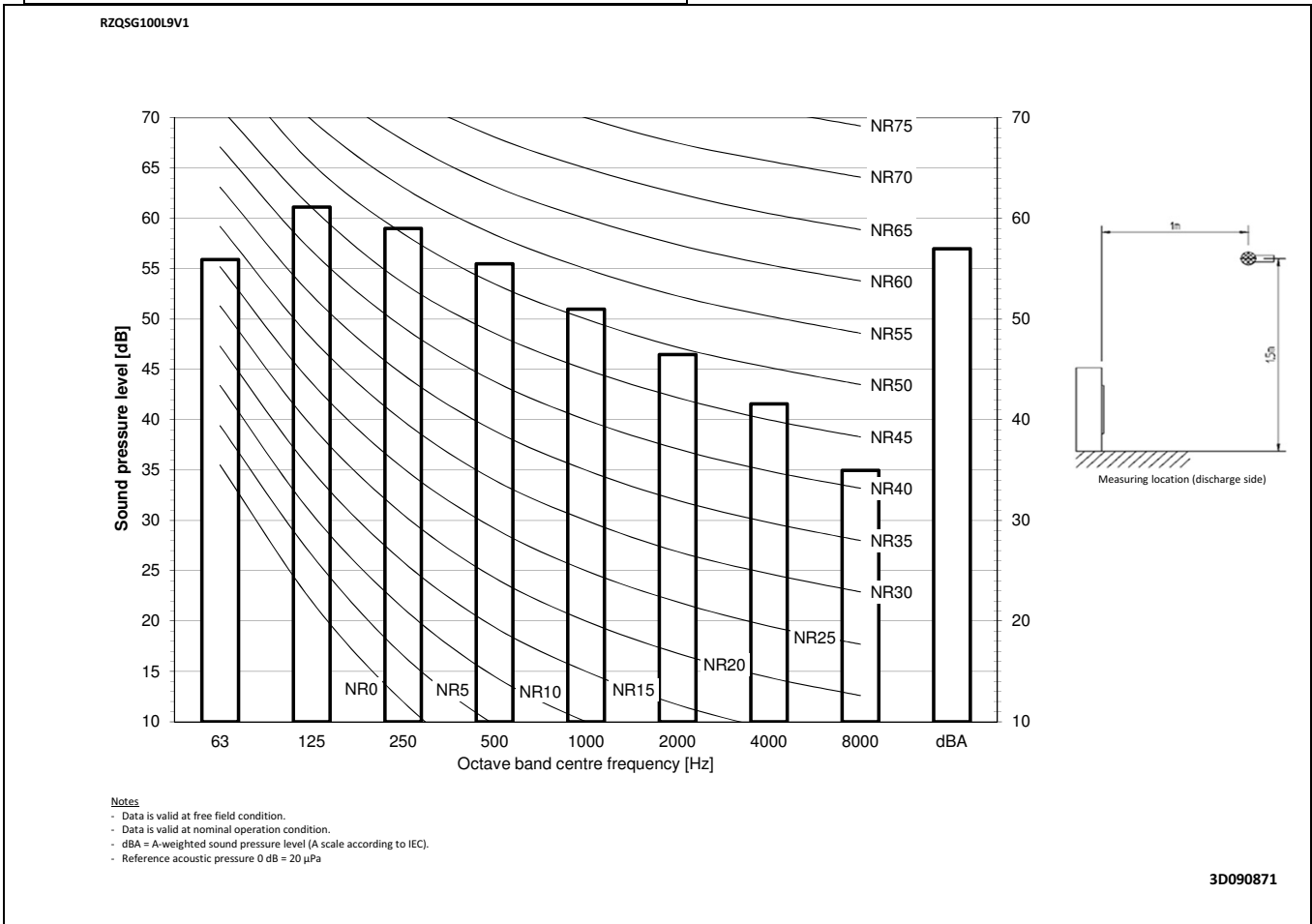
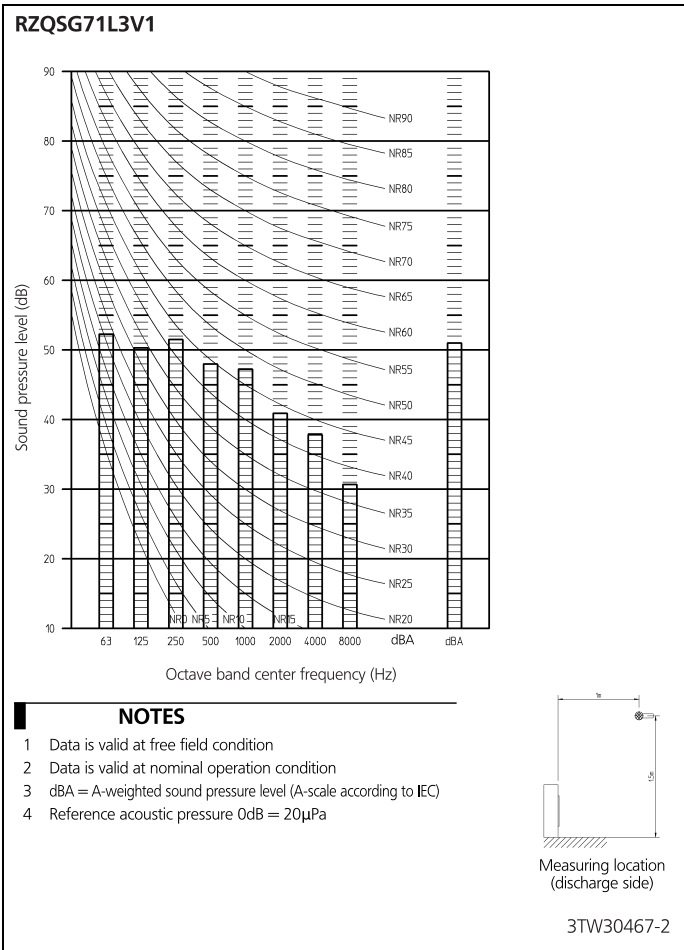


- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 µPa

3D090883

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

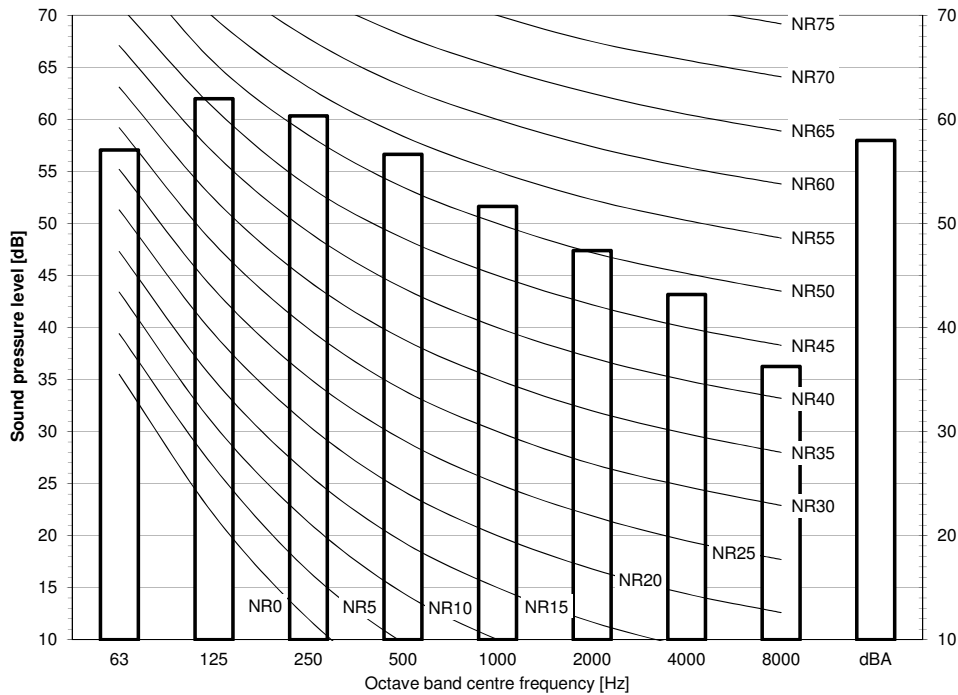


11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

11

RZQSG125L9V1

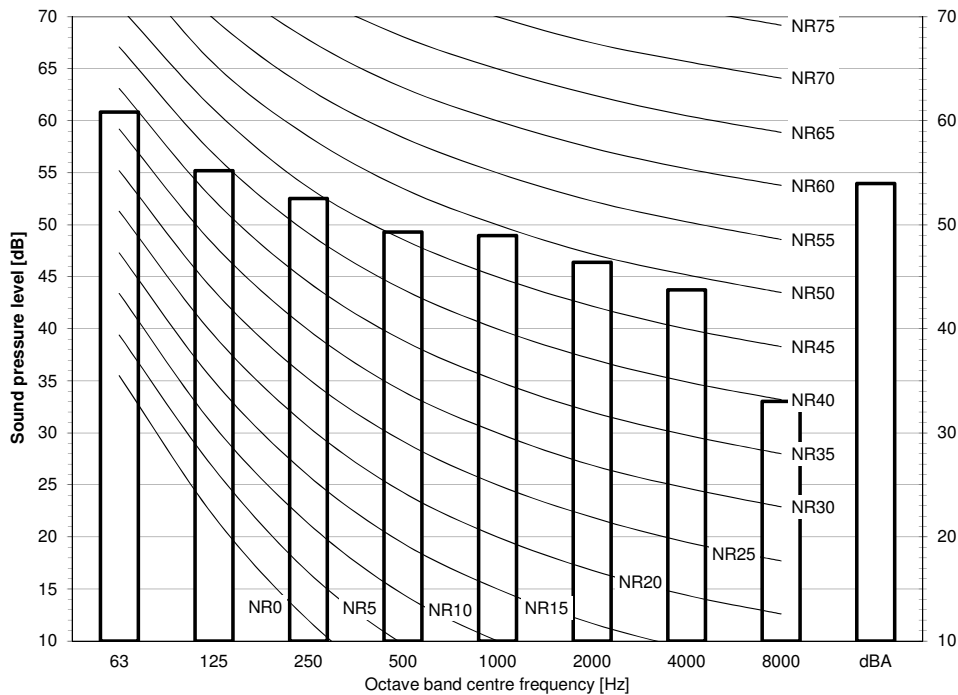


Notes

- 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

3D090872

RZQSG140L9V1



Notes

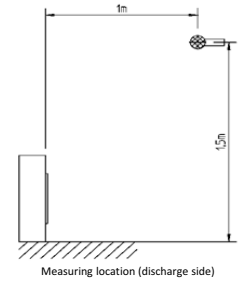
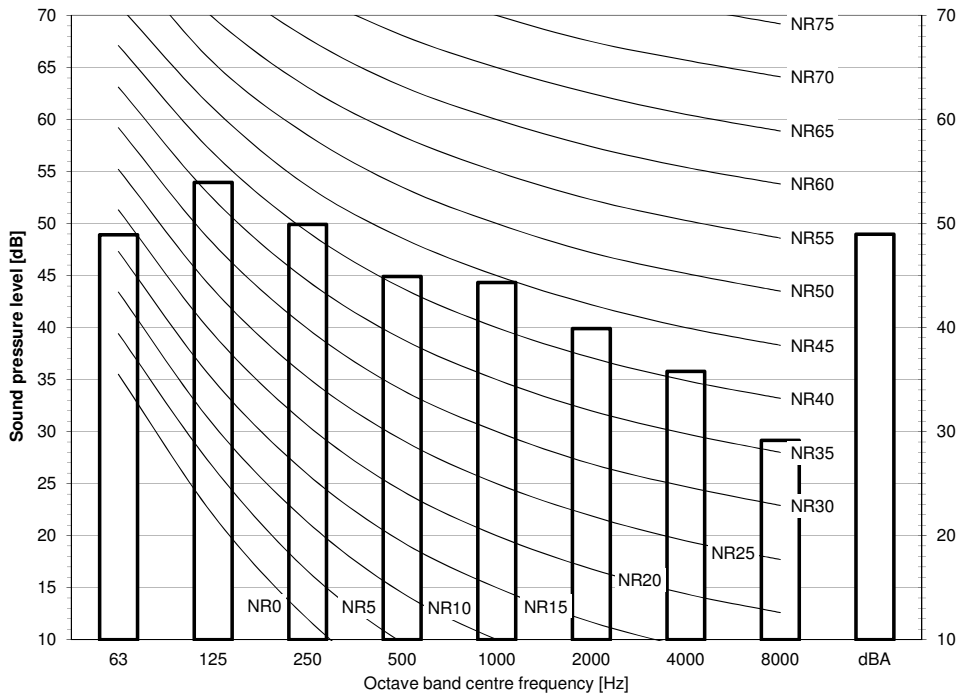
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090873

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

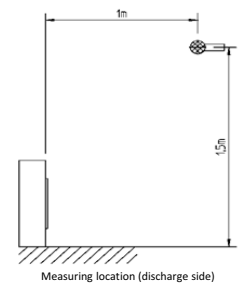
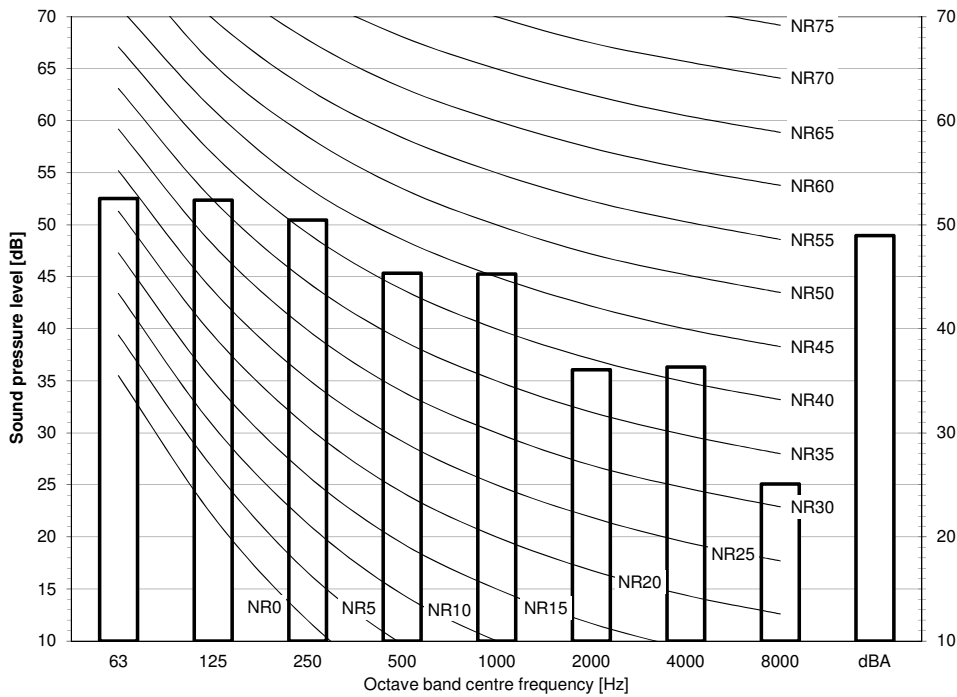
RZQSG100L9V1



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

3D090861

RZQSG125L9V1



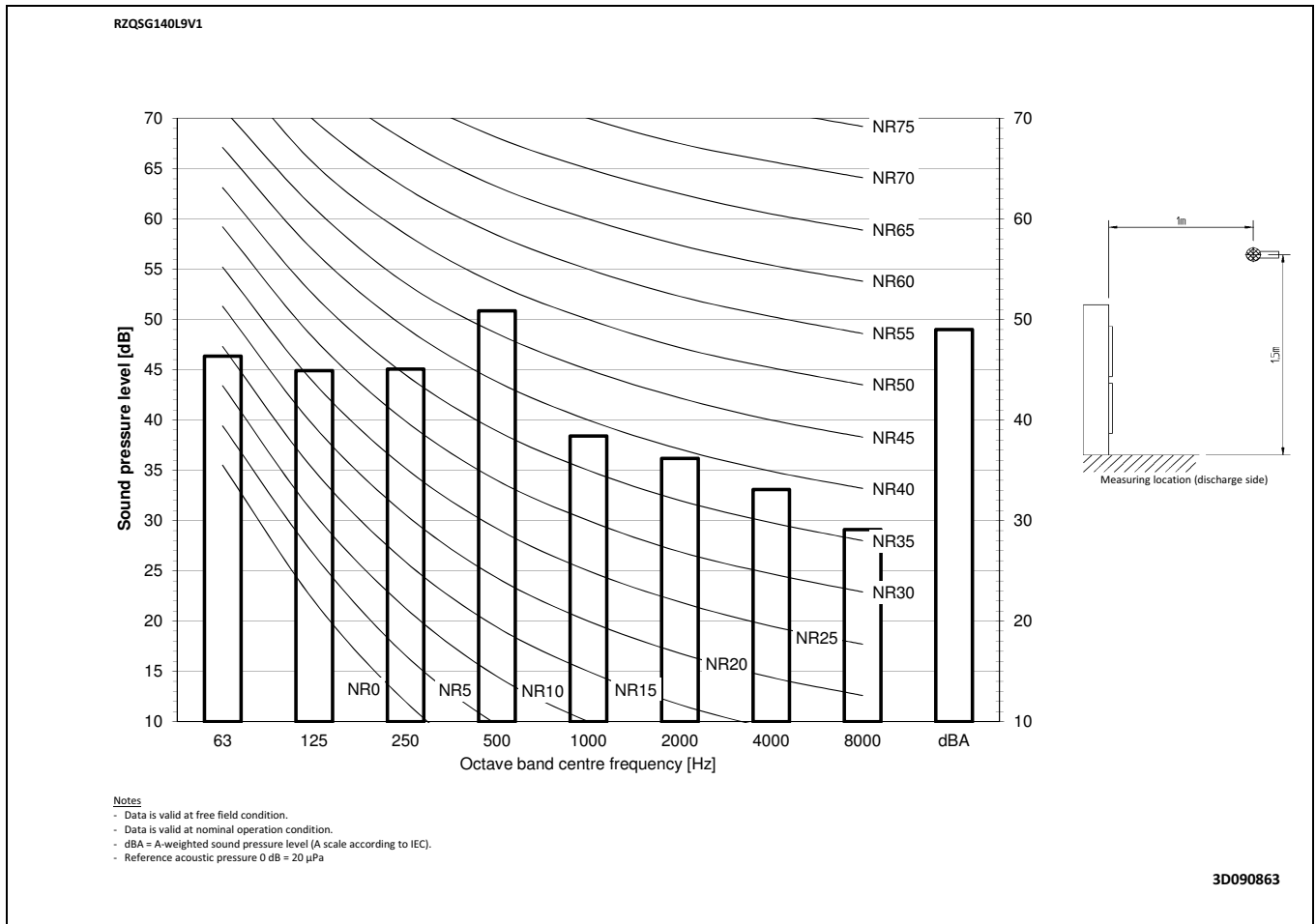
Notes
 - Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 µPa

3D090862

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

11



12 Installation

12 - 1 Installation Method

RZQSG71L3V1

A. Non stacked installation

	↖	↗	↘	↙		A	B1	B2	C	D1	D2	E	L1/L2	
	✓						≥50(100)							
	✓		✓	✓		≥100	≥100		≥100					
	✓				✓		≥100					≤500	≥1000	
	✓		✓	✓	✓		≥150	≥150		≥150		≤500	≥1000	
		✓										≥500		
			✓									≥500	≥1000	
	✓	✓				L1<L2	≥50(100)					≥500		
				✓		L2<L1	≥50(100)					≥500		
					✓	L1+L2	≥150(250)	≤500			≥750		≥1000	0<L1≤1/2H 0<L1≤1/2H
	✓	✓				L1+L2	≥150(250)	≤500			≥1000		≥1000	0<L1≤1/2H 0<L1≤1/2H
	✓		✓	✓		≥200	≥200(300)		≥1000			≤500	≥1000	
	✓		✓	✓		≥200	≥200(300)		≥1000			≤500	≥1000	
		✓			✓							≥1000		
			✓			L1<L2	≥200(300)					≥1000		
				✓		L2<L1	≥150(250)					≥1000		
					✓	L1+L2	≥150(250)	≤500			≥1000		≥1000	0<L1≤1/2H 1/2H<L2≤H
	✓	✓				L1+L2	≥150(250)	≤500			≥1000		≥1000	0<L1≤1/2H 1/2H<L2≤H
					✓	L1+L2	≥200(300)	≤500			≥1000		≥1000	0<L1≤1/2H 1/2H<L2≤H
					✓	L1+L2	≥200(300)	≤500			≥1000		≥1000	0<L1≤1/2H 1/2H<L2≤H
					✓	L1+L2	≥200(300)	≤500			≥1000		≥1000	0<L1≤1/2H 1/2H<L2≤H

Legend Unit: mm

- Suction side obstacle
- Discharge side obstacle
- Left side obstacle
- Right side obstacle
- Top side obstacle
- Obstacle is present

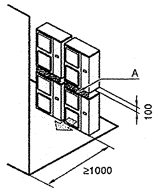
1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

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

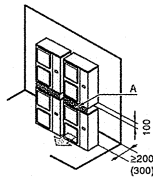
This situation is not allowed.

B. Stacked installation

1. Obstacles exist in front of the outlet side



2. Obstacles exist in front of the air inlet

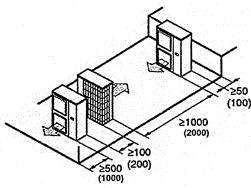


Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

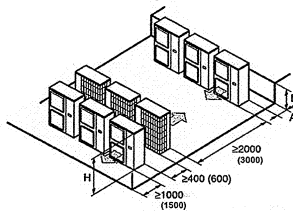
Figures between () indicate the dimensions only for the 100-125-140 class models.

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 ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

12 Installation

12 - 1 Installation Method

RZQSG100-140L9V1

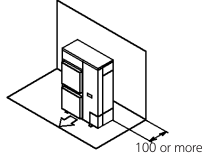
Installation service space

The measure of these values is "mm".

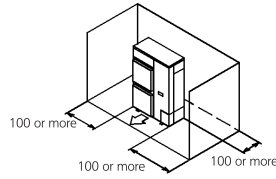
(A) When there are obstacles on suction sides.

• No obstacle above

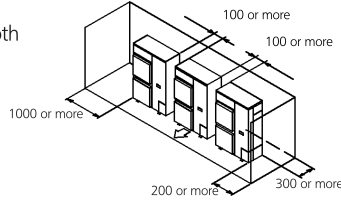
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

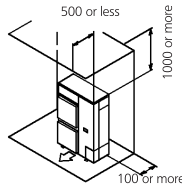


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

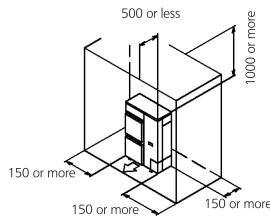


• Obstacle above, too.

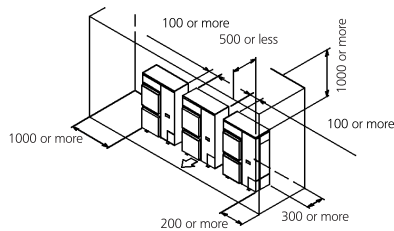
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



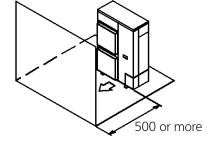
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



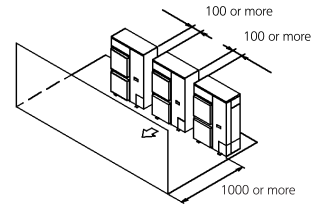
(B) When there are obstacles on discharge sides.

• No obstacle above

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

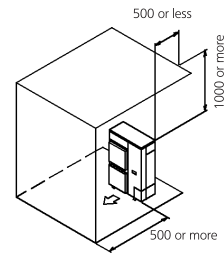


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

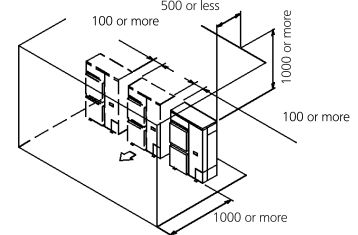


• Obstacle above, too

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



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



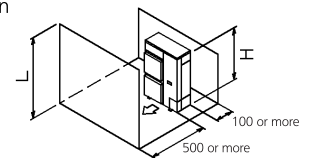
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

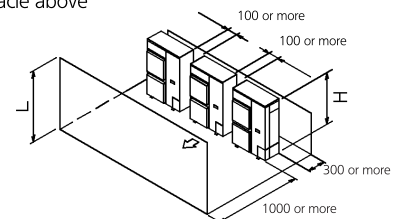
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• 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

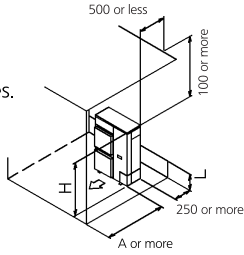
RZQSG100-140L9V1

● 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
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	750 or more 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.

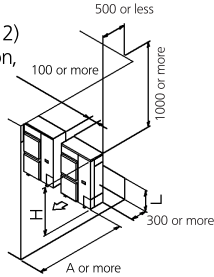
The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	1000 or more 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.

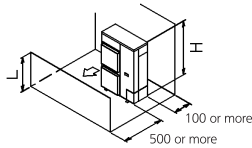
Pattern 2

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

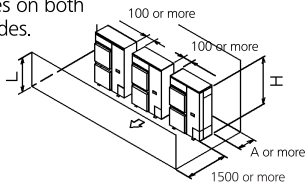
- ① Stand-alone installation
 - No obstacle above



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

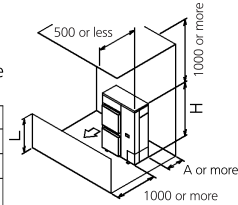


● Obstacle above, too

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

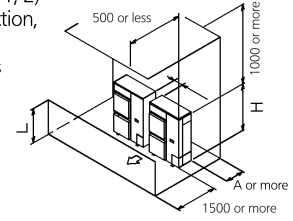


- ② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.
- The relations between H, A and L are as follows.

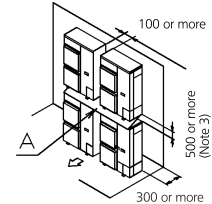
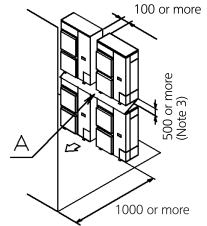
	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 300 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.



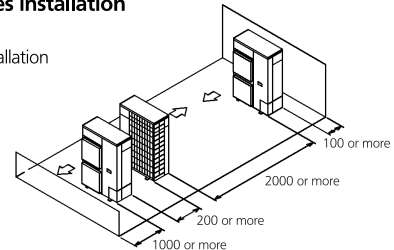
(D) Double-decker installation

- 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.)

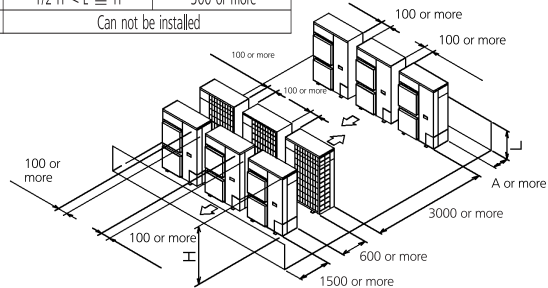
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

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

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



NOTES

- In case of the sideways's 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 re-intake of discharged air.

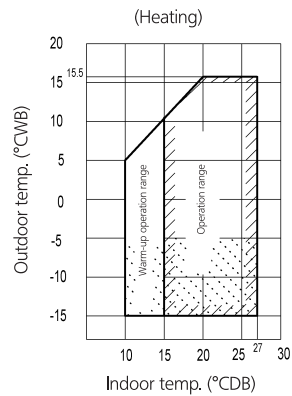
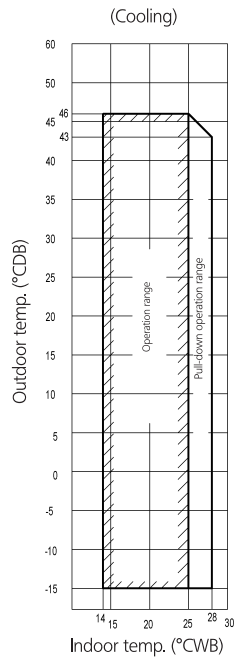
3D069554

13 Operation range


13 - 1 Operation Range

13

RZQSG-L3/9V1



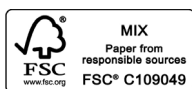
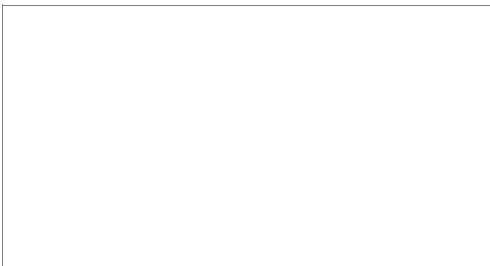
Notes:

- 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.

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