



Air Conditioners

Technical Data

Outdoor unit - Optimized for seasonal efficiency



EEDEN12-100

RZQSG-LV1

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RZQSG-LV1

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1 Features

- Seasonal efficiency, optimized for all seasons.
- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Re-use of existing R-22 or R-407C technology
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- Maximum piping length up to 50m, minimum piping length has no limitation
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall



2 Specifications

2-1 Nominal Capacity And Nominal Input				FCQHG71FVEB / RZQSG71L2V1B	FCQHG100FVEB / RZQSG100L7V1B	FCQHG125FVEB / RZQSG125L7V1B	FCQHG140FVEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.12	2.57	3.71	4.17
	Heating	Nom.	kW	2.08	2.51	3.60	4.29
EER				3.21	3.70	3.23	3.21
COP				3.61	4.30	3.75	3.61
SEER				-	5.70 (6)	5.21 (6)	-
SCOP				-	3.91 (6)	3.81 (6)	-
Annual energy consumption			kWh	1,059	1,285	1,855	2,085
Energy label	Cooling			A			
	Heating			A			

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-1 Nominal Capacity And Nominal Input				FCQG71FVEB / RZQSG71L2V1B	FCQG100FVEB / RZQSG100L7V1B	FCQG125FVEB / RZQSG125L7V1B	FCQG140FVEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.94	2.88	3.74	3.45
	Heating	Nom.	kW	1.83	3.05	3.96	4.54
EER				3.5	3.30	3.21	3.01
COP				4.1	3.54	3.41	
SEER				-	5.11 (6)		-
SCOP				-	3.80 (6)	3.81 (6)	-
Annual energy consumption			kWh	971	1,440	1,870	1,725
Energy label	Cooling			A			B
	Heating			A		B	

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2 Specifications

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2-1 Nominal Capacity And Nominal Input				FAQ71CVEB / RZQSG71L2V1B	FAQ100CVEB / RZQSG100L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)
Power input	Cooling	Nom.	kW	2.12	3.16
	Heating	Nom.	kW	2.08	3.17
EER				3.21	3.01
COP				3.61	3.41
SEER				-	4.61 (6)
SCOP				-	3.81 (6)
Annual energy consumption			kWh	1,059	1,580
Energy label	Cooling			A	B
	Heating			A	B

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-1 Nominal Capacity And Nominal Input				FVQ71CVEB / RZQSG71L2V1B	FVQ100CVEB / RZQSG100L7V1B	FVQ125CVEB / RZQSG125L7V1B	FVQ140CVEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.12	2.96	4.27	4.45
	Heating	Nom.	kW	2.08	2.99	3.96	4.54
EER				3.21		2.81	3.01
COP				3.61		3.41	
SEER				-	5.11 (6)	4.31 (6)	-
SCOP				-	3.80 (6)	3.81 (6)	-
Annual energy consumption			kWh	1,059	1,480	2,135	2,225
Energy label	Cooling			A			B
	Heating			A		B	

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2 Specifications

2-1 Nominal Capacity And Nominal Input				FBQ71C8VEB / RZQSG71L2V1B	FBQ100C8VEB / RZQSG100L7V1B	FBQ125C8VEB / RZQSG125L7V1B	FBQ140C8VEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.07	2.87	3.74	4.44
	Heating	Nom.	kW	2.08	2.96	3.85	4.54
EER				3.28	3.31	3.21	3.02
COP				3.61	3.65	3.51	3.41
SEER				-	5.11 (6)	4.35 (6)	-
SCOP				-	3.81 (6)		-
Annual energy consumption			kWh	1,037	1,435	1,870	2,220
Energy label	Cooling		A				B
	Heating		A			B	

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-1 Nominal Capacity And Nominal Input				FHQG71C8VEB / RZQSG71L2V1B	FHQG100C8VEB / RZQSG100L7V1B	FHQG125C8VEB / RZQSG125L7V1B	FHQG140C8VEB / RZQSG140L7V1B
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.97	2.96	4.15	4.45
	Heating	Nom.	kW	1.88	2.99	3.73	4.54
EER				3.46	3.21	2.89	3.01
COP				4.00	3.61	3.62	3.41
SEER				-	5.11 (6)	4.61 (6)	-
SCOP				-	3.80 (6)	3.81 (6)	-
Annual energy consumption			kWh	983	1,480	2,075	2,225
Energy label	Cooling		A			C	B
	Heating		A				B

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2 Specifications

2-1 Nominal Capacity And Nominal Input				FDQ125C7VEB / RZQSG125LV1B	
Cooling capacity	Nom.		kW	12.0 (3)	
Heating capacity	Nom.		kW	13.5 (4)	
Power input	Cooling	Nom.	kW	3.74	
	Heating	Nom.	kW	3.85	
EER				3.21	
COP				3.51	
SEER				4.35 (6)	
SCOP				3.81 (6)	
Annual energy consumption			kWh	1,870	
Energy label	Cooling			A	
	Heating			B	

Notes

- (1) Energy label: scale from A (most efficient) to G (less efficient)
- (2) Annual energy consumption: based on average use of 500 running hours per year at full load (nominal conditions)
- (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (5) Annual energy consumption is according to Energy labeling directive 2002/31/EC
- (6) SEER and SCOP are according to EN 14825

2-2 Technical Specifications				RZQSG71LV1	RZQSG100LV1	RZQSG125LV1	RZQSG140LV1	
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	81		102	
	Packed unit		kg	71	92		115	
Heat exchanger	Length		mm	857	904			
	Rows	Quantity		2				
	Fin pitch		mm	1.4				
	Passes	Quantity		8	12		16	
	Face area		m ²	0.641	0.87		1.273	
	Stages	Quantity		34	44		64	
	Empty tubeplate hole	Quantity		0				
	Tube type			ø8 Hi-XSS	ø7 Hi-XSL			
	Fin	Type		WF fin				
		Treatment		Anti-corrosion treatment (PE)				
Fan	Type			Propeller fan				
	Discharge direction			Horizontal				
	Quantity			1		2		
	Air flow rate	Cooling	Nom.	m ³ /min	52	76	77	83
			Super low	m ³ /min	-			
		Heating	Nom.	m ³ /min	48	83		62
Super low			m ³ /min	-				
		cfm	-					

2 Specifications

2-2 Technical Specifications					RZQSG71LV1	RZQSG100LV1	RZQSG125LV1	RZQSG140LV1	
Fan motor	Quantity				1			2	
	Model				KFD-325-70-8A	Brushless DC motor			
	Output			W	70	200	94		
	Drive				Direct drive				
	Speed	Steps				8			
		Cooling	Nom.	rpm	800	850	855	700	
Super low			rpm	-					
Heating		Nom.	rpm	745	920		540		
	Super low	rpm	-						
Sound power level	Cooling	Nom.	dBA	65	69	70	69		
Sound pressure level	Cooling	Nom.	dBA	49	53	54	53		
		Silent operation	dBA	47	49				
	Heating	Nom.	dBA	51	57	58	54		
Compressor	Quantity				1				
	Model				2YC63DXD	2YC63SXD		2YC90AXD	
	Type				Hermetically sealed swing compressor				
	Output			W	1,700	2,080	2,620	3,620	
	Starting method				Inverter driven				
Operation range	Cooling	Ambient	Min.	°CDB	-5.0				
			Max.	°CDB	46				
	Heating	Ambient	Min.	°CWB	-15				
			Max.	°CWB	15.5				
Refrigerant	Type				R-410A				
	Charge			kg	2.75	2.9	4.0		
	Control				Expansion valve (electronic type)				
	Circuits	Quantity			1				
Refrigerant oil	Type				FVC50K				
	Charged volume			l	0.75	0.9	1.35		
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	30	50			
		System	Equivalent	m	40	70			
			Chargeless	m	30				
	Additional refrigerant charge			kg/m	see installation manual 4PW72942-1	see installation manual 4P302555-1			
Level difference	IU - OU	Max.	m	15	30.0				
	IU - IU	Max.	m	0.5					
Heat insulation				Both liquid and gas pipes					
Defrost method				Pressure equalising					
Defrost control				Sensor for outdoor heat exchanger temperature					
Safety devices	Item	01			High pressure switch				
		02			Fan motor thermal protection				
		03			Fuse				

2 Specifications

2

2-3 Electrical Specifications			RZQSG71LV1	RZQSG100LV1	RZQSG125LV1	RZQSG140LV1
Power supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
	Voltage range	Min.	%	10		
Max.		%	10			
Current	Zmax	List	-	Complies to EN61000-3-11		
	Recommended fuses	A	25	40		
Wiring connections	For power supply	Remark	see installation manual 4PW72942-1	see installation manual 4P302555-1		
	For connection with indoor	Remark	see installation manual 4PW72942-1	see installation manual 4P302555-1		
Power supply intake			Outdoor unit only			

Notes

- (1) PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC
- (2) 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 system with input current $> 16A$ and $\leq 75A$ per phase
- (3) Short-circuit power
- (4) See separate drawings for electrical data
- (5) See separate drawing for electrical data
- (6) 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 $\leq 75A$ per phase.

3 Electrical data

3 - 1 Electrical Data

RZQSG-LV1

Indoor	Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM			
							MSC	RLA	kW	FLA	kW	FLA		
FCQHG71FVEB	RZQSG71L2V1B	50Hz-220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5		
FCQG35FVEB	x2 RZQSG71L2V1B			18.9	—	20	—	16.2	0.07	0.3	0.044x2	0.3x2		
FCQG71FVEB	RZQSG71L2V1B			18.7	—	20	—	16.2	0.07	0.3	0.054	0.4		
FFQ35B9V1B	x2 RZQSG71L2V1B			19.2	—	20	—	16.2	0.07	0.3	0.055x2	0.4x2		
FBQ35C8VEB	x2 RZQSG71L2V1B			21.2	—	25	—	16.2	0.07	0.3	0.140x2	1.2x2		
FBQ71C8VEB	RZQSG71L2V1B			19.5	—	20	—	16.2	0.07	0.3	0.350	1.1		
FHQ35BWW1B	x2 RZQSG71L2V1B			19.7	—	20	—	16.2	0.07	0.3	0.062x2	0.6x2		
FHQG71CVEB	RZQSG71L2V1B			19.2	—	20	—	16.2	0.07	0.3	0.091	0.8		
FAQ71CVEB	RZQSG71L2V1B			18.7	—	20	—	16.2	0.07	0.3	0.048	0.4		
FVQ71CVEB	RZQSG71L2V1B			18.9	—	20	—	16.2	0.07	0.3	0.117	0.6		
FCQHG100FVEB	RZQSG100L7V1B			50Hz-220-240V	Min. 198V Max. 264V	29.1	—	32	—	24.4	0.2	0.6	0.221	1.3
FCQG35FVEB	x3 RZQSG100L7V1B					28.6	—	32	—	24.4	0.2	0.6	0.044x3	0.3x3
FCQG50FVEB	x2 RZQSG100L7V1B					28.3	—	32	—	24.4	0.2	0.6	0.039x2	0.3x2
FCQG100FVEB	RZQSG100L7V1B					28.4	—	32	—	24.4	0.2	0.6	0.117	0.7
FFQ35B9V1B	x3 RZQSG100L7V1B					29.0	—	32	—	24.4	0.2	0.6	0.055x3	0.4x3
FFQ50B9V1B	x2 RZQSG100L7V1B					29.3	—	32	—	24.4	0.2	0.6	0.055x2	0.7x2
FBQ35C8VEB	x3 RZQSG100L7V1B	32.0	—			40	—	24.4	0.2	0.6	0.140x3	1.2x3		
FBQ50C8VEB	x2 RZQSG100L7V1B	30.5	—			32	—	24.4	0.2	0.6	0.140x2	1.2x2		
FBQ100C8VEB	RZQSG100L7V1B	29.5	—			32	—	24.4	0.2	0.6	0.350	1.6		
FHQ35BWW1B	x3 RZQSG100L7V1B	29.8	—			32	—	24.4	0.2	0.6	0.062x3	0.6x3		
FHQ50BWW1B	x2 RZQSG100L7V1B	29.0	—			32	—	24.4	0.2	0.6	0.062x2	0.6x2		
FHQG100CVEB	RZQSG100L7V1B	29.0	—			32	—	24.4	0.2	0.6	0.150	1.2		
FAQ100CVEB	RZQSG100L7V1B	28.0	—			32	—	24.4	0.2	0.6	0.064	0.4		
FVQ100CVEB	RZQSG100L7V1B	29.0	—			32	—	24.4	0.2	0.6	0.238	1.2		

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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)

3 Electrical data

3 - 1 Electrical Data

RZQSG-LV1

Indoor	Outdoor	Hz-Power supply	Voltage range				Comp		OFM		IFM			
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQHG125FVEB	RZQSG125L7V1B	50Hz-220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.4	0.2	0.6	0.244	1.4		
FCQG35FVEB	x4 RZQSG125L7V1B			29.0	—	32	—	24.4	0.2	0.6	0.044x4	0.3x4		
FCQG50FVEB	x3 RZQSG125L7V1B			28.6	—	32	—	24.4	0.2	0.6	0.039x3	0.3x3		
FCQG60FVEB	x2 RZQSG125L7V1B			28.3	—	32	—	24.4	0.2	0.6	0.044x2	0.3x2		
FCQG125FVEB	RZQSG125L7V1B			28.8	—	32	—	24.4	0.2	0.6	0.168	1.0		
FFQ35B9V1B	x4 RZQSG125L7V1B			29.5	—	32	—	24.4	0.2	0.6	0.055x4	0.4x4		
FFQ50B9V1B	x3 RZQSG125L7V1B			30.1	—	32	—	24.4	0.2	0.6	0.055x3	0.7x3		
FFQ80B9V1B	x2 RZQSG125L7V1B			29.3	—	32	—	24.4	0.2	0.6	0.055x2	0.7x2		
FBQ35C8VEB	x4 RZQSG125L7V1B			33.5	—	40	—	24.4	0.2	0.6	0.140x4	1.2x4		
FBQ50C8VEB	x3 RZQSG125L7V1B			32.0	—	40	—	24.4	0.2	0.6	0.140x3	1.2x3		
FBQ60C8VEB	x2 RZQSG125L7V1B			30.3	—	32	—	24.4	0.2	0.6	0.350x2	1.1x2		
FBQ125C8VEB	RZQSG125L7V1B			30.1	—	32	—	24.4	0.2	0.6	0.350	2.1		
FHQ35BWV1B	x4 RZQSG125L7V1B			30.5	—	32	—	24.4	0.2	0.6	0.062x4	0.6x4		
FHQ50BWV1B	x3 RZQSG125L7V1B			29.8	—	32	—	24.4	0.2	0.6	0.062x3	0.6x3		
FHQ60BWV1B	x2 RZQSG125L7V1B			29.0	—	32	—	24.4	0.2	0.6	0.062x2	0.6x2		
FHQG125CVEB	RZQSG125L7V1B			29.5	—	32	—	24.4	0.2	0.6	0.150	1.6		
FDQ125C7VEB	RZQSG125L7V1B			30.1	—	32	—	24.4	0.2	0.6	0.350	2.1		
FVQ125CVEB	RZQSG125L7V1B			29.0	—	32	—	24.4	0.2	0.6	0.238	1.2		
FCQHG140FVEB	RZQSG140L7V1B			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	RZQSG140L7V1B					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	x4 RZQSG140L7V1B	29.0	—			32	—	24.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4		
FCQG50FVEB	x3 RZQSG140L7V1B	28.6	—			32	—	24.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3		
FCQG71FVEB	x2 RZQSG140L7V1B	28.5	—			32	—	24.2	0.094+0.094	0.4+0.4	0.05x2	0.4x2		
FCQG140FVEB	RZQSG140L7V1B	28.8	—			32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0		
FFQ35B9V1B	x4 RZQSG140L7V1B	29.5	—			32	—	24.2	0.094+0.094	0.4+0.4	0.055x4	0.4x4		
FFQ50B9V1B	x3 RZQSG140L7V1B	30.1	—			32	—	24.2	0.094+0.094	0.4+0.4	0.055x3	0.7x3		
FBQ35C8VEB	x4 RZQSG140L7V1B	33.5	—			40	—	24.2	0.094+0.094	0.4+0.4	0.140x4	1.2x4		
FBQ50C8VEB	x3 RZQSG140L7V1B	32.0	—			40	—	24.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3		
FBQ71C8VEB	x2 RZQSG140L7V1B	30.3	—			32	—	24.2	0.094+0.094	0.4+0.4	0.350x2	1.1x2		
FBQ140C8VEB	RZQSG140L7V1B	30.1	—			32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1		
FHQ35BWV1B	x4 RZQSG140L7V1B	30.5	—			32	—	24.2	0.094+0.094	0.4+0.4	0.062x4	0.6x4		
FHQ50BWV1B	x3 RZQSG140L7V1B	29.8	—			32	—	24.2	0.094+0.094	0.4+0.4	0.062x3	0.6x3		
FHQG71CVEB	x2 RZQSG140L7V1B	29.5	—			32	—	24.2	0.094+0.094	0.4+0.4	0.091x2	0.8x2		
FHQG140CVEB	RZQSG140L7V1B	29.8	—			32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.8		
FAQ71CVEB	x2 RZQSG140L7V1B	28.5	—			32	—	24.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2		
FVQ140CVEB	RZQSG140L7V1B	29.3	—			32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4		

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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)

4 Options

4 - 1 Options

RZQSG-LV1

Available options for RZQSG models:

Name of option	Kit name			
	RZQSG71L2V1B	RZQSG100L7V1B	RZQSG125L7V1B	RZQSG140L7V1B
Bottom plate heater				
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T): See note 2		
	Triple	-	KHRQ127H (KHRQ58H): See note 2	
	Double twin	-	-	KHRQ22M20TA (KHRQ58T): See note 2
Demand adaptor kit		KRP58M51		

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NOTES

- 1 For combination of RZQSG71L7V1B and EKBPH140L7 it is required to use the demand adaptor kit KRP58M51 in order to connect the bottom plate heater.
- 2 For RZQ(S)G71-140L7Y1B in combination with FCQG35-71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

5 Combination table

5 - 1 Combination Table

RZQSG-LV1

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

(*) Max capacity depend on outdoor unit

SKY-AIR	Hi cassette			Thin cassette						2x2 cassette			Duct (medium ESP)						Ceiling suspended				4way ceiling		Wall mounted	High ESP duct	Floor standing										
	FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQGS9FVEB	FCQGS9PVEB	FCQGS7FVEB	FCQGS100FVEB	FCQGS125FVEB	FCQGS140FVEB	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B	FCQGS9B1B	FCQGS9V1B						
RZQSG71L2V1B	P																																				
RZQSG100L7V1B		P																																			
RZQSG125L7V1B			P																																		
RZQSG140L7V1B				P																																	

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NOTES

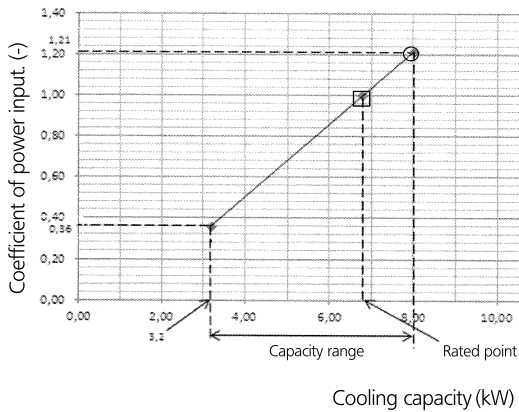
- Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
- When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.
- See the option list for the selection of the refnet kits that are necessary to install the combinations:
Twin: KHRQ22M20TA or KHRQ58T
Triple: KHRQ127H or KHRQ58H
Double twin: KHRQ22M20TA or KHRQ58T

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQSG71LV1

Cooling



Cooling

Indoor		Outdoor temperature (°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	7.29	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	8.54	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	8.51	4.90	1.36

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with \circ show the max. at standard condition.
On the figure the mark with \square show the 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.
= $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$.
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

(Pair)

	FCQHG71F	FCQG71F	FBQ71C8	FHQG71C	FAQ71C	FVQ71C
AFR	21.2	21.5	18	20.5	18	18
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)

(Twin)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
AFR	12.5x2	10x2	16x2	13x2
(BF)	(0.4x2)	(0.25x2)	(0.15x2)	(0.20x2)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG71F	FCQG71F	FBQ71C8	FHQG71C	FAQ71C	FVQ71C
Cooling	1.94	2.12	2.07	1.97	2.12	2.12

(Twin)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
Cooling	2.28	2.30	2.11	2.51

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
- PI: Power input (comp.+indoor and outdoor fan motor)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

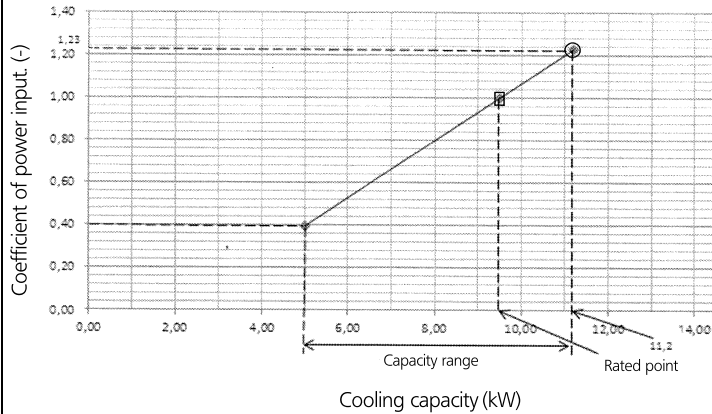
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQSG100LV1

Cooling



Cooling

Indoor		Outdoor temperature (°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	11.2	7.61	1.01	10.8	7.44	1.11	10.5	7.29	1.22	10.1	7.09	1.32
18.0	25	11.8	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

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions. On the figure the mark with □ show the 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. = 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FAQ100C	FVQ100C
AFR	32.3	32	32	20	26	28
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.10)	(0.20)

(Triple)

	FCQG35Fx3	FFQ35B9Vx3	FBQ35C8x3	FHQ35B8x3
AFR	12.5x3	10x3	16x3	13x3
(BF)	(0.4x3)	(0.25x3)	(0.15x3)	(0.20x3)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FAQ100C	FVQ100C
Cooling	2.57	2.88	2.87	2.96	3.16	2.96

(Triple)

	FCQG35Fx3	FFQ35B9Vx3	FBQ35C8x3	FHQ35B8x3
Cooling	2.82	2.86	2.93	3.39

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
- PI: Power input (comp.+indoor and outdoor fan motor)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG50Fx2	FFQ50B9Vx2	FBQ50C8x2	FHQ50B8x2
AFR	12.6x2	12x2	16x2	13x2
(BF)	(0.22x2)	(0.16x2)	(0.16x2)	(0.10x2)

(Twin)

	FCQG50Fx2	FFQ50B9Vx2	FBQ50C8x2	FHQ50B8x2
Cooling	2.76	2.86	2.93	3.39

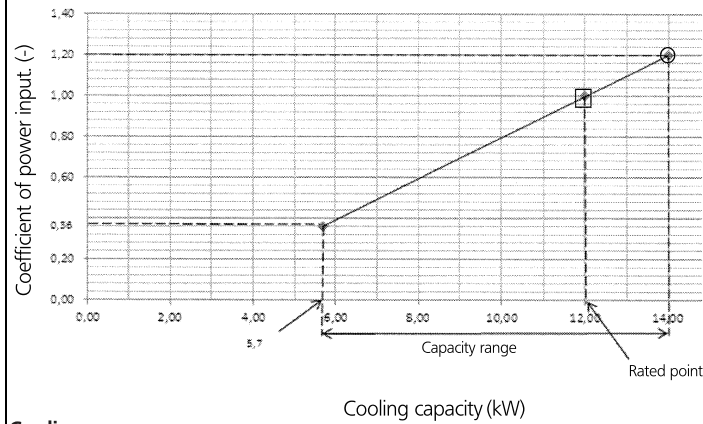
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQSG125LV1

Cooling



Cooling

Indoor		Outdoor temperature (°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	14.1	9.54	0.99	13.6	9.30	1.09	13.1	9.12	1.19	12.6	8.78	1.29
18.0	25	14.7	9.50	0.99	14.2	9.32	1.09	13.7	9.09	1.20	13.2	8.83	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	8.87	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	8.81	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	9.31	1.01	16.1	9.09	1.12	15.5	8.83	1.23	15.0	8.63	1.33

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the 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.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

(Pair)

	FCQHG125F	FCQG125F	FBQ125C8	FHQG125C	FDQ125C	FVQ125C
AFR	33.5	33	39	31	39	28
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.16)	(0.16)

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
AFR	12.6x3	12x3	16x3	13x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG125F	FCQG125F	FBQ125C8	FHQG125C	FDQ125C	FVQ125C
Cooling	3.71	3.74	3.74	4.15	3.74	4.27

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Cooling	3.69	4.08	3.95	4.39

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
- PI: Power input (comp.+indoor and outdoor fan motor)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG60Fx2	FFQ60B9Vx2	FBQ60C8x2	FHQ60B8x2
AFR	13.6x2	15x2	18x2	17x2
(BF)	(0.2x2)	(0.11x2)	(0.15x2)	(0.20x2)

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
AFR	12.5x4	10x4	16x4	13x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)

(Twin)

	FCQG60Fx2	FFQ60B9Vx2	FBQ60C8x2	FHQ60B8x2
Cooling	3.66	4.08	3.95	4.39

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Cooling	3.75	4.08	3.95	4.39

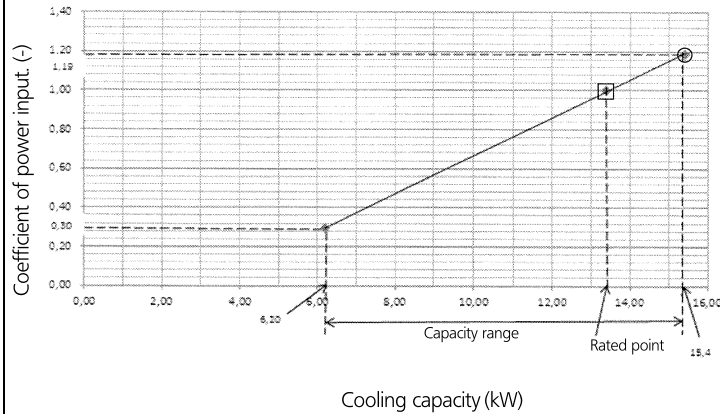
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQSG140LV1

Cooling



Cooling

Indoor		Outdoor temperature (°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	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.08	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	10.16	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

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the 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.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
 PI: Power input (comp.+indoor and outdoor fan motor)
 CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Pair)

	FCQHG140F	FCQG140F	FBQ140C8	FHQG140C	FVQ140C
AFR	33.5	33	39	34	30
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71Cx2	FAQ71C
AFR	21.2x2	21.5x2	18x2	20.5x2	18x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
AFR	12.6x3	12x3	16x3	13x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
AFR	12.5x4	10x4	16x4	13x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG140F	FCQG140F	FBQ140C8	FHQG140C	FVQ140C
Cooling	4.17	4.45	4.44	4.45	4.45

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71Cx2	FAQ71Cx2
Cooling	4.11	4.39	4.17	4.01	4.23

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Cooling	4.40	4.62	4.17	4.73

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Cooling	4.46	4.62	4.17	4.73

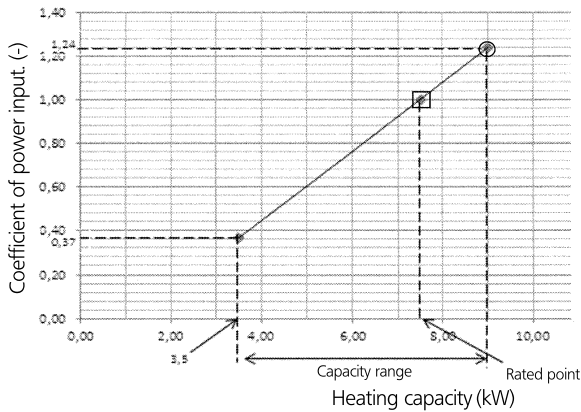
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQSG71LV1

Heating



Heating

Indoor °CDB	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI
16	5.88	1.86	6.42	1.96	6.83	2.04	7.08	2.10	9.02	1.14	9.72	1.20
18	5.87	1.84	6.41	2.04	6.81	2.12	7.08	2.18	9.01	1.19	9.70	1.25
20	5.87	2.02	6.41	2.12	6.81	2.20	7.07	2.27	9.00	1.24	9.69	1.30
21	5.87	2.05	6.41	2.16	6.81	2.24	7.06	2.31	9.00	1.26	9.69	1.33
22	5.88	2.09	6.40	2.20	6.80	2.28	7.06	2.35	8.99	1.28	9.68	1.35
24	5.88	2.17	6.39	2.28	6.79	2.37	7.05	2.44	8.98	1.33	9.66	1.40

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard condition.
On the figure the mark with □ show the 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.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

(Pair)

	FCQHG71F	FCQG71F	FBQ71C8	FHQG71C	FAQ71C	FVQ71C
AFR	21.2	21.5	18	20.5	18	18
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)

(Twin)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
AFR	12.5x2	10x2	16x2	13x2
(BF)	(0.4x2)	(0.25x2)	(0.15x2)	(0.20x2)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG71F	FCQG71F	FBQ71C8	FHQG71C	FAQ71C	FVQ71C
Heating	1.83	2.08	2.08	1.88	2.08	2.08

(Twin)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
Heating	2.37	2.32	2.16	2.78

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
- PI: Power input (comp.+indoor and outdoor fan motor)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

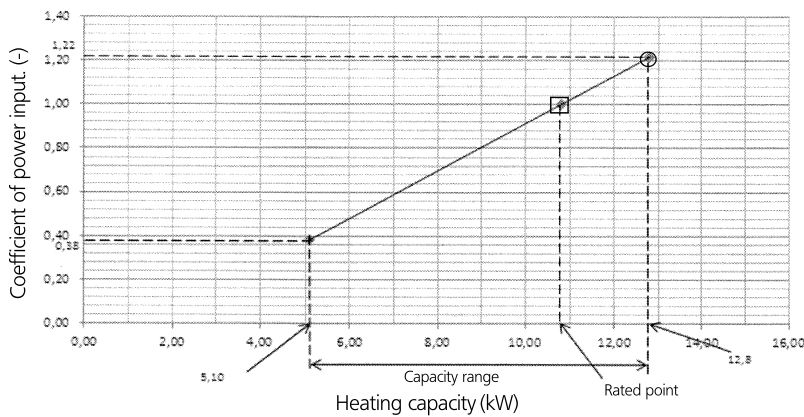
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQSG100LV1

Heating



Heating

Indoor °CDB	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI
16	7.66	1.26	8.64	1.33	9.15	1.38	9.21	1.42	12.8	1.12	13.8	1.18
18	7.65	1.32	8.64	1.38	9.15	1.44	9.20	1.48	12.8	1.17	13.8	1.23
20	7.64	1.37	8.64	1.44	9.15	1.50	9.19	1.54	12.8	1.22	13.8	1.28
21	7.64	1.40	8.63	1.46	9.14	1.52	9.19	1.57	12.8	1.24	13.8	1.30
22	7.63	1.42	8.63	1.49	9.14	1.55	9.18	1.60	12.8	1.26	13.8	1.33
24	7.62	1.48	8.62	1.55	9.13	1.61	9.17	1.65	12.8	1.31	13.8	1.38

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the 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.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FAQ100C	FVQ100C
AFR	32.3	32	32	20	26	28
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.10)	(0.20)

(Triple)

	FCQG35Fx3	FFQ35B9Vx3	FBQ35C8x3	FHQ35B8x3
AFR	12.5x3	10x3	16x3	13x3
(BF)	(0.4x3)	(0.25x3)	(0.15x3)	(0.20x3)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FAQ100C	FVQ100C
Heating	2.51	3.05	2.96	2.99	3.17	2.99

(Triple)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
Heating	2.66	2.79	2.86	3.32

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
 PI: Power input (comp.+indoor and outdoor fan motor)
 CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG50Fx2	FFQ50B9Vx2	FBQ50C8x2	FHQ50B8x2
AFR	12.6x2	12x2	16x2	13x2
(BF)	(0.22x2)	(0.16x2)	(0.16x2)	(0.10x2)

(Twin)

	FCQG50Fx2	FFQ50B9Vx2	FBQ50C8x2	FHQ50B8x2
Heating	2.61	2.79	2.86	3.32

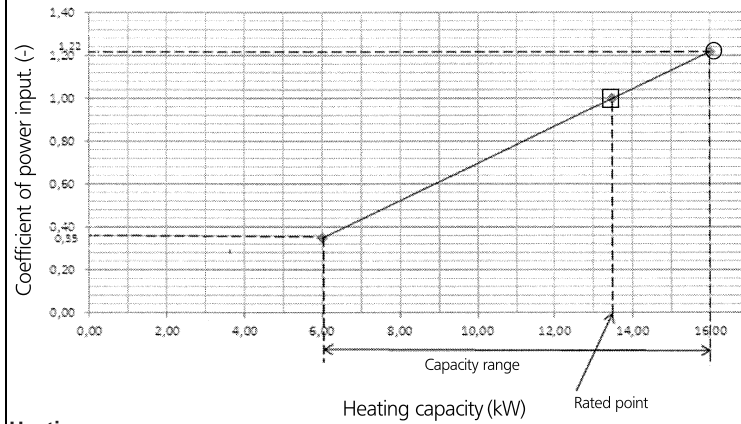
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQSG125LV1

Heating



Heating

Indoor °CDB	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI
16	10.4	1.49	11.4	1.56	12.1	1.61	12.5	1.65	16.0	1.13	17.3	1.18
18	10.4	1.54	11.3	1.61	12.0	1.66	12.5	1.70	16.0	1.17	17.2	1.23
20	10.4	1.59	11.3	1.66	12.0	1.71	12.5	1.76	16.0	1.22	17.2	1.28
21	10.4	1.62	11.3	1.69	12.0	1.74	12.5	1.78	16.0	1.24	17.2	1.30
22	10.3	1.64	11.3	1.71	12.0	1.77	12.5	1.81	16.0	1.26	17.2	1.33
24	10.3	1.70	11.3	1.76	12.0	1.82	12.5	1.87	16.0	1.31	17.2	1.38

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the 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.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
- PI: Power input (comp.+indoor and outdoor fan motor)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Pair)

	FCQHG125F	FCQG125F	FBQ125C8	FHQG125C	FDQ125C	FVQ125C
AFR	33.5	33	39	31	39	28
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.16)	(0.16)

(Twin)

	FCQG60Fx2	FFQ60B9Vx2	FBQ60C8x2	FHQ60B8x2
AFR	13.6x2	15x2	18x2	17x2
(BF)	(0.2x2)	(0.11x2)	(0.15x2)	(0.20x2)

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
AFR	12.6x3	12x3	16x3	13x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
AFR	12.5x4	10x4	16x4	13x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG125F	FCQG125F	FBQ125C8	FHQG125C	FDQ125C	FVQ125C
Heating	3.60	3.96	3.85	3.73	3.85	3.96

(Twin)

	FCQG60Fx2	FFQ60B9Vx2	FBQ60C8x2	FHQ60B8x2
Heating	3.88	4.15	4.06	4.48

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Heating	3.90	4.15	4.06	4.48

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Heating	3.96	4.15	4.06	4.48

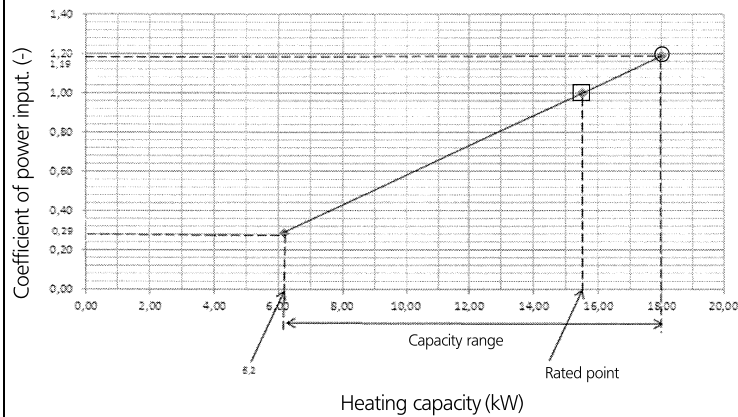
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQSG140LV1

Heating



Heating

Indoor °CDB	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI
16	11.6	1.46	12.7	1.53	13.5	1.59	14.0	1.63	18.0	1.10	19.4	1.16
18	11.6	1.52	12.7	1.59	13.5	1.65	14.0	1.70	18.0	1.14	19.4	1.21
20	11.6	1.55	12.7	1.64	13.5	1.71	14.0	1.77	18.0	1.19	19.4	1.25
21	11.6	1.59	12.7	1.68	13.5	1.75	14.0	1.80	18.0	1.22	19.4	1.28
22	11.6	1.62	12.7	1.71	13.5	1.78	14.0	1.83	18.0	1.24	19.4	1.30
24	11.6	1.68	12.6	1.77	13.4	1.84	14.0	1.90	18.0	1.29	19.4	1.35

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the 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.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- 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 given in table below:

(Pair)

	FCQHG140F	FCQG140F	FBQ140C8	FHQG140C	FVQ140C
AFR	33.5	33	41	34	30
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
AFR	12.6x3	12x3	16x3	13x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)

- Rated power input of each model is given in tables below:

(Pair)

	FCQHG140F	FCQG140F	FBQ140C8	FHQG140C	FVQ140C
Heating	4.29	4.54	4.54	4.54	4.54

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Heating	4.48	5.16	4.94	5.73

SYMBOLS

- AFR: Air flow rate (m³/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 heat capacity (kW)
 PI: Power input (comp.+indoor and outdoor fan motor)
 CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71Cx2	FAQ71C
AFR	21.2x2	21.5x2	18x2	20.5x2	18x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
AFR	12.5x4	10x4	16x4	13x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)

(Twin)

	FCQG71Fx2	FCQHG71Fx2	FBQ71C8x2	FHQG71C8x2	FAQ71Cx2
Heating	4.23	4.48	4.94	4.71	4.92

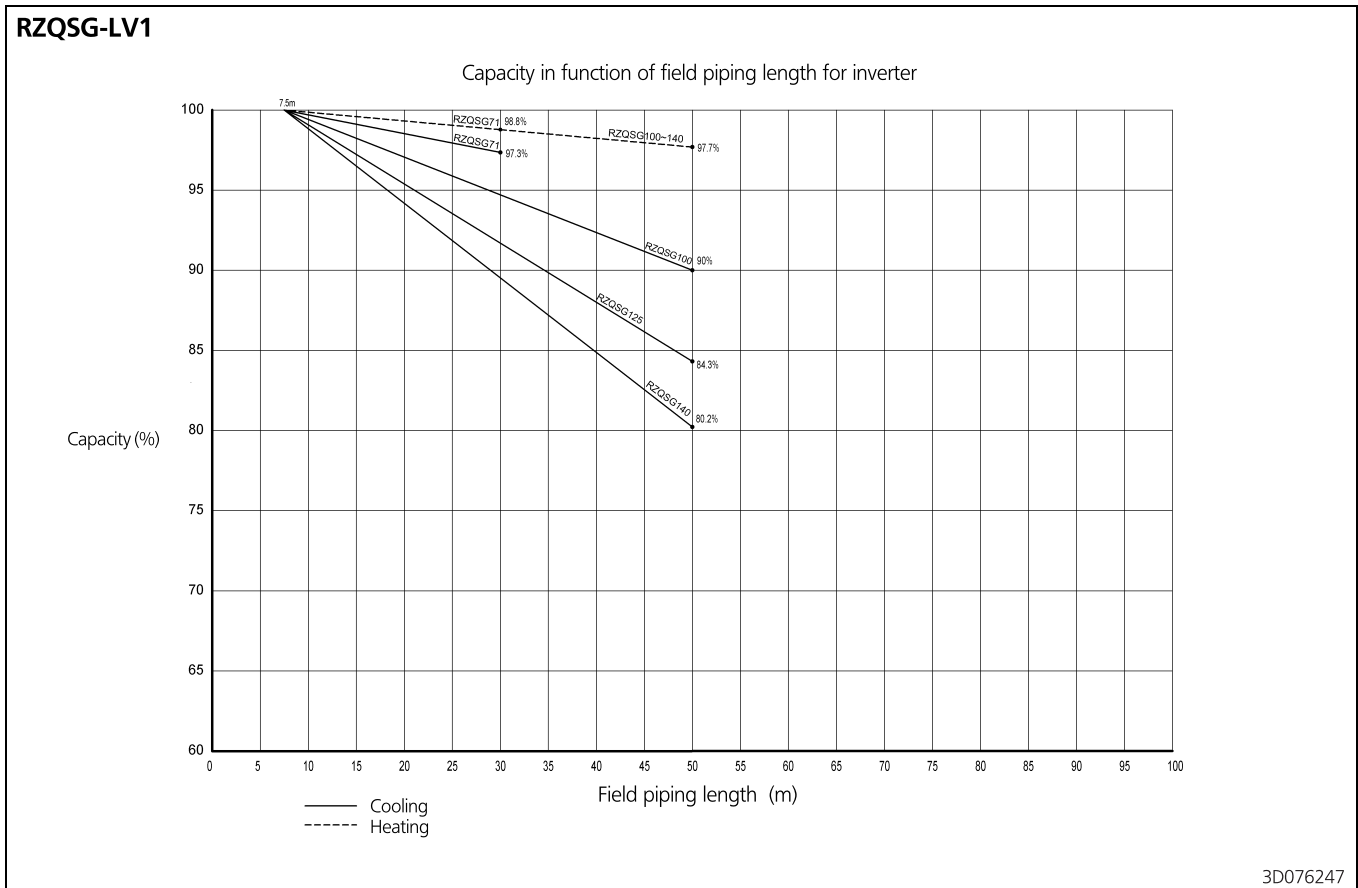
(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Heating	4.54	5.16	4.94	5.73

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6 Capacity tables

6 - 3 Capacity Correction Factor

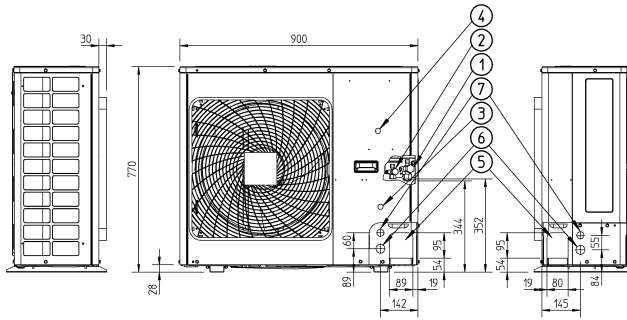
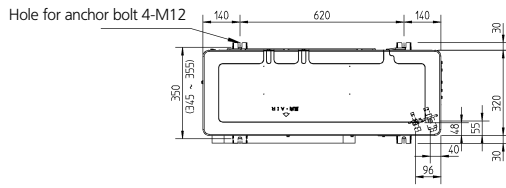


7 Dimensional drawings

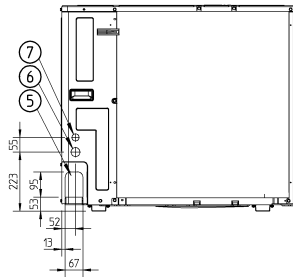
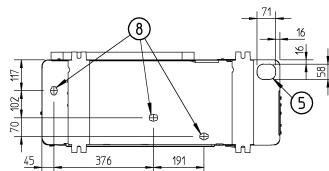
7 - 1 Dimensional Drawings

7

RZQSG71LV1

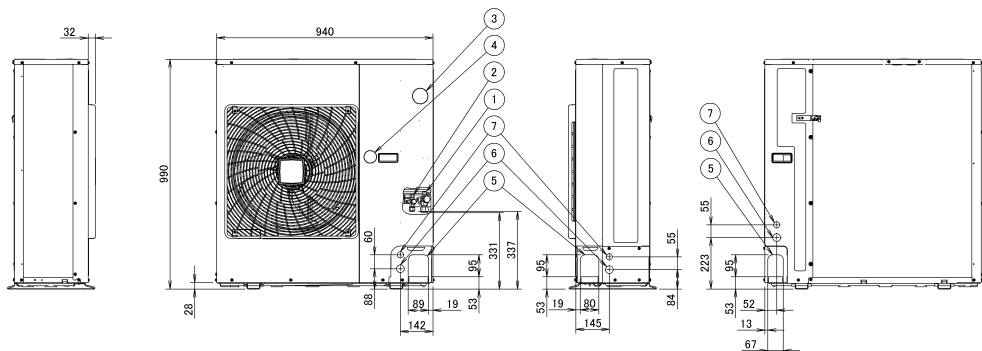
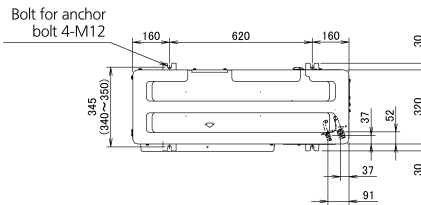


- 1 Gas pipe connection ϕ 15.9 flare
- 2 Liquid pipe connection - ϕ 9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock hole ϕ 34)
- 7 Control wiring intake (knock hole ϕ 27)
- 8 Drain outlet

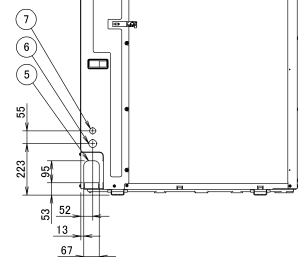
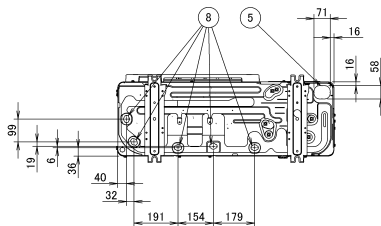


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RZQSG100-125LV1



- 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

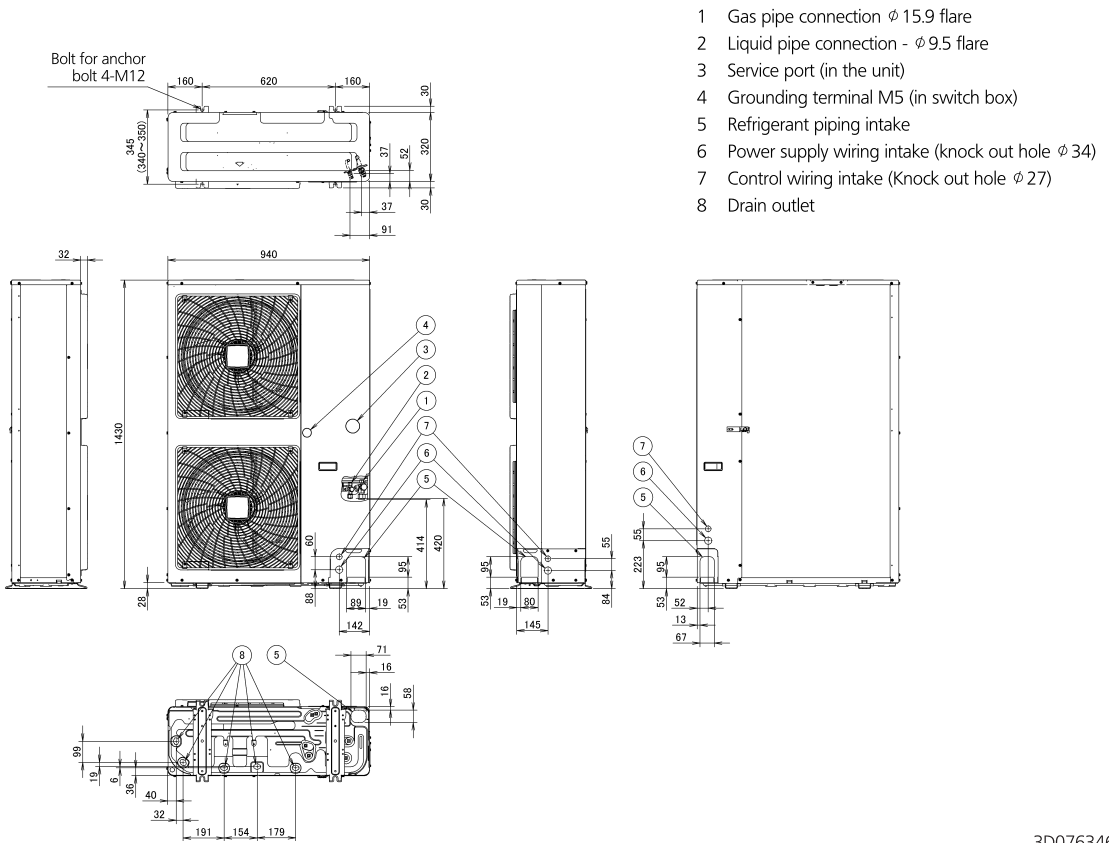


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7 Dimensional drawings

7 - 1 Dimensional Drawings

RZQSG140LV1



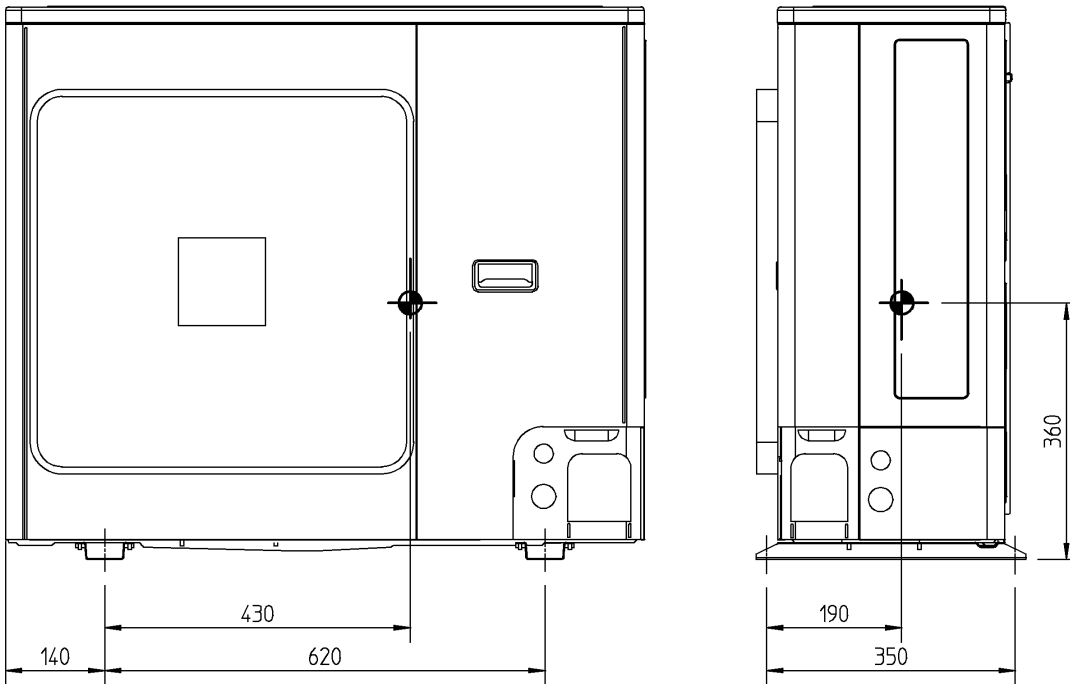
3D076346

8 Centre of gravity

8 - 1 Centre of Gravity

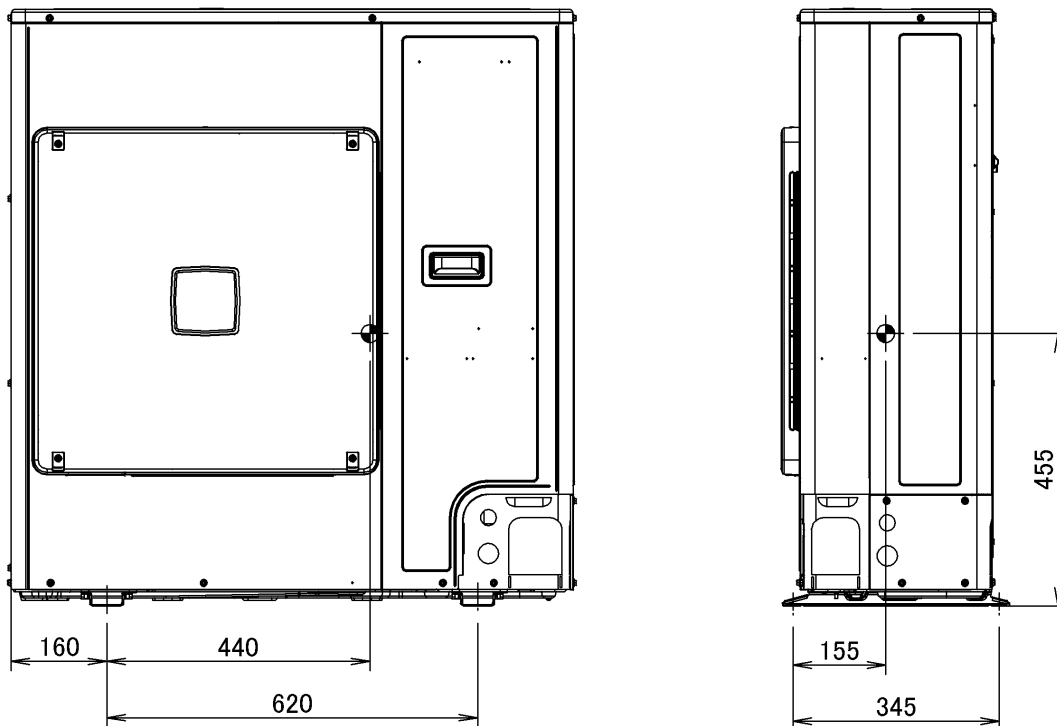
8

RZQSG71LV1



4TW30469-3

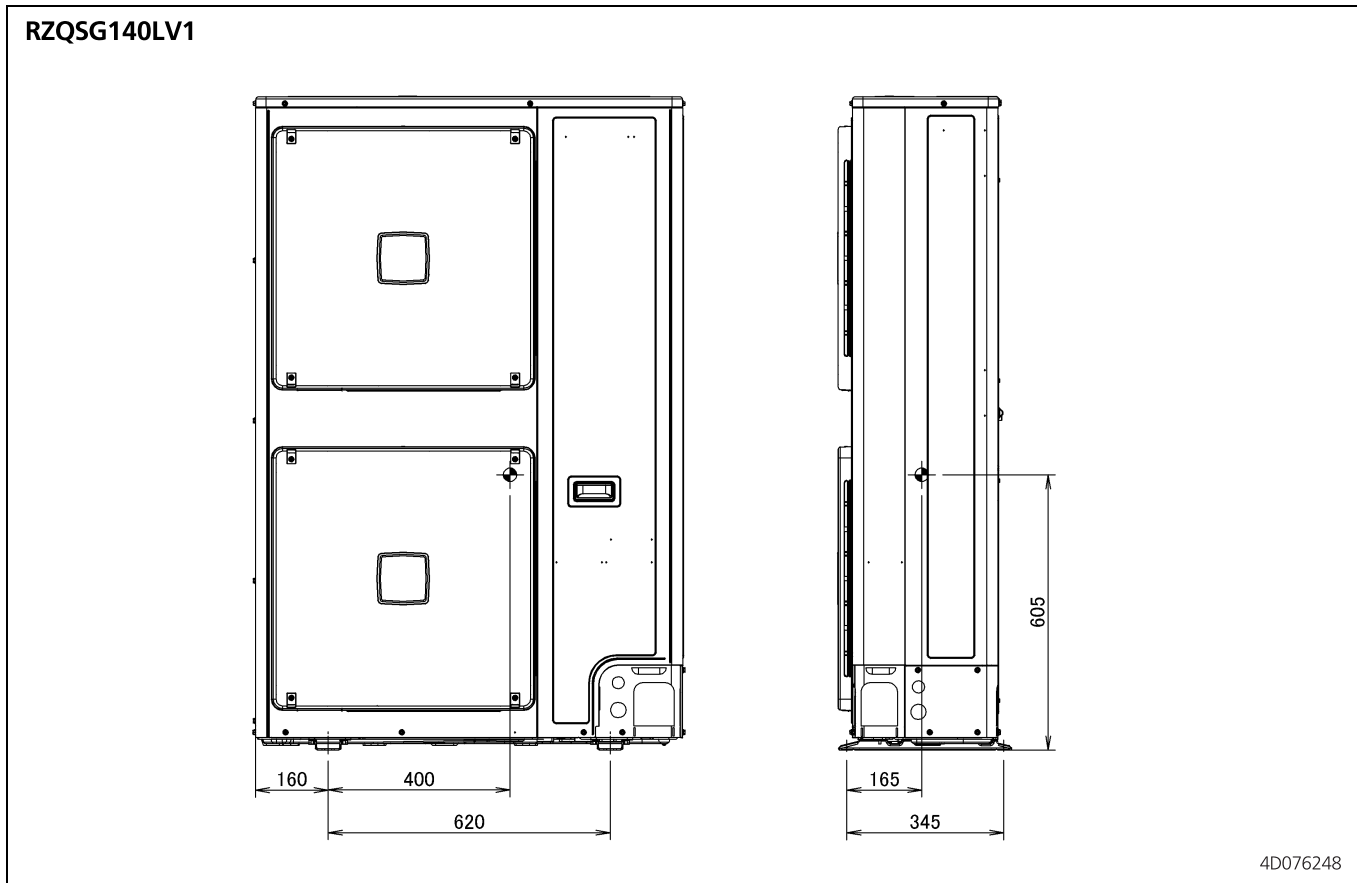
RZQSG100-125L



4D076239

8 Centre of gravity

8 - 1 Centre of Gravity

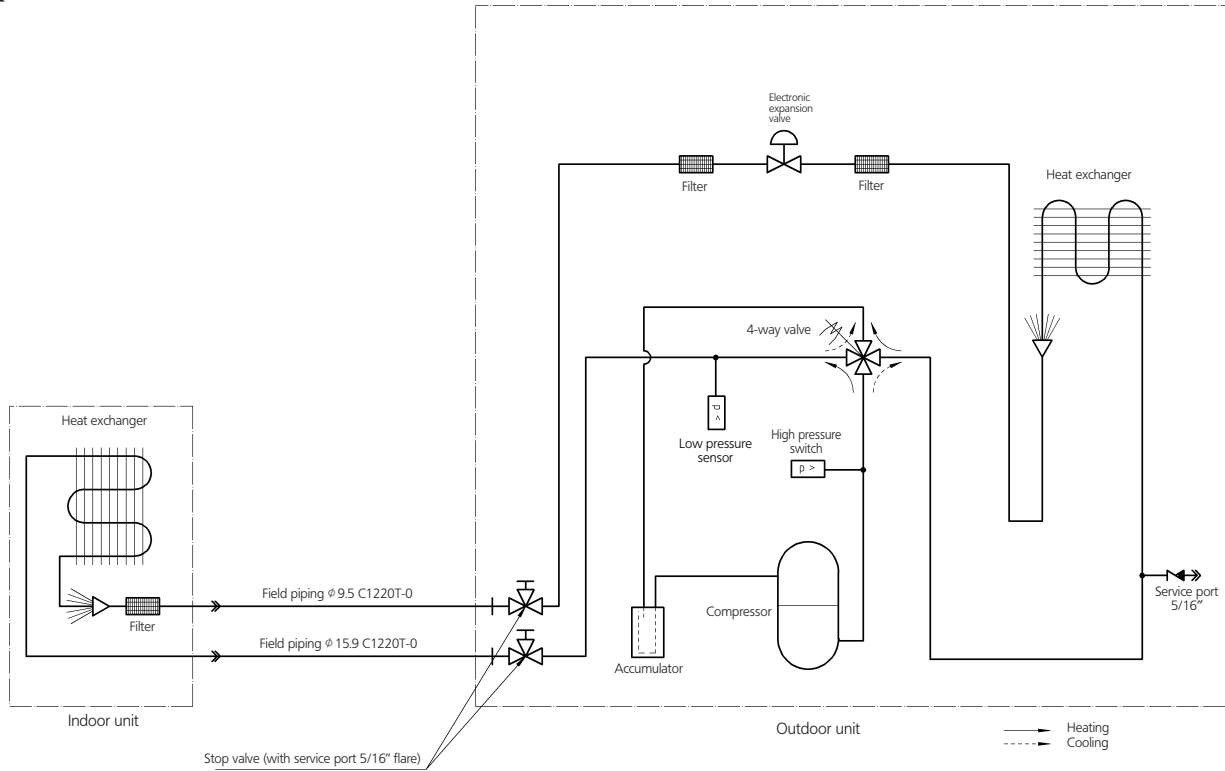


9 Piping diagrams

9 - 1 Piping Diagrams

9

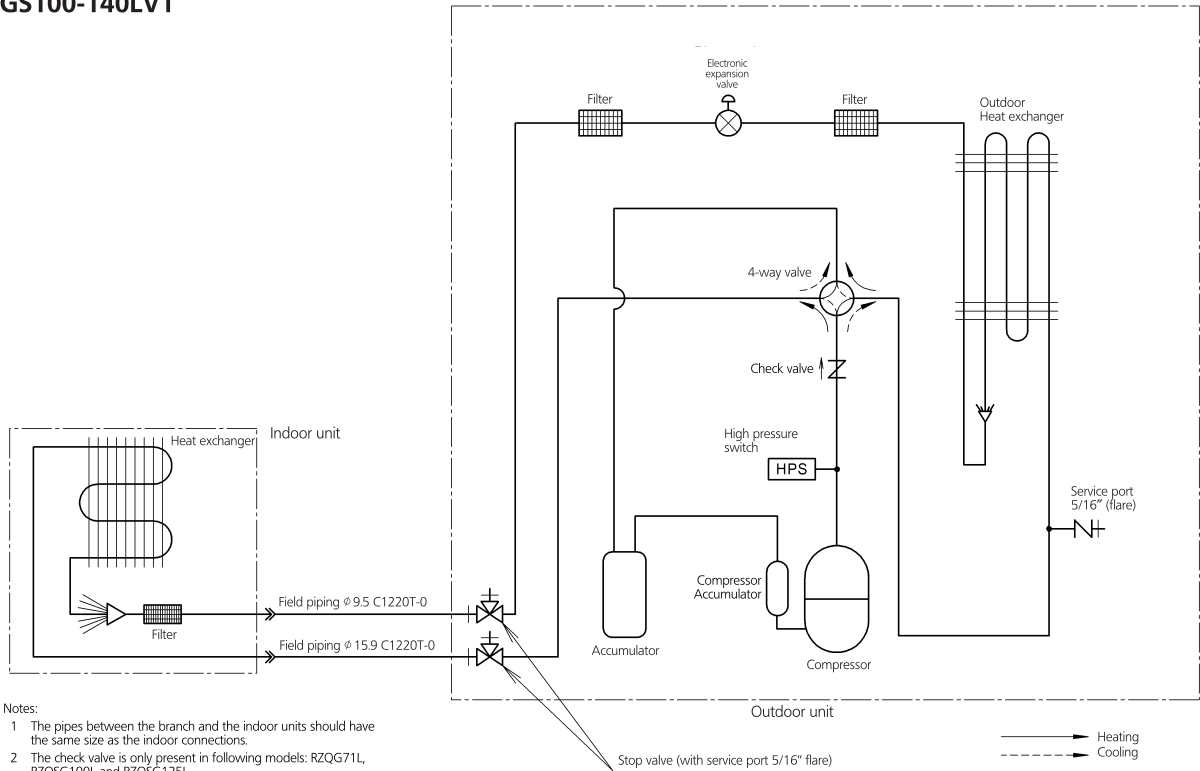
RZQSG71LV1



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

3TW29165-1

RZQGS100-140LV1

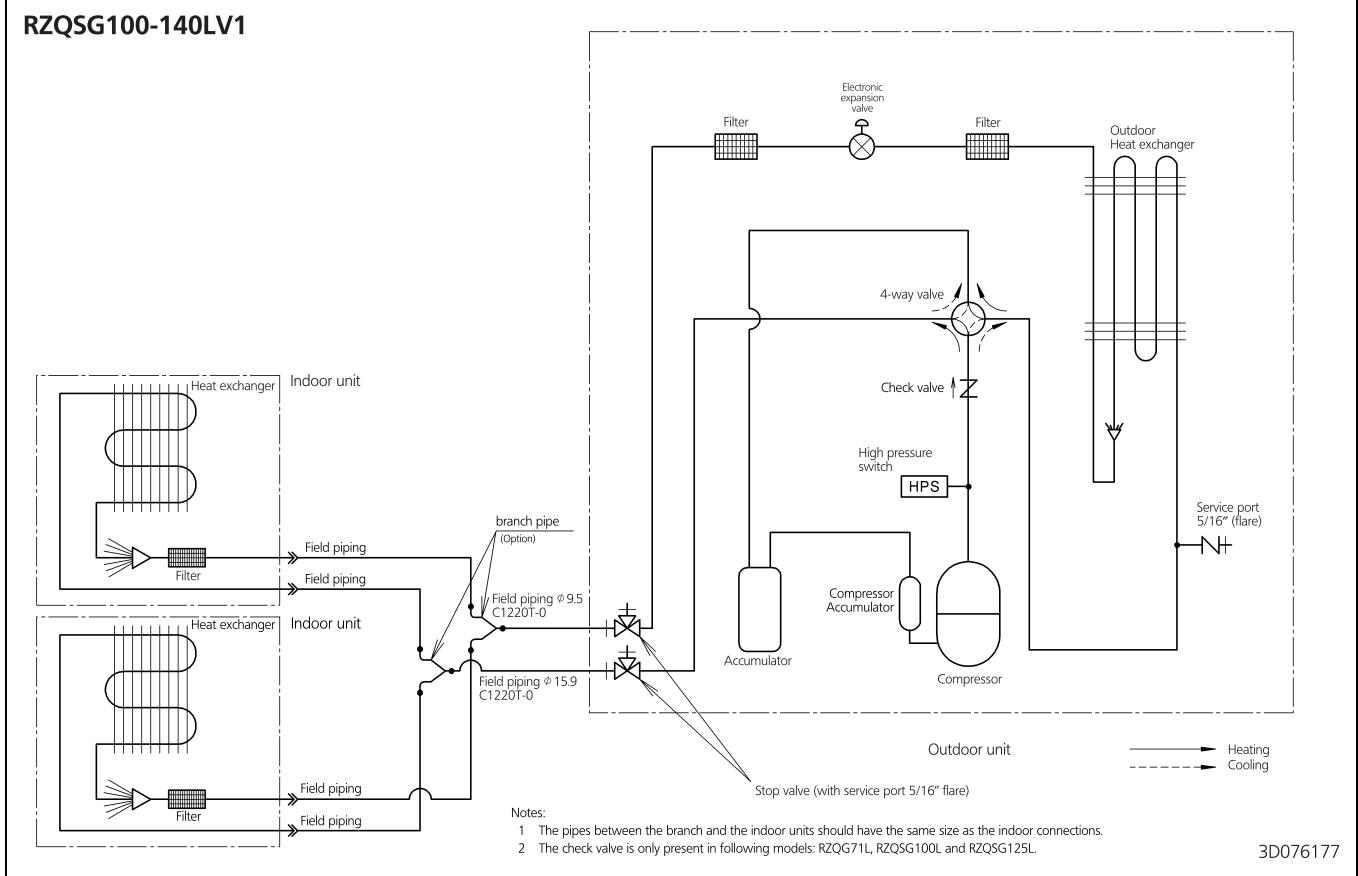
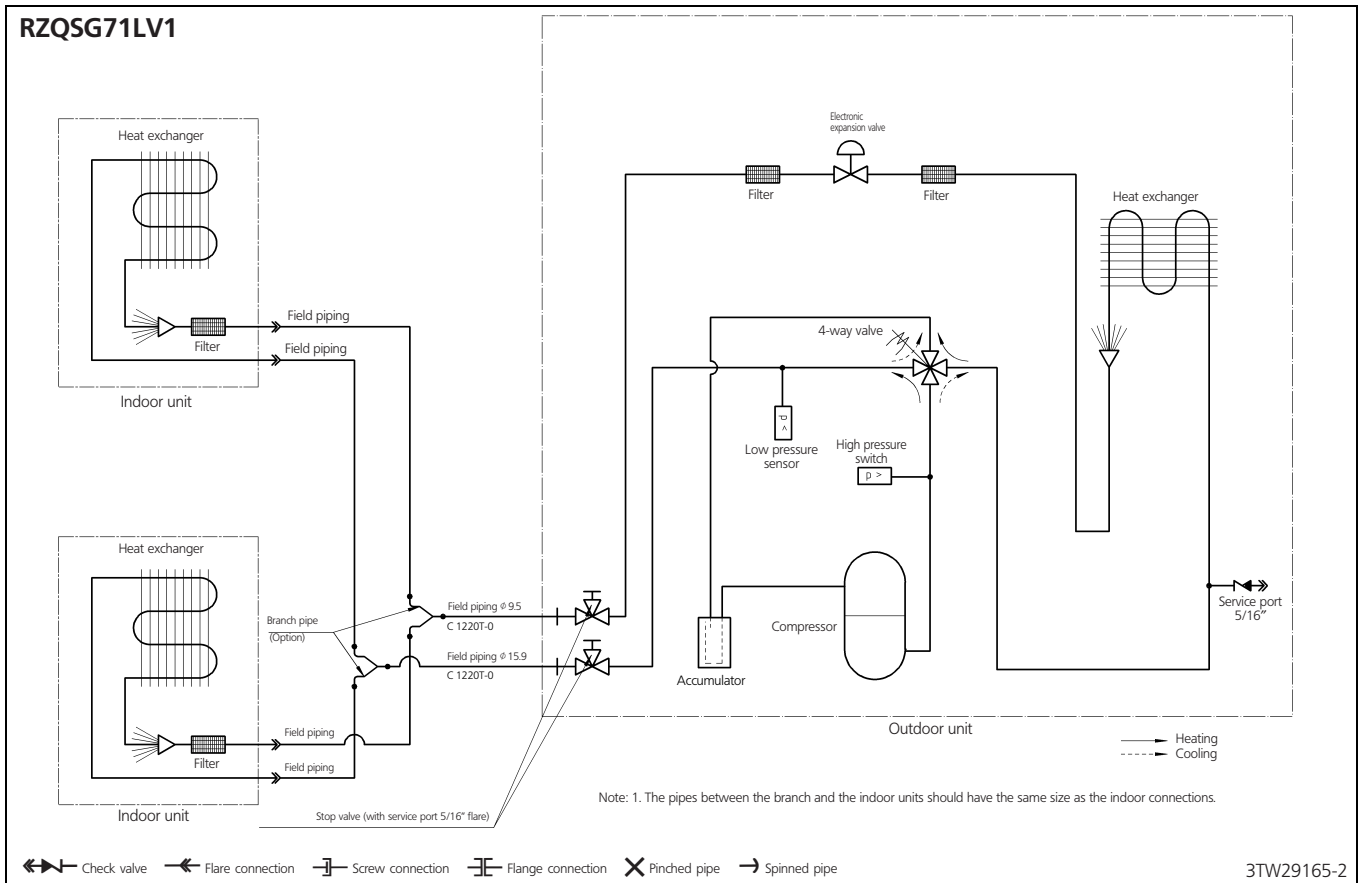


- Notes:
- 1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
 - 2 The check valve is only present in following models: RZQG71L, RZQSG100L and RZQSG125L.

3D076176

9 Piping diagrams

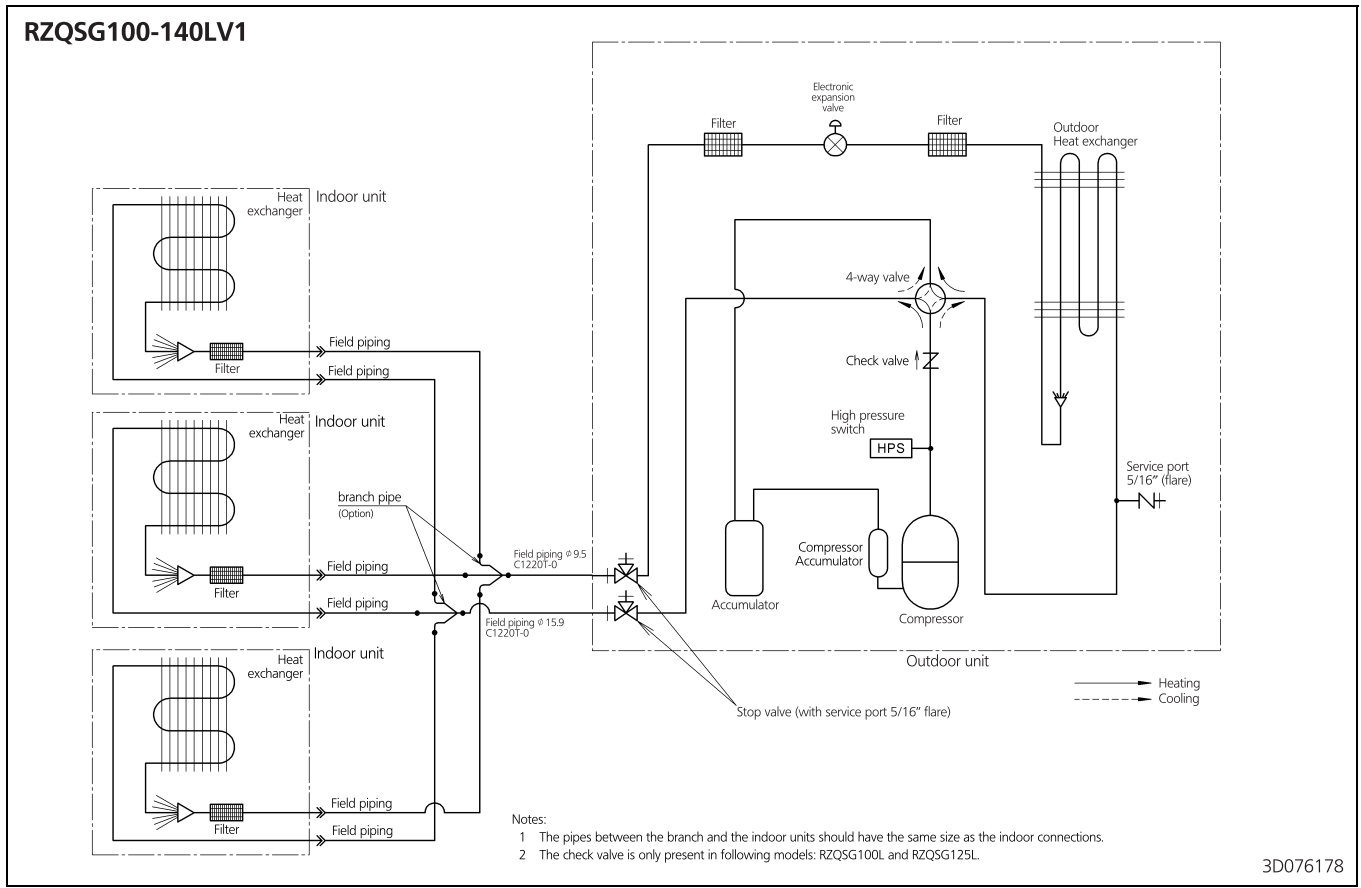
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

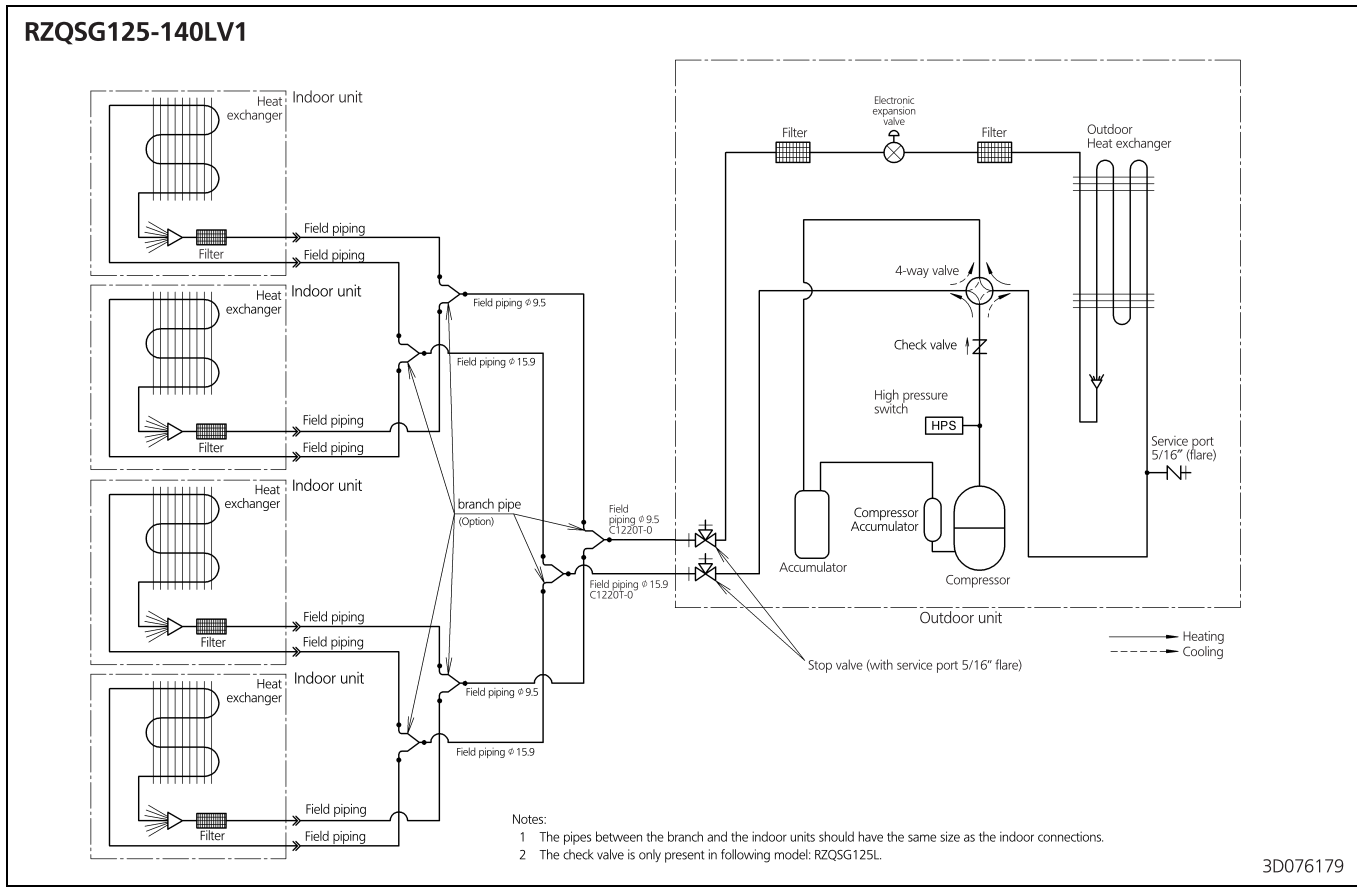
9 - 3 Piping Diagram Triple Application

9



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

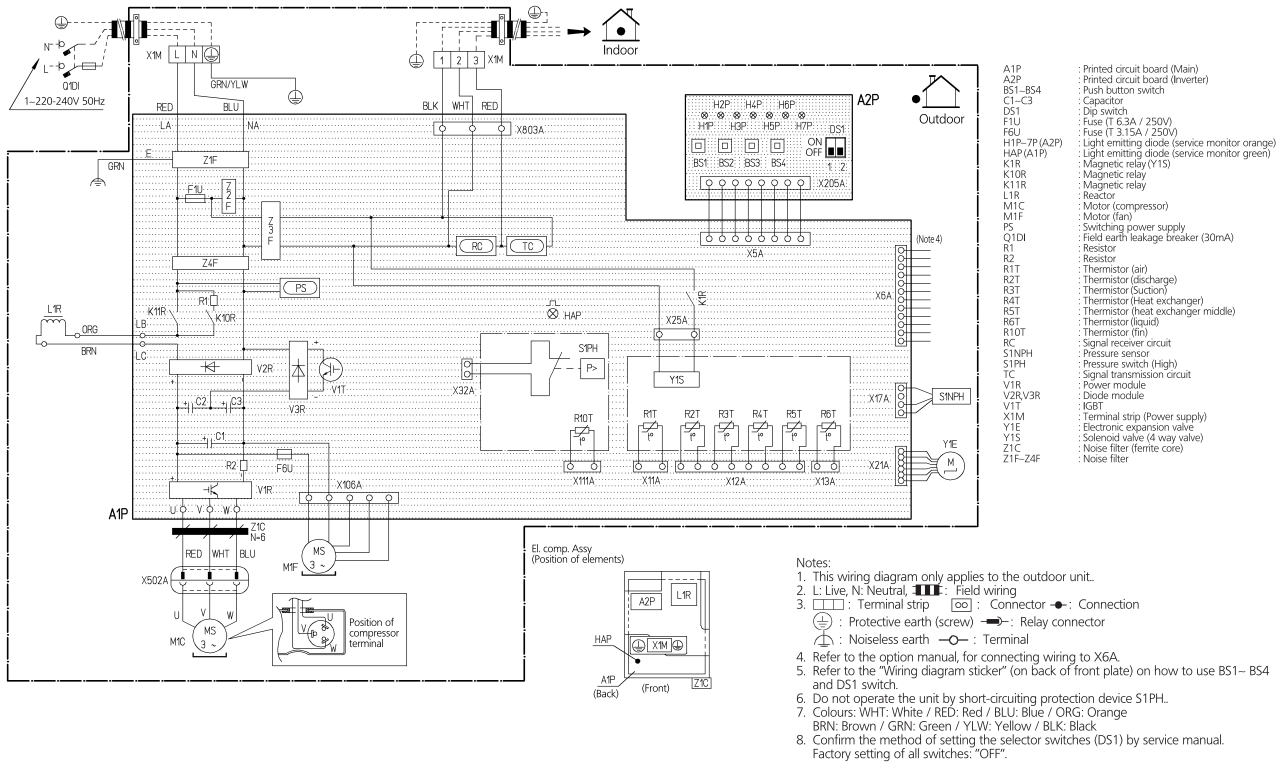


10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

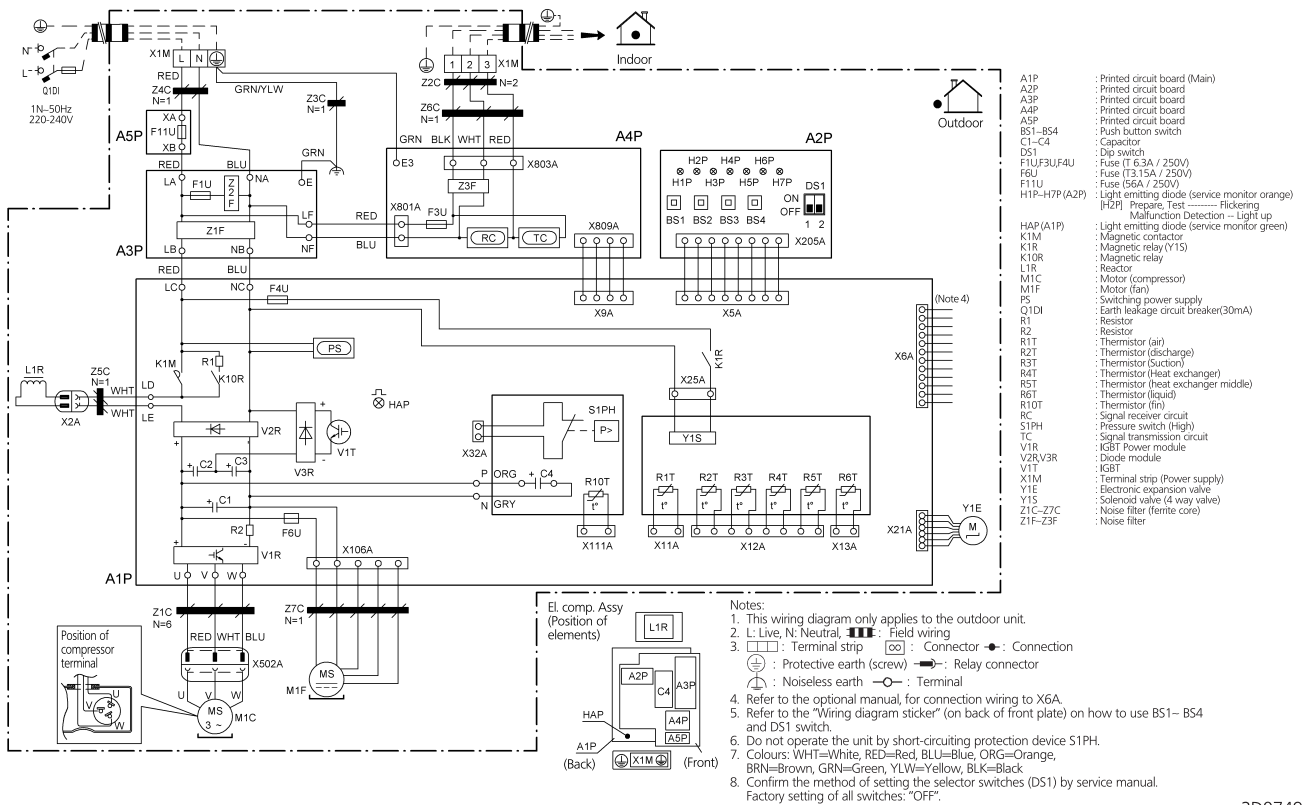
10

RZQSG71LV1



2TW30466-1B

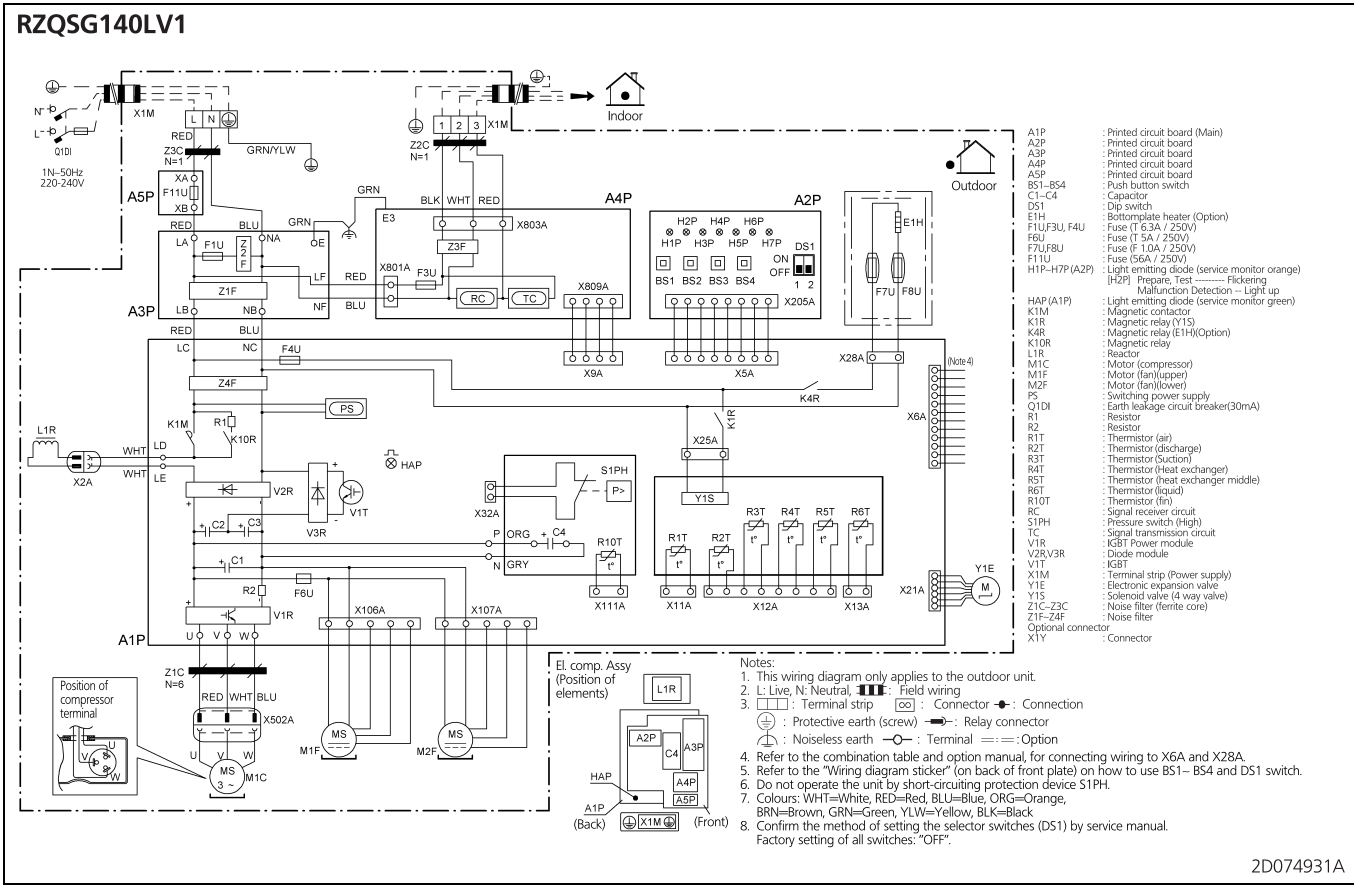
RZQSG100-125LV1



2D074930A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

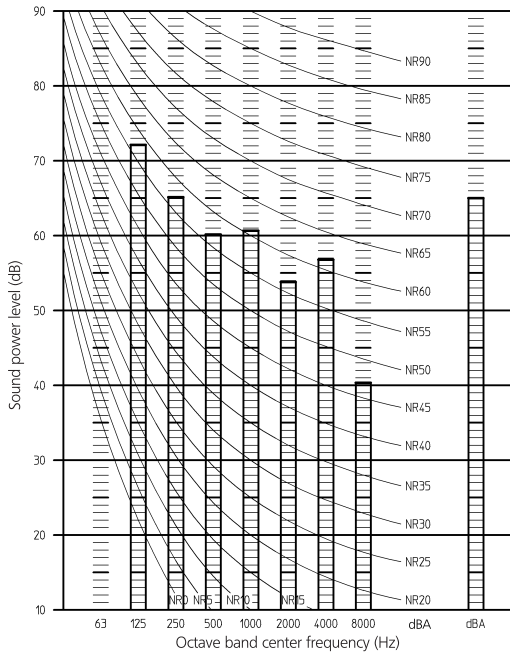


11 Sound data

11 - 1 Sound Power Spectrum

11

RZQSG71L

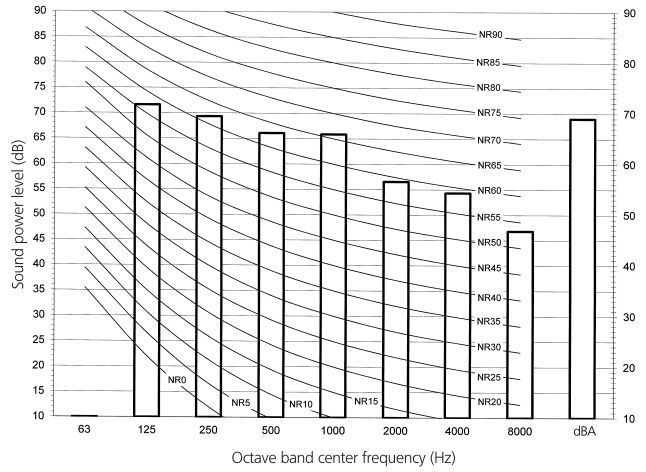


NOTES

- 1 dBA = A-weighted sound power level (A-scale according to IEC)
- 2 Reference acoustic intensity 0dB = 10E-6μW/m²
- 3 Measured according ISO3744

3TW30467-3

RZQSG100LV1

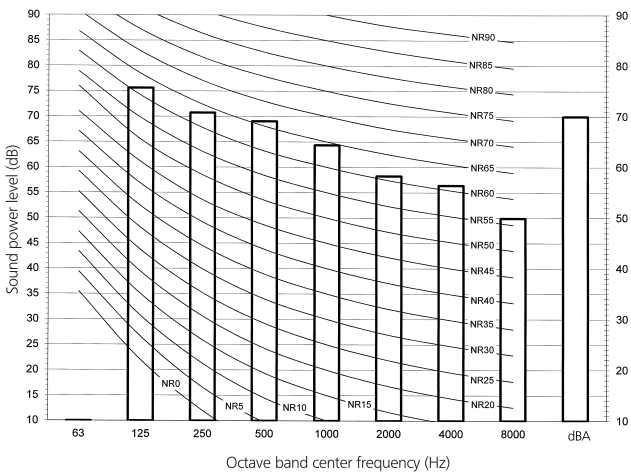


NOTES

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

3D076086

RZQSG125LV1

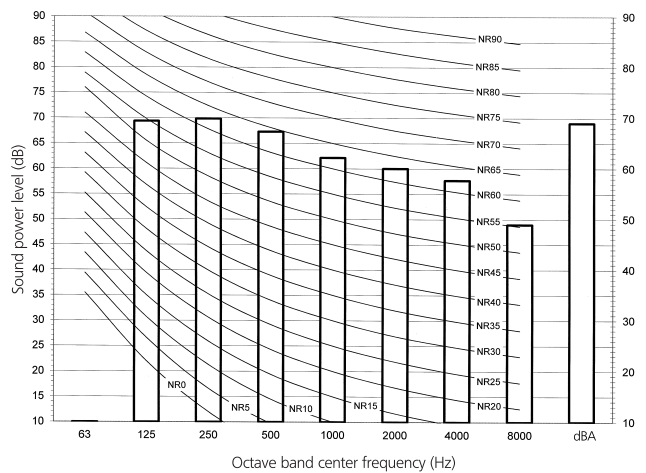


NOTES

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

3D076087

RZQSG140LV1



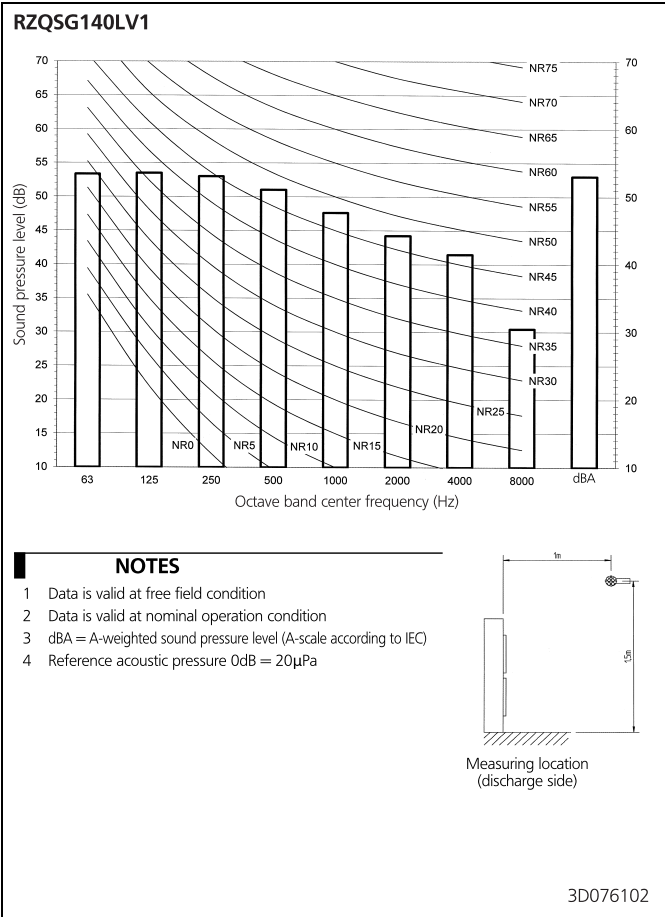
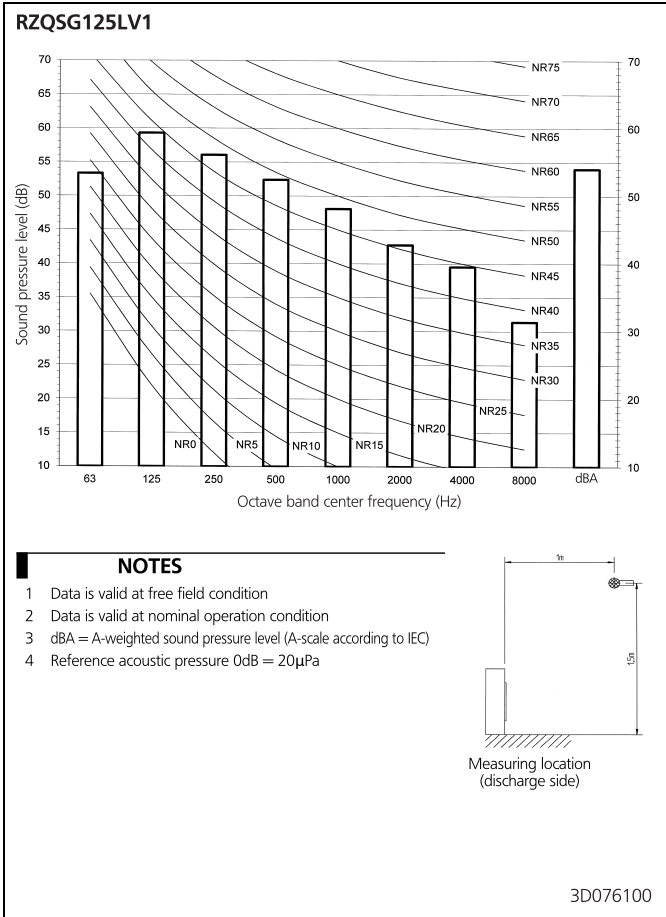
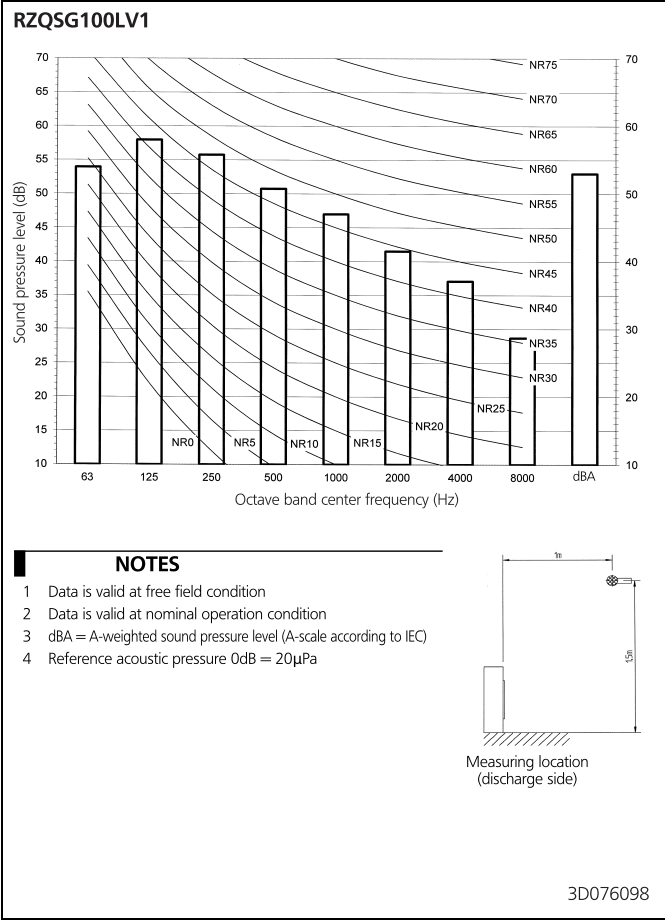
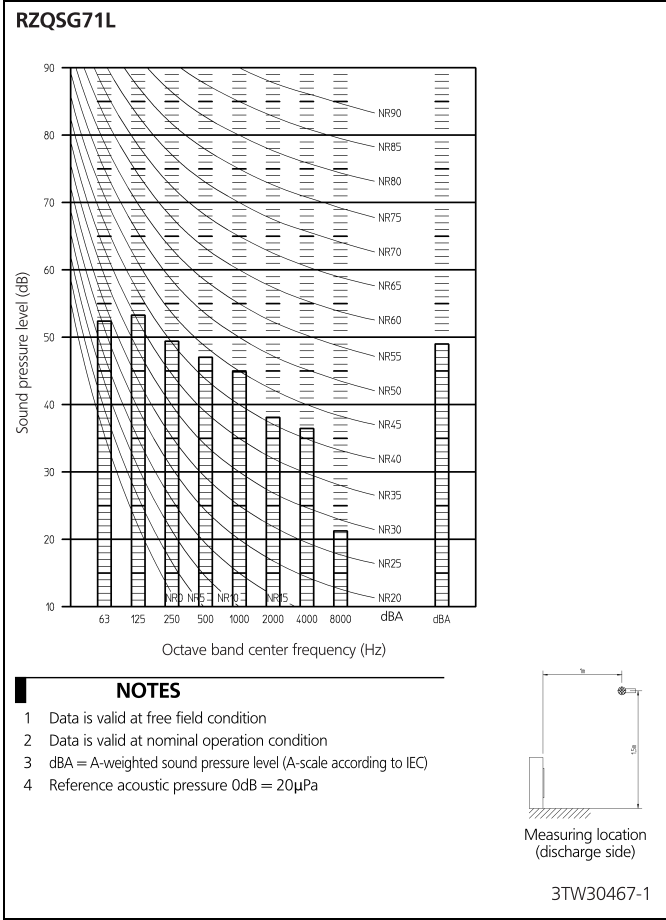
NOTES

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

3D076088

11 Sound data

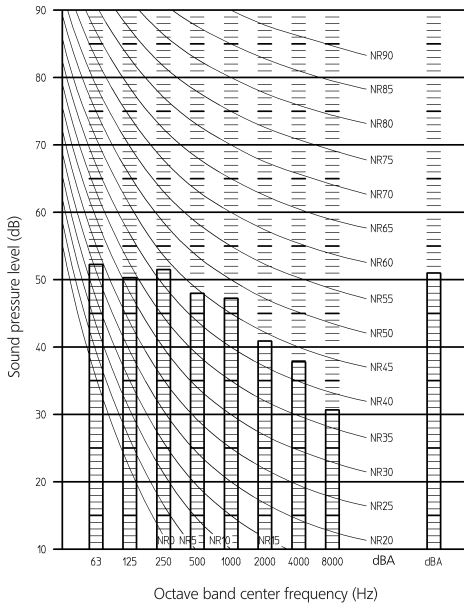
11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

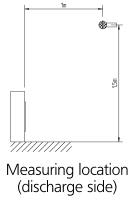
11 - 3 Sound Pressure Spectrum - Heating

RZQSG71L



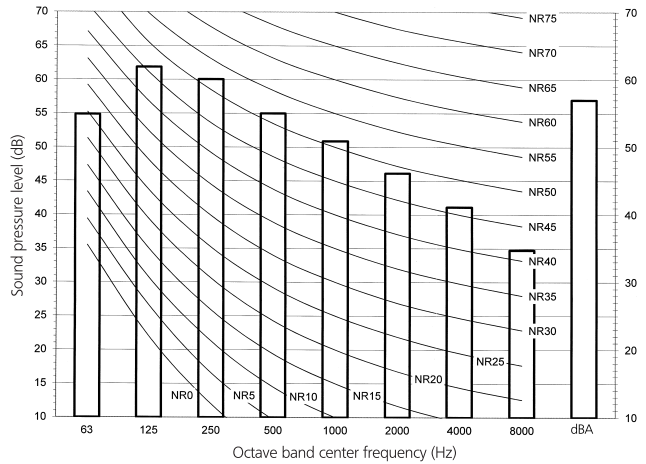
NOTES

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



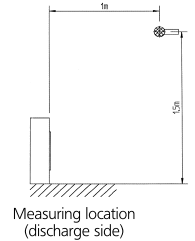
3TW30467-2

RZQSG100LV1



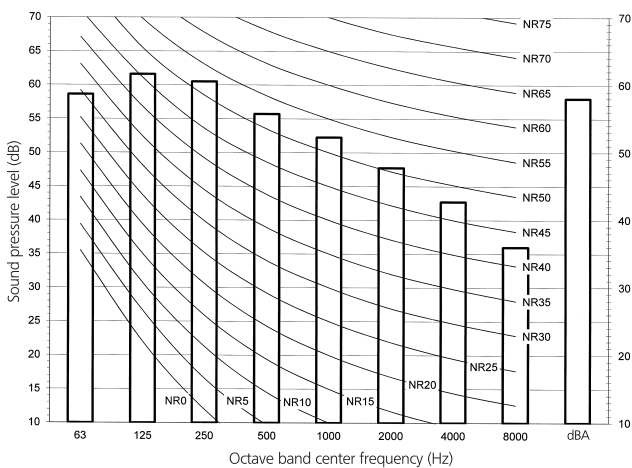
NOTES

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



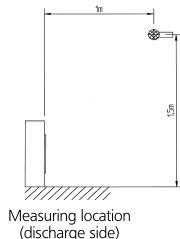
3D076107

RZQSG125LV1



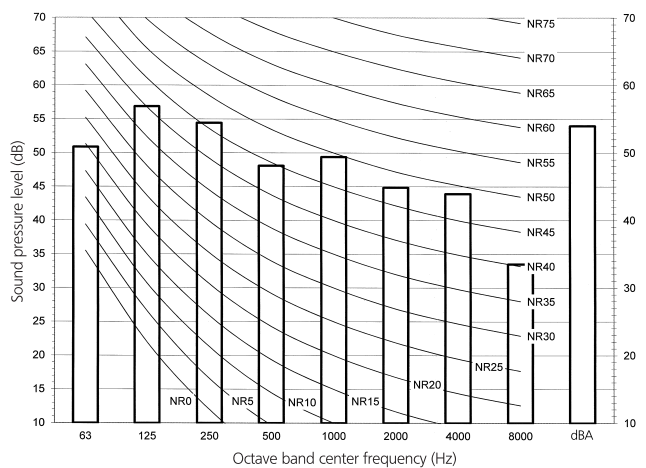
NOTES

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



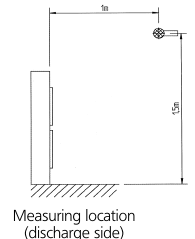
3D076108

RZQSG140LV1



NOTES

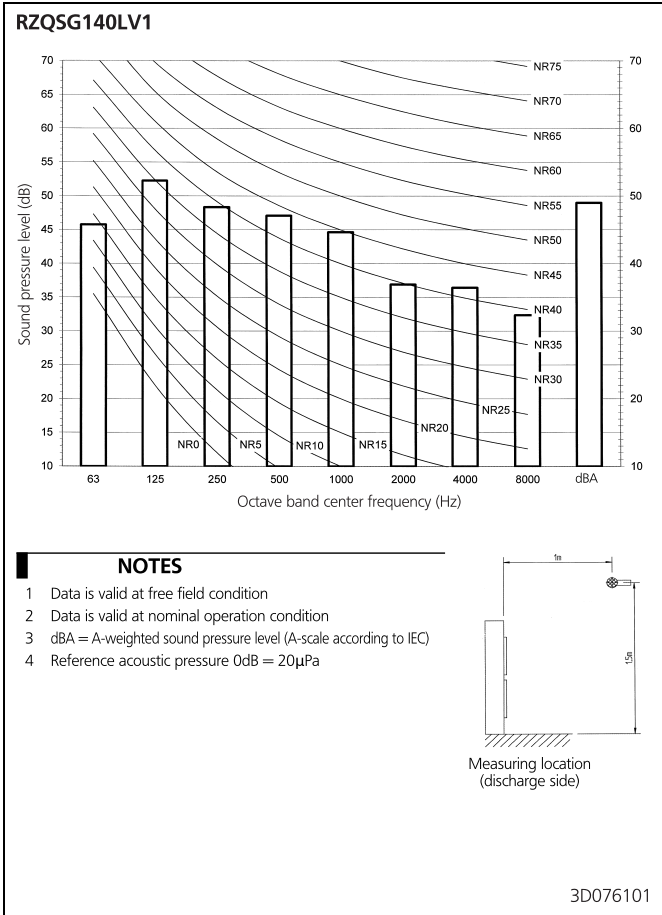
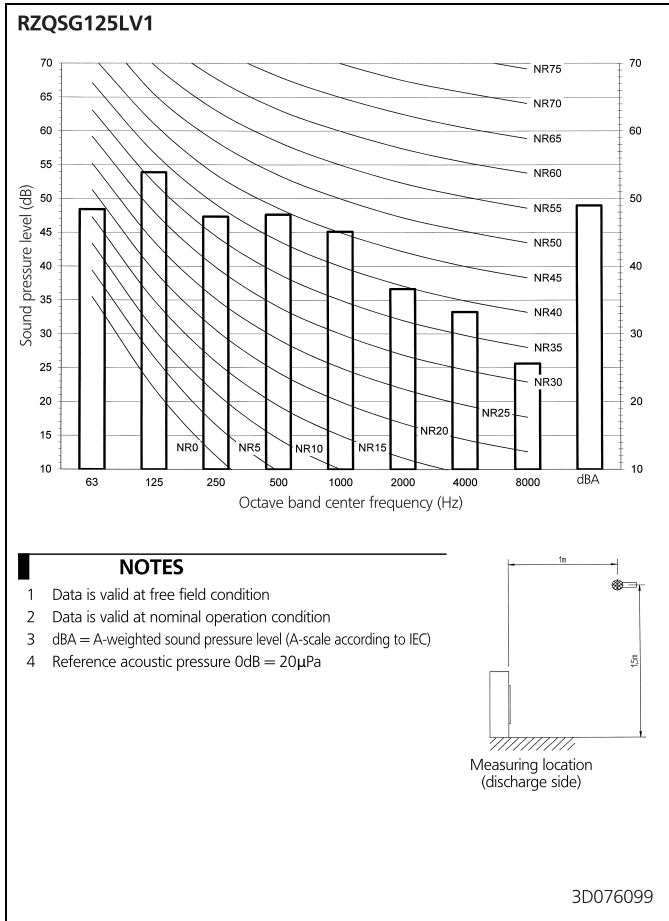
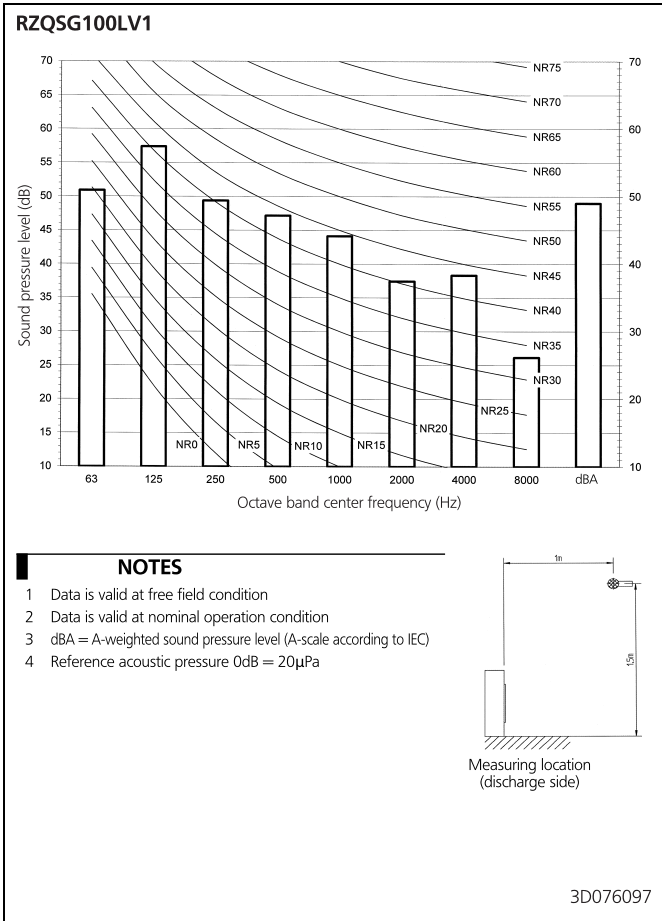
- 1 Data is valid at free field condition
- 2 Data is valid at nominal operation condition
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa



3D076109

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



12 Installation

12 - 1 Installation Method

12

RZQSG71LV1

A. Non stacked installation

	←	→	↖	↗		A	B1	B2	C	D1	D2	E	L1/L2	
	✓					≥100	≥50(100)							
	✓		✓	✓		≥100	≥100		≥100					
	✓		✓	✓	✓	≥150	≥150		≥150		≤500	≥1000		
	✓	✓								≥500		≥1000		
	✓	✓			✓					≤500	≥500	≥1000		
	✓	✓				L1<L2	≥50(100)				≥500			
	✓	✓				L2<L1	≥50(100)				≥500			
	✓	✓				L1<L2	L1≤H	≥150(250)	≤500		≥750		≥1000	0<L1≤1/2H 0<L1≤1/2H
	✓	✓				L2<L1	L2≤H	≥100(200)		≥500 (1000)	≥500	≥1000		0<L2≤1/2H 1/2H<L2≤H
	✓	✓				L1<L2	L1≤H	≥200	≥200(300)	≥1000				
	✓		✓	✓		≥200	≥200(300)		≥1000					
	✓		✓	✓	✓	≥200	≥200(300)		≥1000		≤500	≥1000		
	✓		✓	✓						≥1000				
	✓	✓				L1<L2	≥200(300)			≥1000		≥1000		
	✓	✓				L2<L1	≥150(250)			≥1000 (1000)			0<L1≤1/2H 1/2H<L2≤H	
	✓	✓				L1<L2	L1≤H	≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H 1/2H<L1≤H
	✓	✓				L2<L1	L2≤H	≥200(300)		≥1000 (1000)	≥1250	≥1000		0<L2≤1/2H 1/2H<L2≤H
	✓	✓				L1<L2	L1≤H	≥150(250)		≥1000 (1000)	≤500	≥1000		0<L1≤1/2H 1/2H<L2≤H
	✓	✓				L2<L1	L2≤H	≥200(300)		≥1000 (1000)	≥1250	≥1000		0<L2≤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.

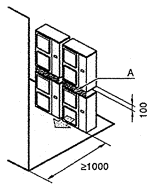
2 In these cases, only 2 units can be installed.

This situation is not allowed.

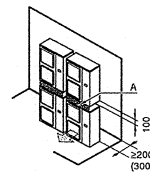
Figures between () indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



2. Obstacles exist in front of the air inlet

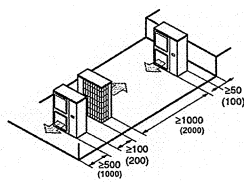


Do not stack more than one unit.

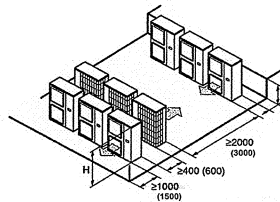
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe. Get the portion A sealed so that air from the outlet does not bypass.

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

3TW26739-4

12 Installation

12 - 1 Installation Method

RZQSG100-140LV1

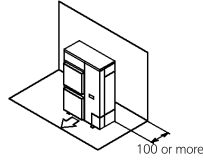
Installation service space

The measure of these values is "mm".

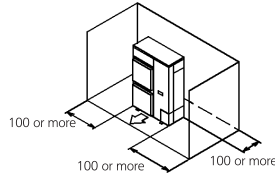
(A) When there are obstacles on suction sides.

• No obstacle above

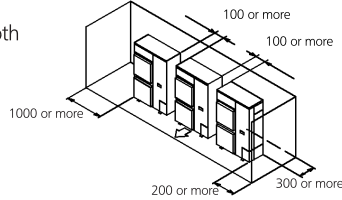
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

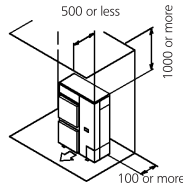


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

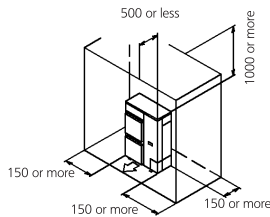


• Obstacle above, too.

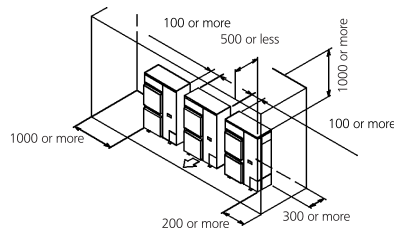
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



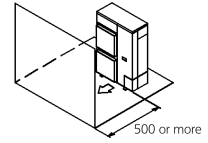
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



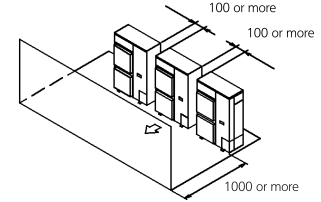
(B) When there are obstacles on discharge sides.

• No obstacle above

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

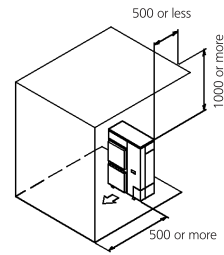


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

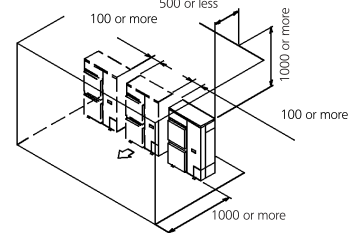


• Obstacle above, too

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



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



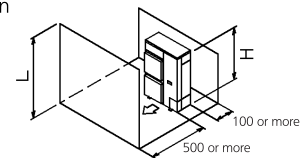
(C) When there are obstacles on both suction and discharge sides.

Pattern 1

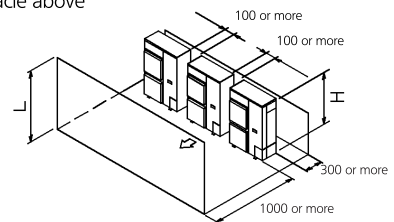
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• 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

RZQSG100-140LV1

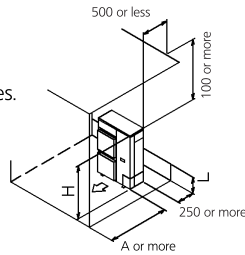
● **Obstacle above, too**

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.

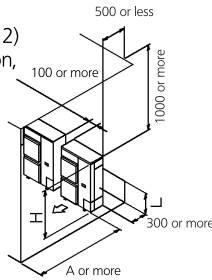
The relations between H, A and L are as follows.

	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

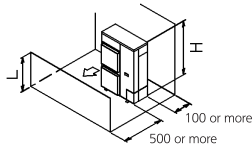
When the obstacle on the discharge side is lower than the unit ($L \leq H$) (There is no limit for the height of obstructions on the suction side.)



● **No obstacle above**

① Stand-alone installation

- No obstacle above

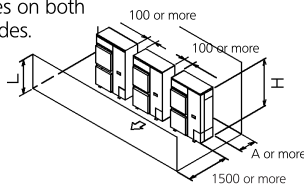


② Series installation (2 or more) (Note 1, 2)

- 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



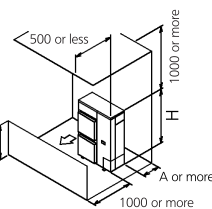
● **Obstacle above, too**

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	



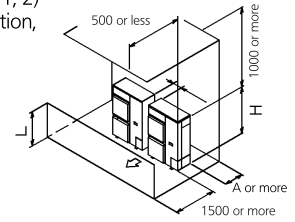
② Series installation (2 or more) (Note 1, 2)

- 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	

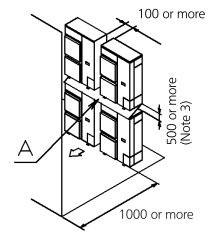
Limit of series installation is 2 units.



(D) Double-decker installation

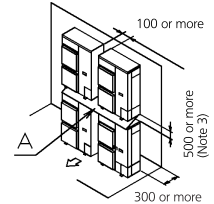
① Obstacle on the discharge side. (Note 1)

- 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.



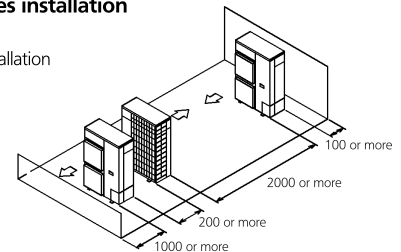
② Obstacle on the suction side. (Note 1)

- 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.)

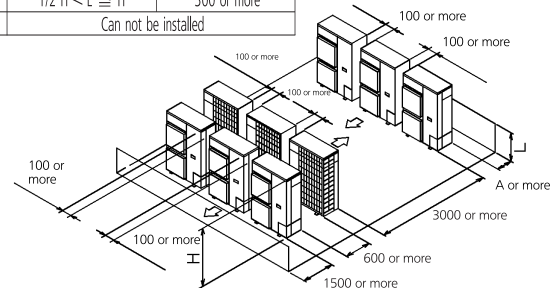
① One row of stand-alone installation



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

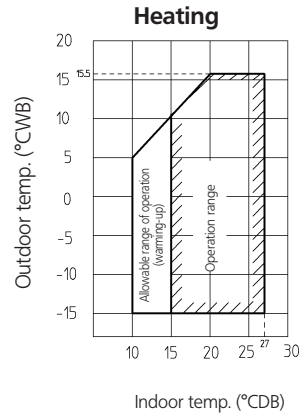
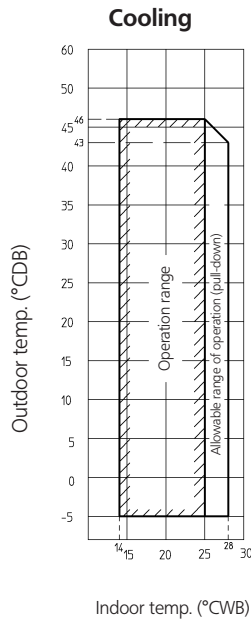
- 1 In case of the sideways piping, make a 100mm gap between the unit above.
- 2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- 3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space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

3D069554

13 Operation range

13 - 1 Operation Range

RZQSG-LV1



Notes:

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3TW29063-1D

In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

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