



Air Conditioning Technical Data



EEEN14-100

RZQSG-L(3/8)V1

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RZQSG-L(3/8)V1

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1 Features

- Seasonal classic series already comply with EU's 2014 Eco-Design requirements
- Top efficiency: - new compressor that offers substantial efficiency improvements - new control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - newly designed heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load) - via improved nominal performances
- Re-use of existing R-22 or R-407C technology
- Guarantees operation in heating mode down to -15°C
- Maximum piping length up to 50m, minimum piping length is 5m.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- 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.
- Compatibility with D-BACS



Inverter

2 Specifications

2-1 Nominal Capacity And Nominal Input			FCQHG71F/ RZQSG71L3V1	FCQHG100F/ RZQSG100L8V1	FCQHG125F/ RZQSG125L8V1	FCQHG140F/ RZQSG140L1V1	
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	496	778	-
	Heating (Average climate)	Energy label		A+		-	-
		Pdesign	kW	7.60	8.03		-
		SCOP		4.15	4.30	4.10	-
		Annual energy consumption	kWh	2,563	2,614	2,741	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	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	2,085
	Energy label	Cooling	A		-	-	
		Heating	A		-	-	

Notes

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

2-2 Nominal Capacity And Nominal Input			FCQG71F/RZQSG71L3V1	FCQG100F/ RZQSG100L8V1	FCQG125F/ RZQSG125L8V1	FCQG140F/ RZQSG140L1V1	
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	792	-
	Heating (Average climate)	Energy label		A+		-	-
		Pdesign	kW	6.33	7.60	8.03	-
		SCOP		4.10	4.01	-	-
		Annual energy consumption	kWh	2,162	2,595	2,803	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	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	2,225
	Energy label	Cooling	A		-	-	
		Heating	A	B		-	

Notes

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

2-3 Nominal Capacity And Nominal Input			FAQ71C/RZQSG71L3V1	FAQ100C/RZQSG100L8V1	
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

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2-3 Nominal Capacity And Nominal Input			FAQ71C/RZQSG71L3V1	FAQ100C/RZQSG100L8V1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A+		
		Pdesign	kW	6.80	9.50
		SEER		6.05	5.61
		Annual energy consumption	kWh	393	593
	Heating (Average climate)	Energy label		A	A+
		Pdesign	kW	6.00	6.81
		SCOP		3.90	4.01
		Annual energy consumption	kWh	2,155	2,378
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21	3.01	
	COP		3.61	3.41	
	Annual energy consumption	kWh	1,060	1,580	
	Energy label	Cooling	A	B	
		Heating	A	B	

Notes

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

2-4 Nominal Capacity And Nominal Input			FVQ71C/RZQSG71L3V1	FVQ100C/RZQSG100L8V1	FVQ125C/RZQSG125L8V1	FVQ140C/RZQSG140LV1	
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4	
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.12	2.96	4.27	4.45
	Heating	Nom.	kW	2.08	2.99	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A			-	
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		5.50			-
		Annual energy consumption	kWh	433	605	764	-
	Heating (Average climate)	Energy label		A	A+	A	-
		Pdesign	kW	6.33	7.60		-
		SCOP		3.86	4.01	3.85	-
		Annual energy consumption	kWh	2,296	2,653	2,764	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21		2.81	3.01	
	COP		3.61		3.41		
	Annual energy consumption	kWh	1,060	1,480	2,135	2,225	
	Energy label	Cooling		A		C	-
		Heating		A		B	-

Notes

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

2-5 Nominal Capacity And Nominal Input			FBQ71C8/RZQSG71L3V1	FBQ100C8/RZQSG100L8V1	FBQ125C8/RZQSG125L8V1	FBQ140C8/RZQSG140LV1	
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	2.07	2.87	3.74	4.44
	Heating	Nom.	kW	2.08	2.96	3.85	4.54

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2 Specifications

2-5 Nominal Capacity And Nominal Input			FBQ71C8/RZQSG71L3V1	FBQ100C8/ RZQSG100L8V1	FBQ125C8/ RZQSG125L8V1	FBQ140C8/ RZQSG140L1V1		
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A+		A		-	
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		5.81	5.50	5.20	-	
		Annual energy consumption	kWh	410	605	808	-	
	Heating (Average climate)	Energy label	A		A+		A	-
		Pdesign	kW	6.00	7.60		-	-
		SCOP		3.88	4.01	3.90	-	
		Annual energy consumption	kWh	2,166	2,653	2,728	-	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.28	3.31	3.21	3.02		
	COP		3.61	3.65	3.51	3.41		
	Annual energy consumption		kWh	1,035	1,435	1,870	2,220	
	Energy label	Cooling	A				-	
		Heating	A		B		-	

Notes

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

2-6 Nominal Capacity And Nominal Input			FDQ125C/RZQSG125L8V1				
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		3.90			
		Annual energy consumption	kWh	2,728			
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21				
	COP		3.51				
	Annual energy consumption		kWh	1,870			
	Energy label	Cooling	A				
		Heating	B				

Notes

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

2-7 Nominal Capacity And Nominal Input			FHQ71C/RZQSG71L3V1	FHQ100C/ RZQSG100L8V1	FHQ125C/ RZQSG125L8V1	FHQ140C/RZQSG140L1V1	
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4	
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	1.97	2.96	4.15	4.45
	Heating	Nom.	kW	1.88	2.99	3.73	4.54

2 Specifications

2

2-7 Nominal Capacity And Nominal Input				FHQ71C/RZQSG71L3V1	FHQ100C/ RZQSG100L8V1	FHQ125C/ RZQSG125L8V1	FHQ140C/RZQSG140LV1
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		5.61			-
		Annual energy consumption	kWh	424	593	749	-
	Heating (Average climate)	Energy label		A		A+	-
		Pdesign	kW	7.60			-
		SCOP		3.90	3.91	4.01	-
		Annual energy consumption	kWh	2,727	2,721	2,653	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.46	3.21	2.89	3.01	
	COP		4.00	3.61	3.62	3.41	
	Annual energy consumption		kWh	985	1,480	2,075	2,225
	Energy label	Cooling		A		C	-
		Heating		A		-	-

Notes

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

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	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	-			
	Rows	Quantity		2	-			
	Fin pitch		mm	1.4	-			
	Passes	Quantity		8	-			
	Face area		m ²	0.641	-			
	Stages	Quantity		34	-			
	Empty tubeplate hole	Quantity		0	-			
	Tube type				ø8 Hi-XSS	-		
	Fin	Type		WF fin				
		Treatment		Anti-corrosion treatment (PE)				
Compressor	Quantity			1				
	Model			2YC63DXD	-			
	Type			Hermetically sealed swing compressor				
	Output		W	1,700	-			
	Starting method			Inverter driven				
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	-			

2 Specifications

2-8 Technical Specifications				RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	RZQSG140L1V1	
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	-		
			Super low	rpm	-			
Heating		Nom.	rpm	745	-			
	Super low	rpm	-					
Sound power level	Cooling		dBA	65	69	70	69	
	Heating		dBA	-				
Sound pressure level	Cooling	Nom.	dBA	49	53	54	53	
		Silent operation		dBA	49			
	Heating	Nom.	dBA	51	57	58	54	
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			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)				
	GWP			1,975				
	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	50			
		System	Equivalent	m	40	70		
			Chargeless	m	30			
	Additional refrigerant charge		kg/m	-	See installation manual			
Level difference	IU - OU	Max.	m	30				
	IU - IU	Max.	m	0.5				
Heat insulation			Both liquid and gas pipes					
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	Fan driver overload protector				
		03	Fuse					

2 Specifications

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2-9 Electrical Specifications				RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	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			
Current - 50Hz	Maximum fuse amps (MFA)		A	20	32			
Current - 60Hz	Maximum fuse amps (MFA)		A	-				
Wiring connections	For power supply	Remark	-	See installation manual outdoor unit				
	For connection with indoor	Remark	-	See installation manual outdoor unit				
Power supply intake				Outdoor unit only				

Notes

- (1) See separate drawing for electrical data
- (2) 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.
- (3) Short-circuit power
- (4) Related to 3D076918
- (5) PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC
- (6) 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 ≤ 75A per phase
- (7) See separate drawings for electrical data

3 Electrical data

3 - 1 Electrical Data

RZQSG71L3V1

Indoor	Outdoor	Hz-Power supply	Voltage range	Comp					OFM		IFM		
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	
FCQH71FVEB	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
FHQ71CVEB					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

SYMBOLS

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

NOTES

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

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3 Electrical data

3 - 1 Electrical Data

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RZQSG100L8V1

Indoor	Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM		
							MSC	RLA	kW	FLA	kW	FLA	
FCQH100FVEB	RZQSG100L8V1	50Hz 220-240V	Min. 198V Max. 264V	29,1	—	32	—	24,4	0,2	0,6	0,221	1,3	
FCQG35FVEB				x3	28,6	—	32	—	24,4	0,2	0,6	0,044x3	0,3x3
FCQG50FVEB				x2	28,3	—	32	—	24,4	0,2	0,6	0,039x2	0,3x2
FCQG100FVEB					28,4	—	32	—	24,4	0,2	0,6	0,117	0,7
FFQ35B9V1B				x3	29,0	—	32	—	24,4	0,2	0,6	0,055x3	0,4x3
FFQ50B9V1B				x2	29,3	—	32	—	24,4	0,2	0,6	0,055x2	0,7x2
FBQ35C8VEB				x3	32,0	—	40	—	24,4	0,2	0,6	0,140x3	1,2x3
FBQ50C8VEB				x2	30,5	—	32	—	24,4	0,2	0,6	0,140x2	1,2x2
FBQ100C8VEB					29,5	—	32	—	24,4	0,2	0,6	0,350	1,6
FHQ35B9V1B				x3	29,8	—	32	—	24,4	0,2	0,6	0,062x3	0,6x3
FHQ50B9V1B				x2	29,0	—	32	—	24,4	0,2	0,6	0,062x2	0,6x2
FHQG100CVEB					29,0	—	32	—	24,4	0,2	0,6	0,150	1,2
FAQ100CVEB					28,0	—	32	—	24,4	0,2	0,6	0,064	0,4
FVQ100CVEB					29,0	—	32	—	24,4	0,2	0,6	0,238	1,2
FHQ35CAVEB				x3	29,8	—	32	—	24,4	0,2	0,6	0,060 x 3	0,6 x 3
FHQ50CAVEB				x2	29,0	—	32	—	24,4	0,2	0,6	0,060 x 2	0,6 x 2
FHQ100CAVEB					29,1	—	32	—	24,4	0,2	0,6	0,150	1,3

SYMBOLS

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

NOTES

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

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3 Electrical data

3 - 1 Electrical Data

RZQSG125-140L(8)V1

Indoor	Outdoor	Hz-Power supply	Voltage range	Comp					OFM		IFM			
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQHG125FVEB		50Hz 220-240V	Min. 198V Max. 264V	29,3	—	32	—	24,4	0,2	0,6	0,244	1,4		
FCQG35FVEB	x4			29,0	—	32	—	24,4	0,2	0,6	0.044x4	0,3x4		
FCQG50FVEB	x3			28,6	—	32	—	24,4	0,2	0,6	0.039x3	0,3x3		
FCQG60FVEB	x2			28,3	—	32	—	24,4	0,2	0,6	0.044x2	0,3x2		
FCQG125FVEB				28,8	—	32	—	24,4	0,2	0,6	0,168	1,0		
FFQ35B9V1B	x4			29,5	—	32	—	24,4	0,2	0,6	0.055x4	0,4x4		
FFQ50B9V1B	x3			30,1	—	32	—	24,4	0,2	0,6	0.055x3	0,7x3		
FFQ60B9V1B	x2			29,3	—	32	—	24,4	0,2	0,6	0.055x2	0,7x2		
FBQ35C8VEB	x4			33,5	—	40	—	24,4	0,2	0,6	0.140x4	1,2x4		
FBQ50C8VEB	x3			32,0	—	40	—	24,4	0,2	0,6	0.140x3	1,2x3		
FBQ60C8VEB	x2			30,3	—	32	—	24,4	0,2	0,6	0.350x2	1,1x2		
FBQ125C8VEB				30,1	—	32	—	24,4	0,2	0,6	0,350	2,1		
FHQ35BWV1B	x4			30,5	—	32	—	24,4	0,2	0,6	0.062x4	0,6x4		
FHQ50BWV1B	x3			29,8	—	32	—	24,4	0,2	0,6	0.062x3	0,6x3		
FHQ60BWV1B	x2			29,0	—	32	—	24,4	0,2	0,6	0.062x2	0,6x2		
FHQG125CVEB				29,5	—	32	—	24,4	0,2	0,6	0,150	1,6		
FDQ125C7VEB				30,1	—	32	—	24,4	0,2	0,6	0,350	2,1		
FVQ125CVEB				29,0	—	32	—	24,4	0,2	0,6	0,238	1,2		
FHQ35CAVEB	x4			30,5	—	32	—	24,4	0,2	0,6	0,060x4	0,6 x 4		
FHQ50CAVEB	x3			29,8	—	32	—	24,4	0,2	0,6	0,060x3	0,6 x 3		
FHQ60CAVEB	x2			29,0	—	32	—	24,4	0,2	0,6	0,091x2	0,6 x 2		
FHQ125CAVEB				29,4	—	32	—	24,4	0,2	0,6	0,150	1,5		
FCQHG71FVEB	x2			50Hz 220-240V	Min. 198V Max. 264V	28,8	—	32	—	24,2	0.094+0.094	0.4+0.4	0.091x2	0,5x2
FCQHG140FVEB						29,3	—	32	—	24,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4					29,0	—	32	—	24,2	0.094+0.094	0.4+0.4	0.044x4	0,3x4
FCQG50FVEB	x3					28,6	—	32	—	24,2	0.094+0.094	0.4+0.4	0.039x3	0,3x3
FCQG71FVEB	x2					28,5	—	32	—	24,2	0.094+0.094	0.4+0.4	0.054x2	0,4x2
FCQG140FVEB						28,8	—	32	—	24,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35B9V1B	x4					29,5	—	32	—	24,2	0.094+0.094	0.4+0.4	0.055x4	0,4x4
FFQ50B9V1B	x3					30,1	—	32	—	24,2	0.094+0.094	0.4+0.4	0.055x3	0,7x3
FBQ35C8VEB	x4	33,5	—			40	—	24,2	0.094+0.094	0.4+0.4	0.140x4	1,2x4		
FBQ50C8VEB	x3	32,0	—			40	—	24,2	0.094+0.094	0.4+0.4	0.140x3	1,2x3		
FBQ71C8VEB	x2	30,3	—			32	—	24,2	0.094+0.094	0.4+0.4	0.350x2	1,1x2		
FBQ140C8VEB		30,1	—			32	—	24,2	0.094+0.094	0.4+0.4	0,350	2,1		
FHQ35BWV1B	x4	30,5	—			32	—	24,2	0.094+0.094	0.4+0.4	0.062x4	0,6x4		
FHQ50BWV1B	x3	29,8	—			32	—	24,2	0.094+0.094	0.4+0.4	0.062x3	0,6x3		
FHQG71CVEB	x2	29,5	—			32	—	24,2	0.094+0.094	0.4+0.4	0.091x2	0,8x2		
FHQG140CVEB		29,8	—			32	—	24,2	0.094+0.094	0.4+0.4	0,150	1,8		
FAQ71CVEB	x2	28,5	—			32	—	24,2	0.094+0.094	0.4+0.4	0.048x2	0,4x2		
FVQ140CVEB		29,3	—			32	—	24,2	0.094+0.094	0.4+0.4	0,276	1,4		
FHQ35CAVEB	x4	30,5	—			32	—	24,2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4		
FHQ50CAVEB	x3	29,8	—			32	—	24,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3		
FHQ71CAVEB	x2	29,5	—			32	—	24,2	0.094+0.094	0.4+0.4	0,091 x 2	0,8 x 2		
FHQ140CAVEB		29,8	—			32	—	24,2	0.094+0.094	0.4+0.4	0,15	1,8		

SYMBOLS

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

NOTES

- 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

RZQSG-L(3/8)V1

	FBQ35C8	FBQ50C8	FBQ60C8	FBQ71C8	FBQ100C8	FBQ125C8	FBQ140C8
RZQSG71L3V1	2 (77.1)			P (89.7)			
RZQSG100L8V1	3 (97.3)	2 (77.1)			P (89.7)		
RZQSG125L8V1	3/4 (116.2)	3 (97.3)	2 (138.1)			P (89.7)	
RZQSG140LV1	4 (116.2)	3 (97.3)		2 (138.1)			P (89.7)

P = Pair
 2 =Twin
 3 =Triple
 4 =Double twin

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NOTES

- In accordance with EN/IEC 61000-3-12⁽¹⁾, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc}^{(2)} \geq$ minimum Ssc value.
- ⁽¹⁾ European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and \leq 75A per phase.
- ⁽²⁾ Short-circuit power

4 Options

4 - 1 Options

RZQSG71L3V1

Available options for RZQSG models:

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

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RZQSG100-140L(8)V1

Available options for RZQSG models:

Name of option		Kit name		
		RZQSG100L8V1	RZQSG125L8V1	RZQSG140LV1
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 adapter kit		KRP58M51		

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NOTES

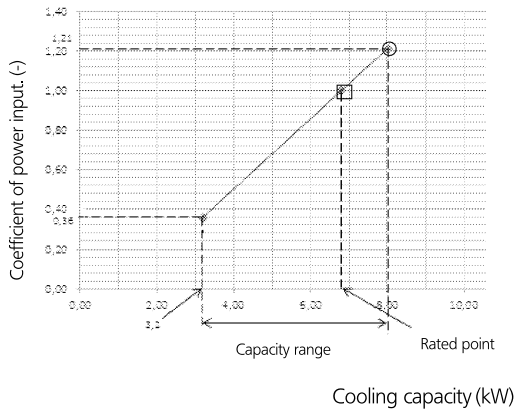
- For combination of RZQSG71L7V1B and EKBPH140L7 it is required to use the demand adapter kit KRP58M51 in order to connect the bottom plate heater.
- For RZQ(S)G71-140LY1 in combination with FCQG35-71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQSG71L3V1

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 ○ 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)

	FCQH71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CA
AFR	21.2	21.5	18	20.5	18	18	20.5
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)	(0.13)

(Twin)

	FCQG35F2	FFQ35x2	FBQ35C2	FHQ35B1Wx2	FHQ35CAx2	FFQ35C2x2	FDXS35F2x2
AFR	12.5x2	10x2	16x2	13x2	14x2	10x2	8.7x2
(BF)	(0.4x2)	(0.25x2)	(0.15x2)	(0.20x2)	(0.17x2)	(0.25x2)	(0.17x2)

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

(Pair)

	FCQH71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CA
Cooling	1.94	2.12	2.07	1.97	2.12	2.12	1.97

(Twin)

	FCQG35F2	FFQ35x2	FBQ35C2	FHQ35B1Wx2	FHQ35CAx2	FFQ35C2x2	FDXS35F2x2
Cooling	2.28	2.30	2.11	2.51	2.47	2.29	2.31

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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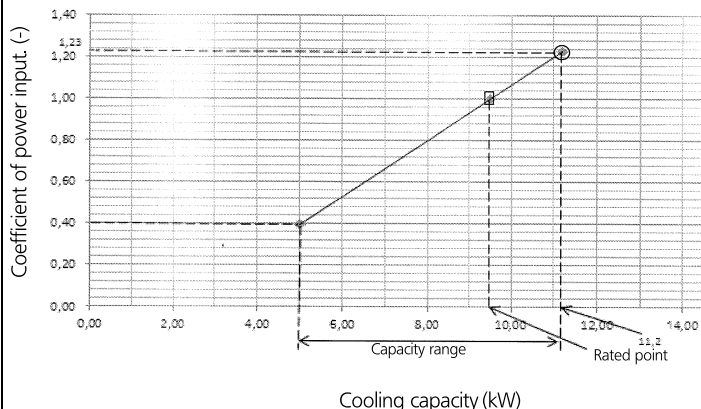
6 Capacity tables

6 - 1 Cooling Capacity Tables

6

RZQSG100L8V1

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	1.08	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)

	FCQH100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CA
AFR	32.3	32.0	32.0	20.0	26.0	28.0	28.0
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.10)	(0.20)	(0.09)

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B11x3	FHQ35CAx3
AFR	12.5x3	10.0x3	16.0x3	13.0x3	14.0x3
(BF)	(0.4x3)	(0.25x3)	(0.15x3)	(0.20x3)	(0.17x3)

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

(Pair)

	FCQH100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CA
Cooling	2.57	2.88	2.87	2.96	3.16	2.96	2.96

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B11x3	FHQ35CAx3
Cooling	2.82	2.86	2.93	3.39	3.33

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)

	FCQ50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50B11x2	FHQ50CAx2
AFR	12.6x2	12.0x2	16.0x2	13.0x2	15.0x2
(BF)	(0.22x2)	(0.16x2)	(0.16x2)	(0.10x2)	(0.18x2)

(Twin)

	FCQ50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50B11x2	FHQ50CAx2
Cooling	2.76	2.86	2.93	3.39	3.35

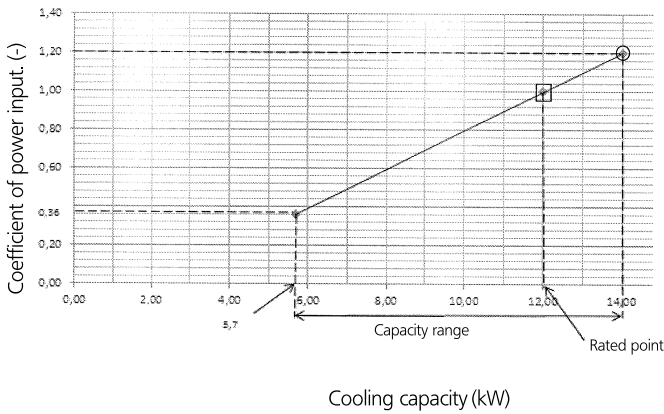
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQSG125L8V1

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	9,28	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	8,89	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)

	FCQH125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CA
AFR	33.5	33.0	39.0	31.0	39.0	28.0	31.0
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.16)	(0.16)	(0.14)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50B9x3	FHQ50CAx3
AFR	12.6x3	12.0x3	16.0x3	13.0x3	15.0x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)	(0.18x3)

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

(Pair)

	FCQH125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CA
Cooling	3.71	3.74	3.74	4.15	3.74	4.27	4.15

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50B9x3	FHQ50CAx3
Cooling	3.69	4.08	3.95	4.39	4.33

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	FFQ60B9x2	FBQ60Cx2	FHQ60B9x2	FHQ60CAx2
AFR	13.6x2	15.0x2	18.0x2	17.0x2	19.5x2
(BF)	(0.2x2)	(0.11x2)	(0.15x2)	(0.20x2)	(0.20x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35B9x4	FHQ35CAx4
AFR	12.5x4	10x4	16x4	13x4	14x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)	(0.17x4)

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60B9x2	FHQ60CAx2
Cooling	3.66	4.08	3.95	4.39	4.34

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35B9x4	FHQ35CAx4
Cooling	3.75	4.08	3.95	4.39	4.31

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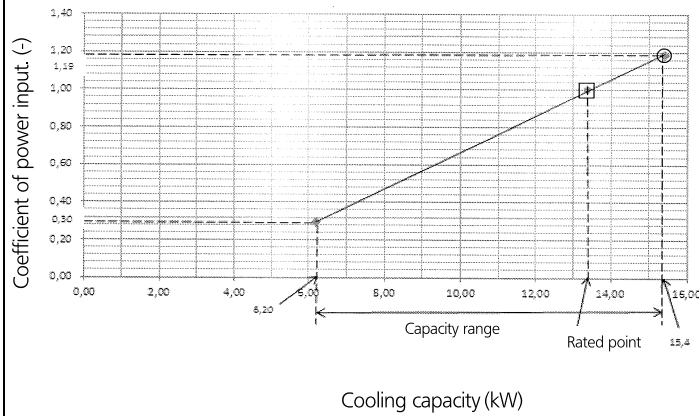
6 Capacity tables

6 - 1 Cooling Capacity Tables

6

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:

(Pair)

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA
AFR	33.5	33.0	39	34.0	30.0	34.0
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50B9x3	FHQ50CAx3
AFR	12.6x3	12.0x3	16.0x3	13.0x3	15.0x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)	(0.18x3)

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

(Pair)

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA
Cooling	4.17	4.45	4.44	4.45	4.45	4.45

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50B9x3	FHQ50CAx3
Cooling	4.40	4.62	4.17	4.73	4.67

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)

	FCQHG71Fx2	FCQG71Fx2	FBQ71Cx2	FHQG71Cx2	FAQ71Cx2	FHQ71CAx2
AFR	21.2x2	21.5x2	18.0x2	20.5x2	18.0x2	20.5x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)	(0.13x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35B9x4	FHQ35CAx4
AFR	12.5x4	10.0x4	16.0x4	13.0x4	14.0x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)	(0.20x4)

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71Cx2	FHQG71Cx2	FAQ71Cx2	FHQ71CAx2
Cooling	4.11	4.39	4.17	4.01	4.23	4.01

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35B9x4	FHQ35CAx4
Cooling	4.46	4.62	4.17	4.73	4.65

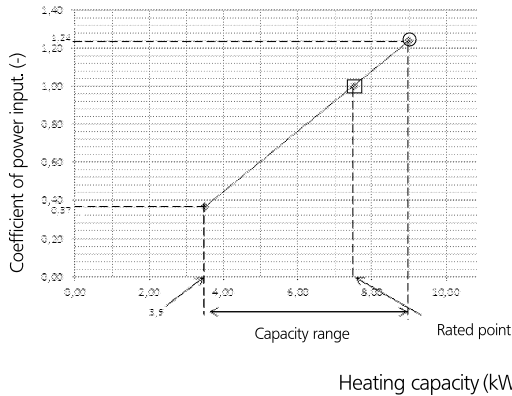
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQSG71L3V1

Heating



Heating

Indoor	Outdoor temperature (°CWB)															
	-15.0		-10.0		-5.0		0.0		6.0		10.0					
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI				
°CDB	kW		-		kW		-		kW		-		kW		-	
16	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13				
18	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18				
20	5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23				
21	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25				
22	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28				
24	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32				

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 × AFR (m³/min) × (1-BF) × (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)

	FCQH71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CA
AFR	21.2	21.5	18	20.5	18	18	20.5
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)	(0.13)

(Twin)

	FCQG35F2	FFQ35x2	FBQ35C2	FHQ35B1W2	FHQ35CAx2	FFQ35C2x2	FDXS35F2x2
AFR	12.5x2	10x2	16x2	13x2	14x2	10x2	8.7x2
(BF)	(0.4x2)	(0.25x2)	(0.15x2)	(0.20x2)	(0.17x2)	(0.25x2)	(0.17x2)

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

(Pair)

	FCQH71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CA
Heating	1.83	2.08	2.08	1.88	2.08	2.08	1.88

(Twin)

	FCQG35F2	FFQ35x2	FBQ35C2	FHQ35B1W2	FHQ35CAx2	FFQ35C2x2	FDXS35F2x2
Heating	2.37	2.32	2.16	2.78	2.70	2.31	2.39

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.

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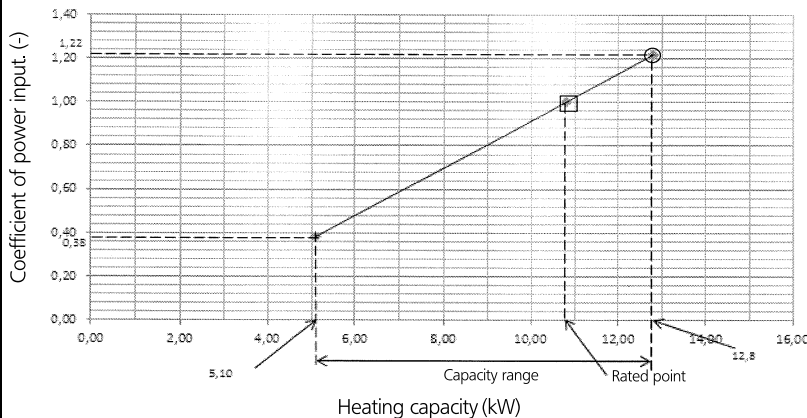
6 Capacity tables

6 - 2 Heating Capacity Tables

6

RZQSG100L8V1

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	8.58	0.93	9.45	0.99	10.1	1.02	10.4	1.05	12.8	1.12	13.8	1.18
18	8.57	0.97	9.44	1.02	10.0	1.07	10.3	1.10	12.8	1.17	13.8	1.23
20	8.56	1.01	9.43	1.07	10.0	1.11	10.3	1.14	12.8	1.22	13.8	1.28
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
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.33
24	8.54	1.09	9.41	1.15	10.0	1.19	10.3	1.23	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	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CA
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	20.0 (0.09)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B1Vx3	FHQ35CAx3
AFR (BF)	12.5x3 (0.4x3)	10.0x3 (0.25x3)	16.0x3 (0.15x3)	13.0x3 (0.20x3)	14.0x3 (0.17x3)

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

(Pair)

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CA
Heating	2.51	3.05	2.96	2.99	3.17	2.99	2.99

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B1Vx3	FHQ35CAx3
Heating	2.66	2.79	2.86	3.32	3.26

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)

	FCQGS0F2	FFQ50B9x2	FBQ50C2	FHQ50B1Vx2	FHQ50CAx2
AFR (BF)	12.6x2 (0.22x2)	12.0x2 (0.16x2)	16.0x2 (0.16x2)	13.0x2 (0.10x2)	15.0x2 (0.18x2)

(Twin)

	FCQGS0F2	FFQ50B9x2	FBQ50C2	FHQ50B1Vx2	FHQ50CAx2
Heating	2.61	2.79	2.86	3.32	3.28

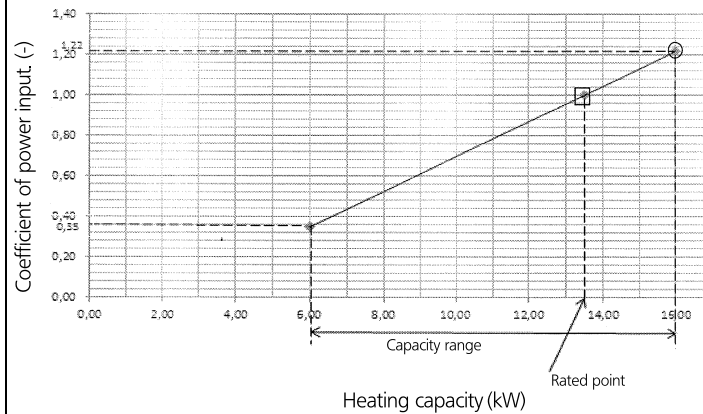
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQSG125L8V1

Heating



Heating

Indoor	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW											
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	10.7	0.97	11.8	1.02	12.5	1.07	12.9	1.10	16.0	1.17	17.3	1.23
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
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
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
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

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)

	FCQH125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CA
AFR	33.5	33.0	39.0	31.0	39.0	28.0	31.0
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.16)	(0.16)	(0.14)

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BwX2	FHQ60Cax2
AFR	13.6x2	15.0x2	18.0x2	17.0x2	19.5x2
(BF)	(0.2x2)	(0.11x2)	(0.15x2)	(0.20x2)	(0.20x2)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BwX3	FHQ50Cax3
AFR	12.6x3	12.0x3	16.0x3	13.0x3	15.0x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)	(0.18x3)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BwX4	FHQ35Cax4
AFR	12.5x4	10x4	16x4	13x4	14x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)	(0.17x4)

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

(Pair)

	FCQH125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CA
Heating	3.60	3.96	3.85	3.73	3.85	3.96	3.73

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BwX2	FHQ60Cax2
Heating	3.88	4.15	4.06	4.48	4.43

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BwX3	FHQ50Cax3
Heating	3.90	4.15	4.06	4.48	4.42

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BwX4	FHQ35Cax4
Heating	3.96	4.15	4.06	4.48	4.32

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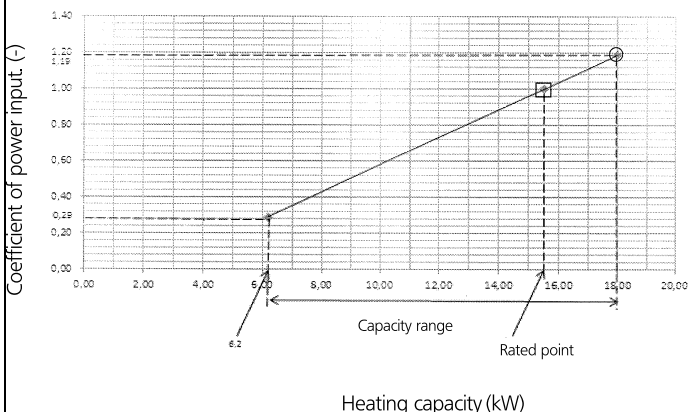
6 Capacity tables

6 - 2 Heating Capacity Tables

6

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	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	18.0	1.19	19.4	1.25
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.35

NOTES

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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)

	FCQH140F	FCQ140F	FBQ140C	FHQ140C	FVQ140C	FHQ140CA
AFR	33.5	33.0	41	34.0	30.0	34.0
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)

(Triple)

	FCQG50F3	FFQ50B9x3	FBQ50C3	FHQ50BWX3	FHQ50CAx3
AFR	12.6x3	12.0x3	16.0x3	13.0x3	15.0x3
(BF)	(0.22x3)	(0.16x3)	(0.16x3)	(0.10x3)	(0.18x3)

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

(Pair)

	FCQH140F	FCQ140F	FBQ140C	FHQ140C	FVQ140C	FHQ140CA
Heating	4.29	4.54	4.54	4.54	4.54	4.54

(Triple)

	FCQG50F3	FFQ50B9x3	FBQ50C3	FHQ50BWX3	FHQ50CAx3
Heating	4.48	5.16	4.94	5.73	5.67

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)

	FCQH71F2	FCQ71F2	FBQ71C2	FHQ71C2	FAQ71C2	FHQ71CAx2
AFR	21.2x2	21.5x2	18.0x2	20.5x2	18.0x2	20.5x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)	(0.13x2)

(Double twin)

	FCQG35F4	FFQ35B9x4	FBQ35C4	FHQ35BWX4	FHQ35CAx4
AFR	12.5x4	10.0x4	16.0x4	13.0x4	14.0x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)	(0.20x4)

(Twin)

	FCQH71F2	FCQ71F2	FBQ71C2	FHQ71C2	FAQ71C2	FHQ71CAx2
Heating	4.23	4.48	4.94	4.71	4.92	4.71

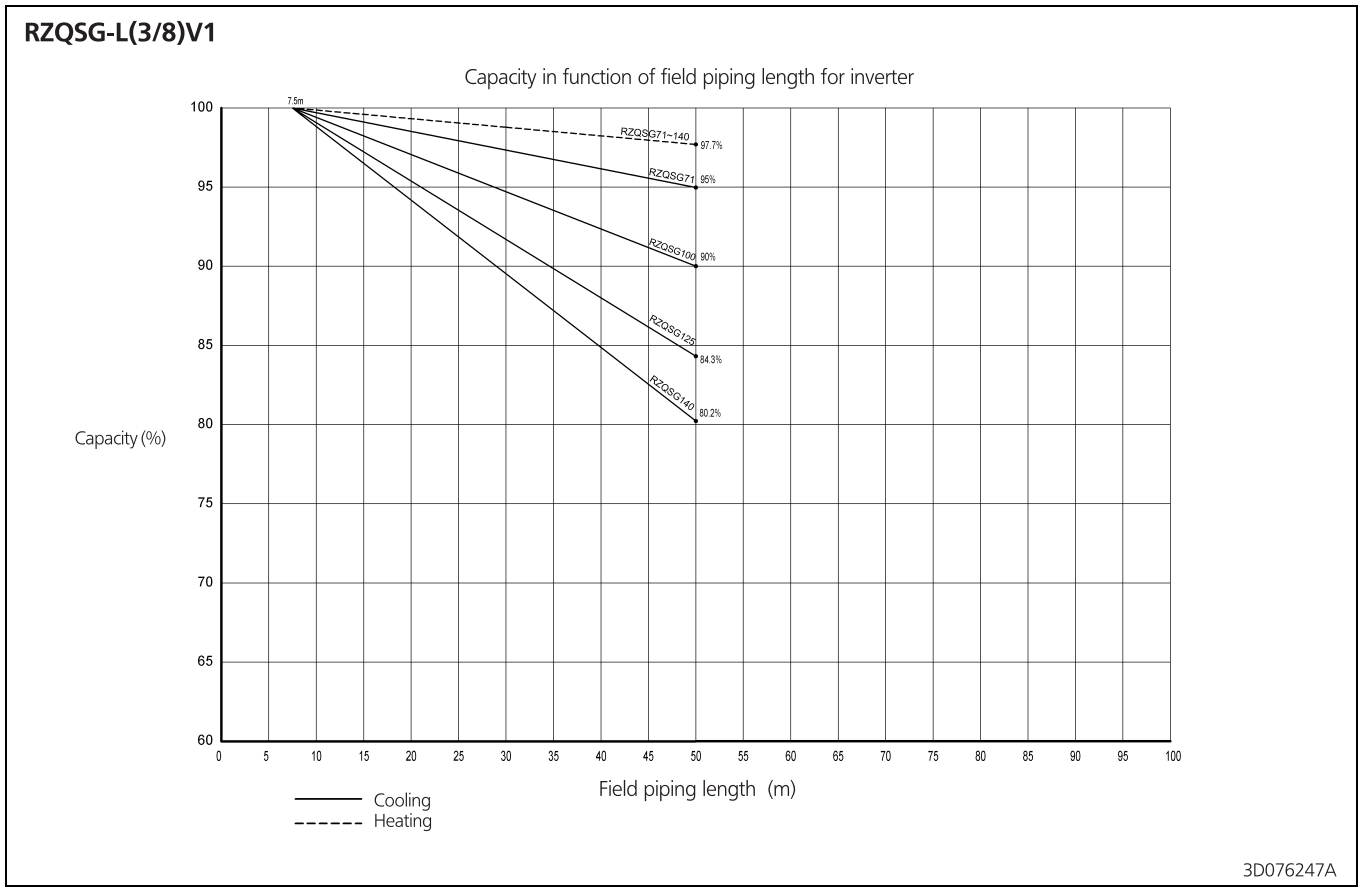
(Double twin)

	FCQG35F4	FFQ35B9x4	FBQ35C4	FHQ35BWX4	FHQ35CAx4
Heating	4.54	5.16	4.94	5.73	5.57

3D076755A

6 Capacity tables

6 - 3 Capacity Correction Factor



7 Dimensional drawings

7 - 1 Dimensional Drawings

7

RZQSG71L3V1

Hole for anchor bolt 4-M12

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

3D082346

RZQSG100-125L8V1

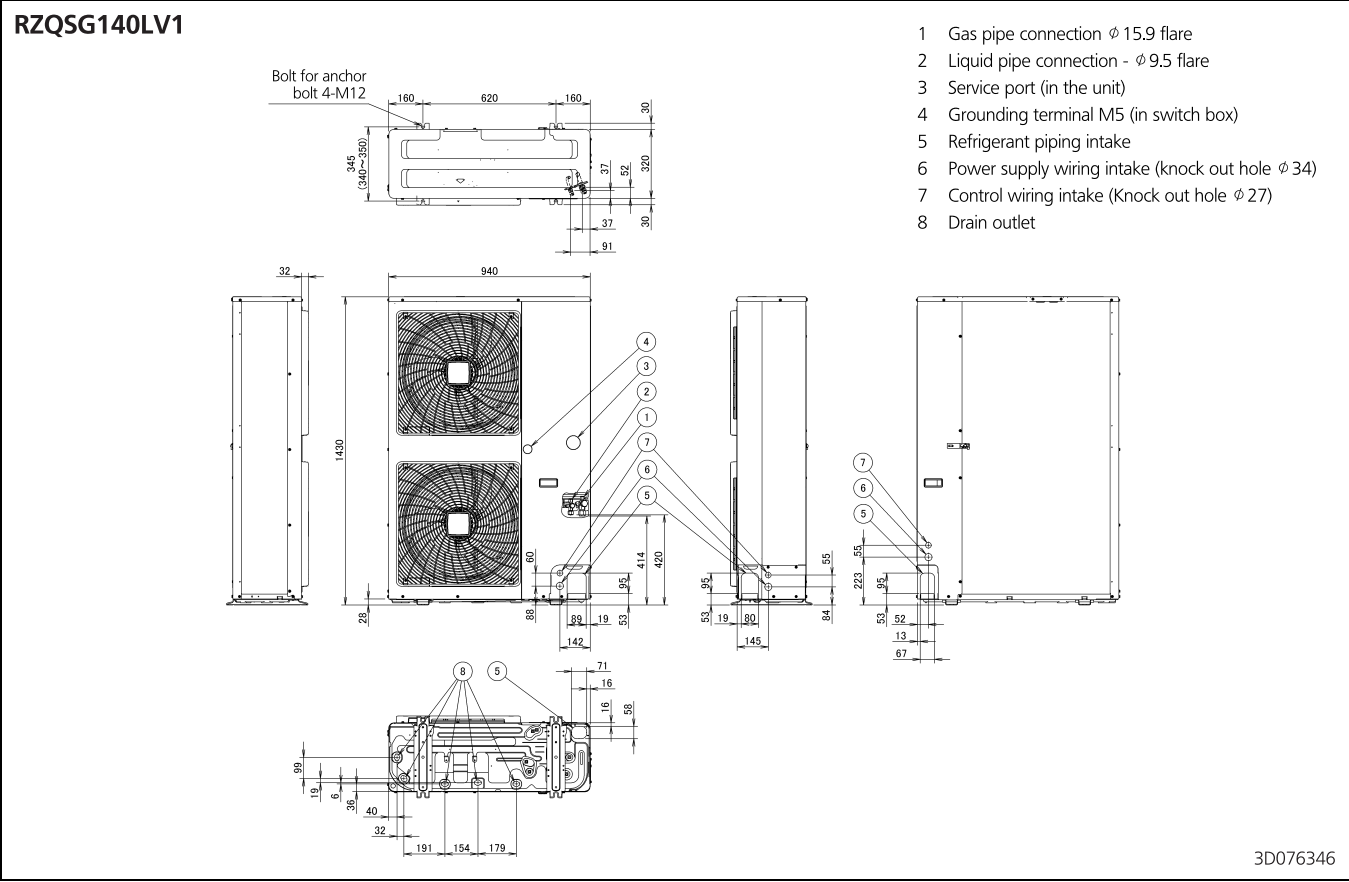
Bolt for anchor bolt 4-M12

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

3D076345

7 Dimensional drawings

7 - 1 Dimensional Drawings

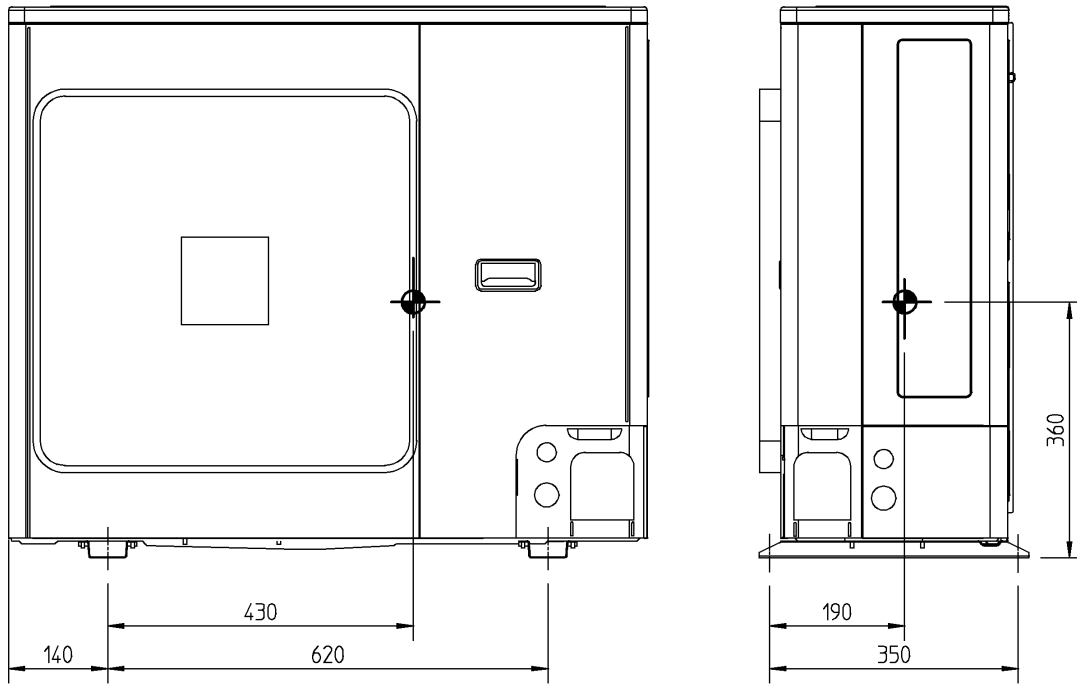


8 Centre of gravity

8 - 1 Centre of Gravity

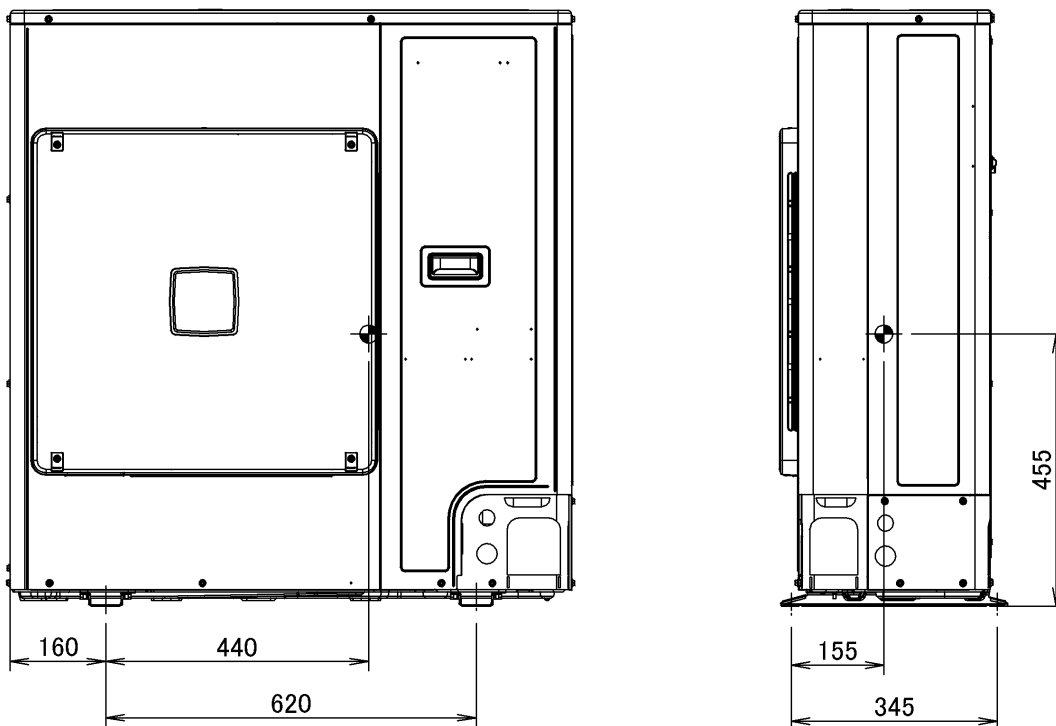
8

RZQSG71L3V1



4TW30469-3

RZQSG100-125L8V1

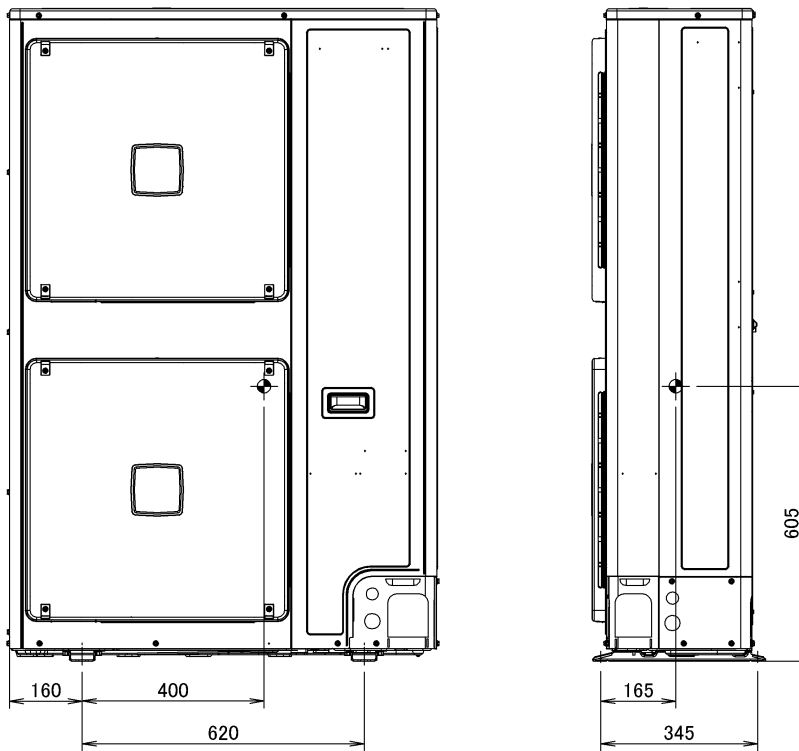


4D076239

8 Centre of gravity

8 - 1 Centre of Gravity

RZQSG140LV1

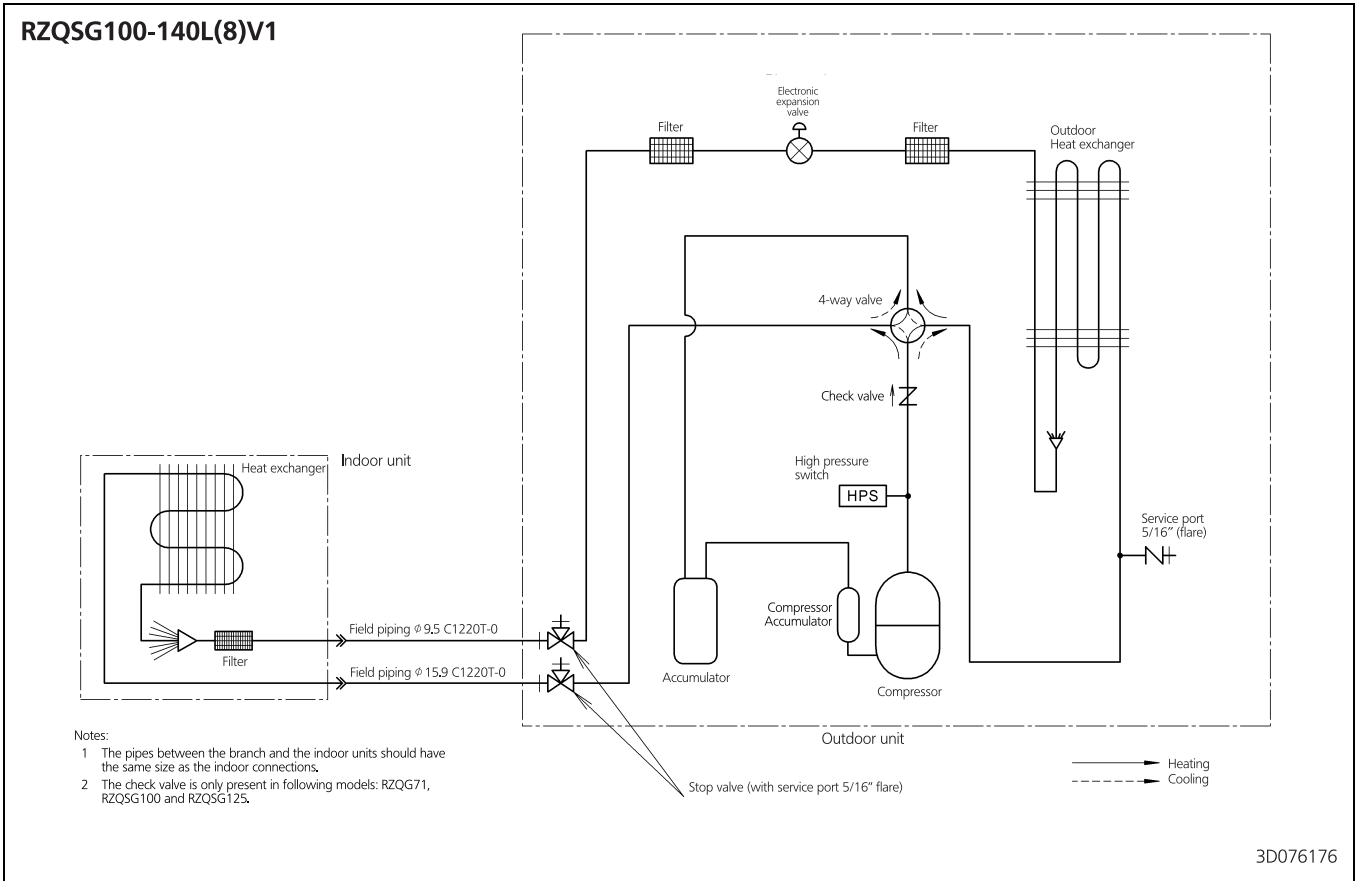
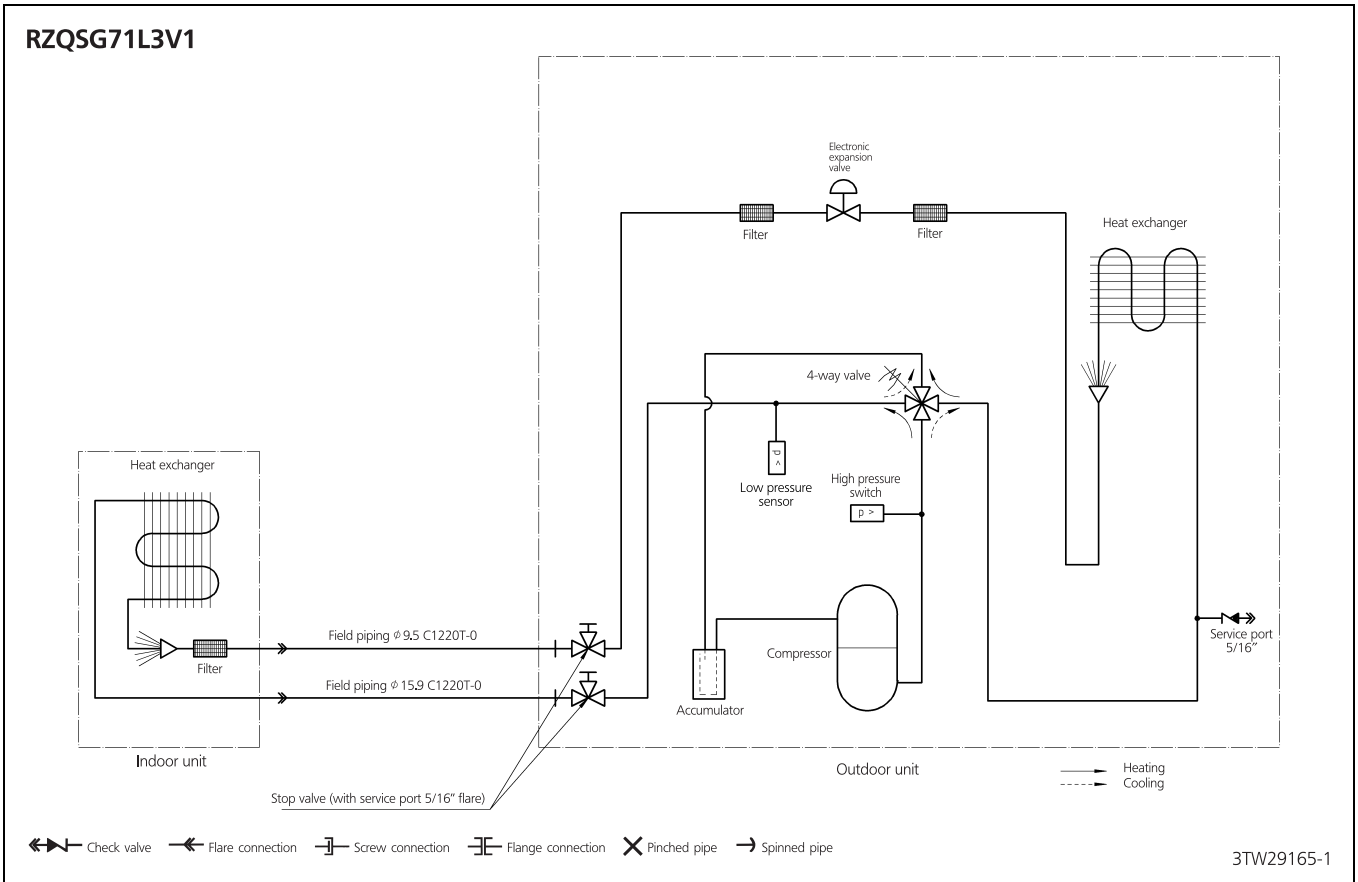


4D076248

9 Piping diagrams

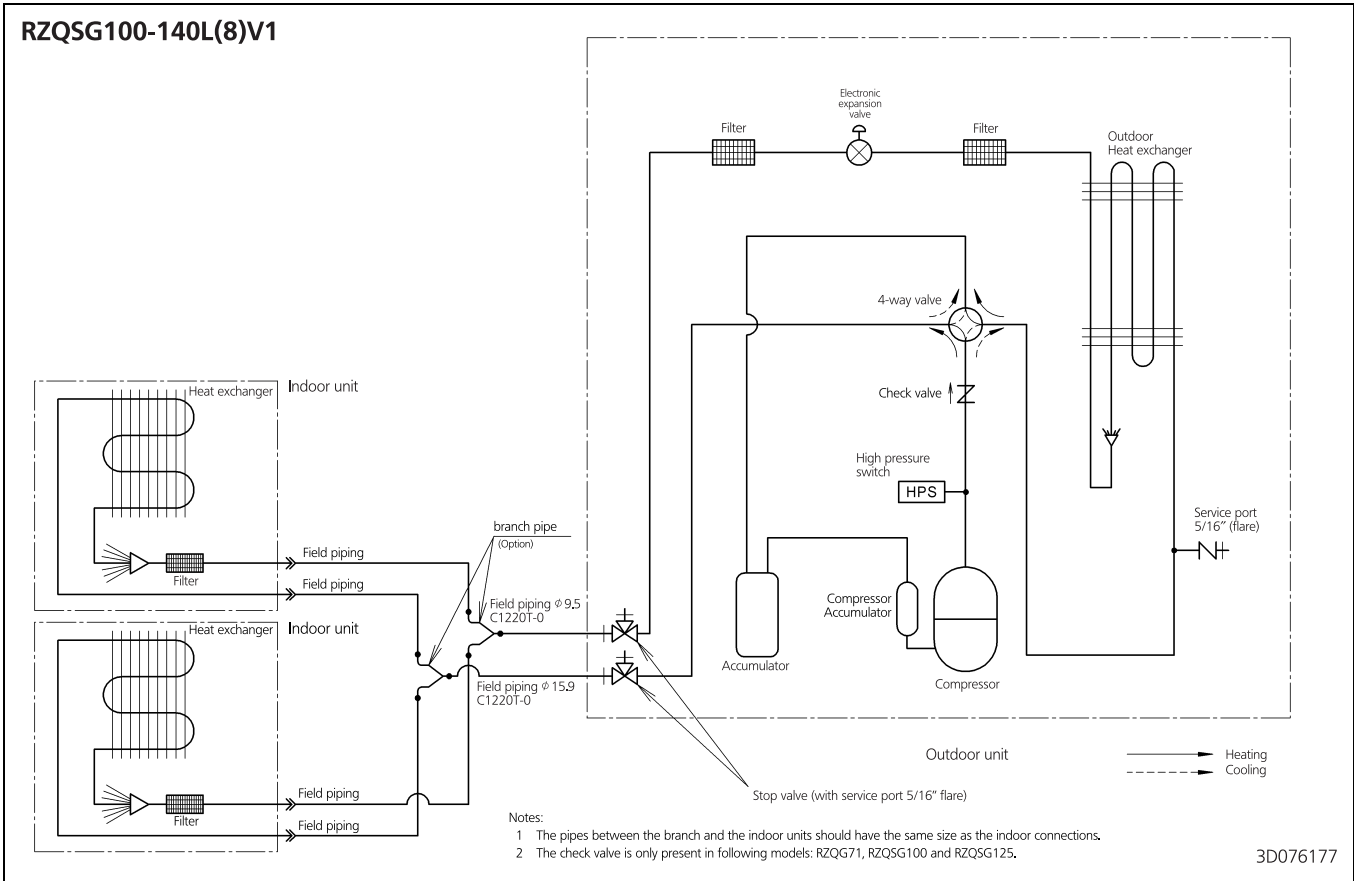
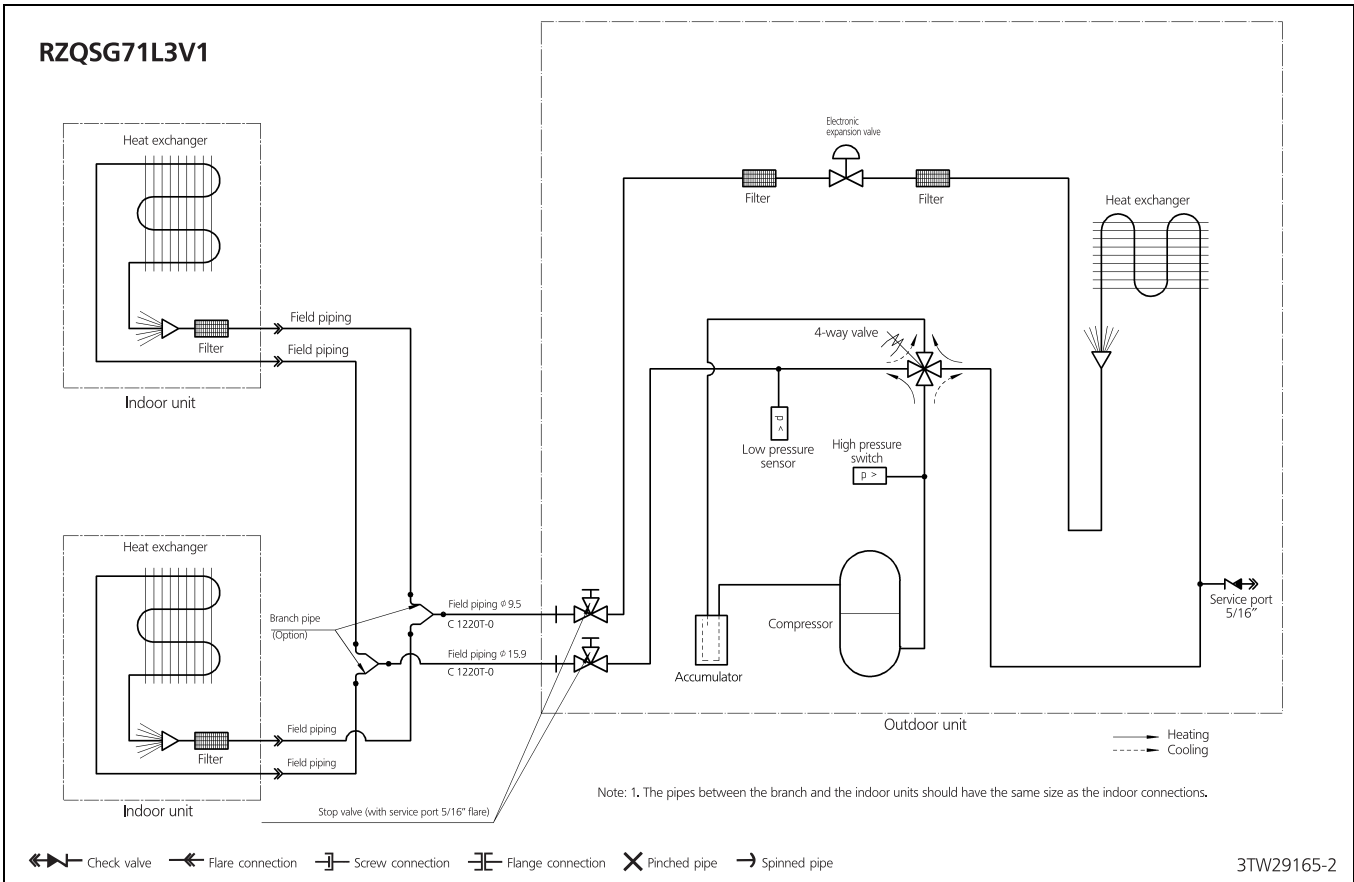
9 - 1 Piping Diagrams

9



9 Piping diagrams

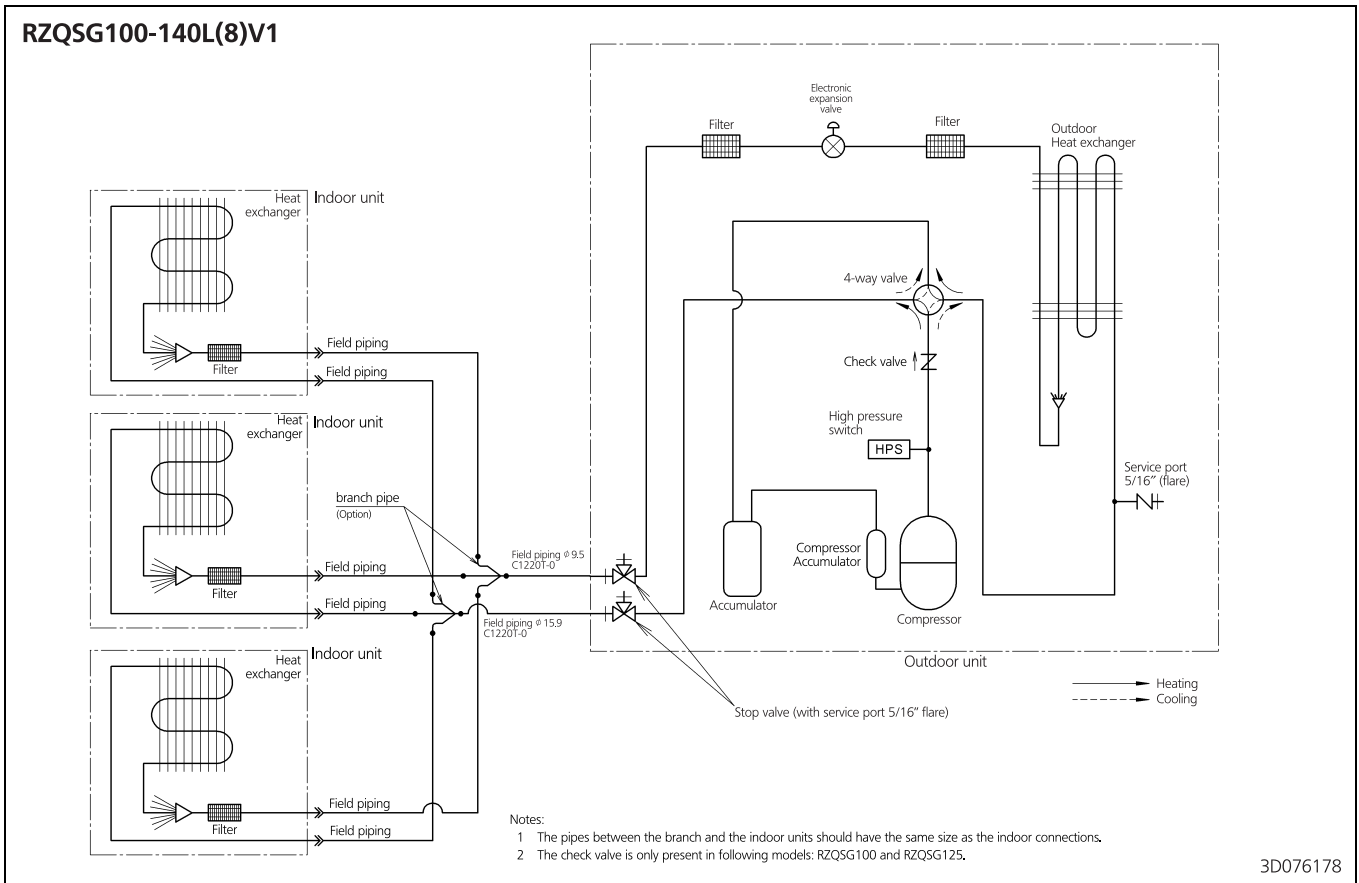
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

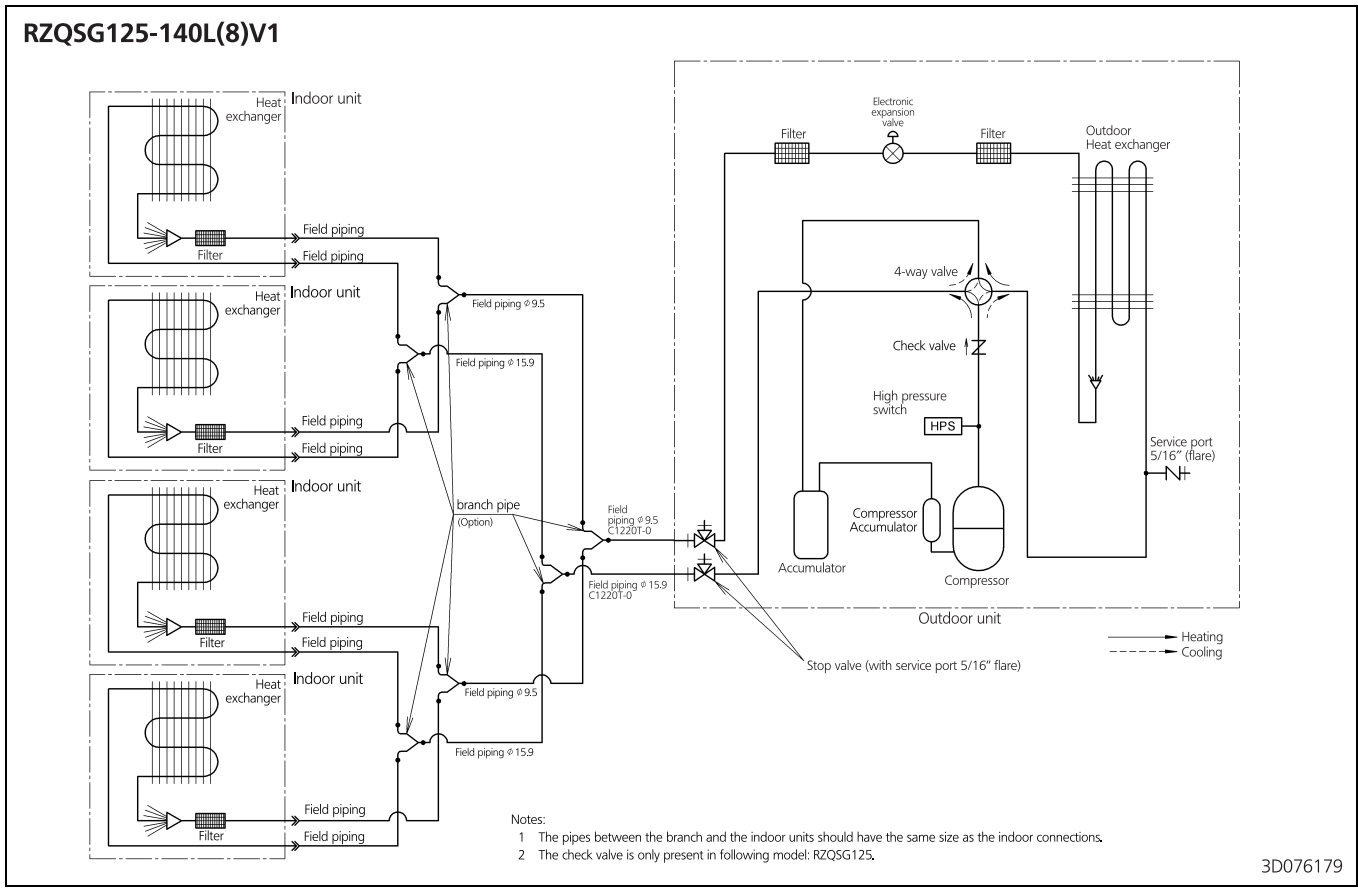
9 - 3 Piping Diagram Triple Application

9



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

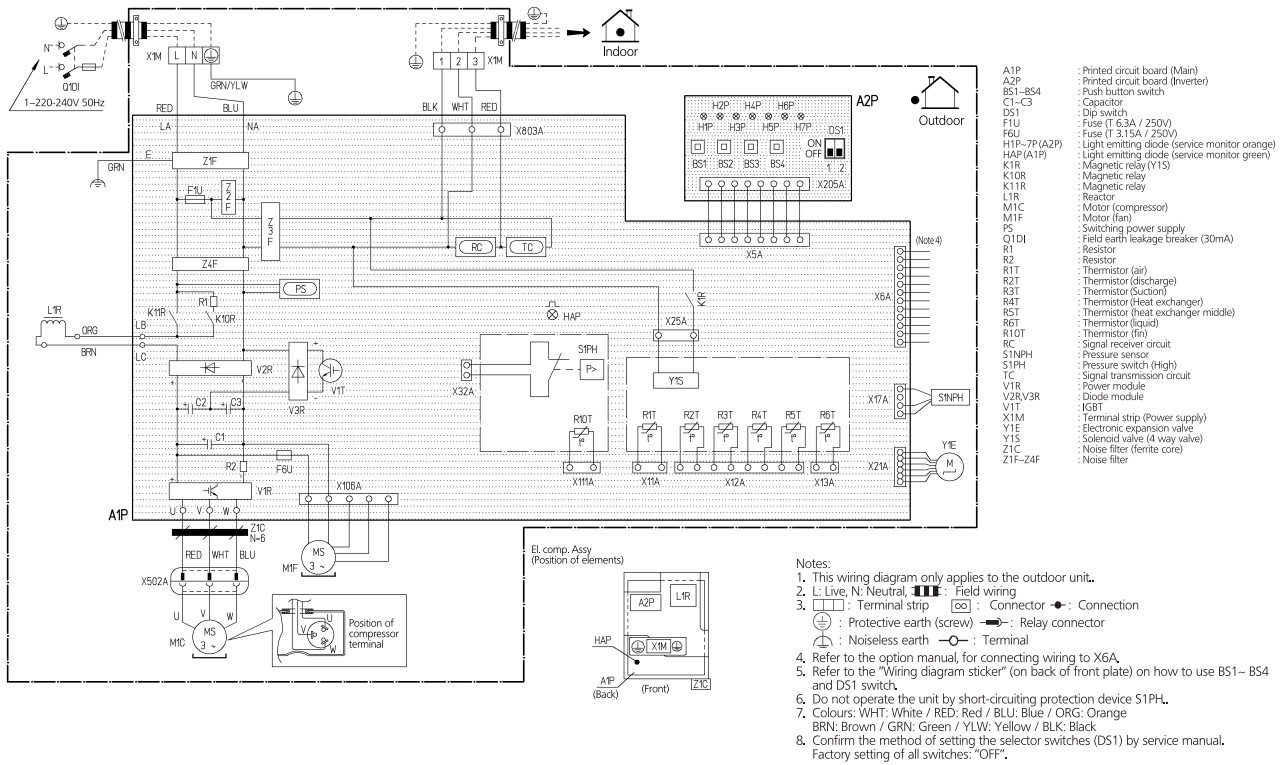


10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

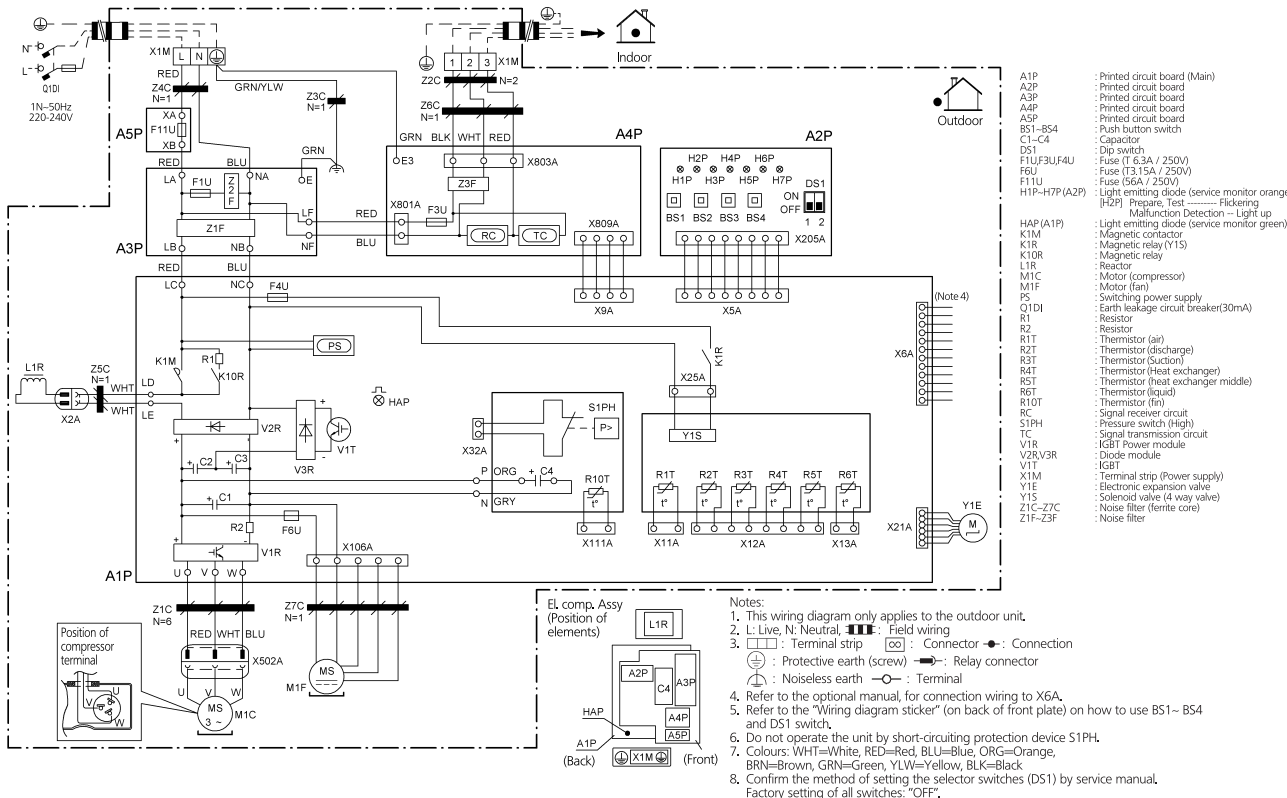
10

RZQSG71L3V1



2TW30466-1B

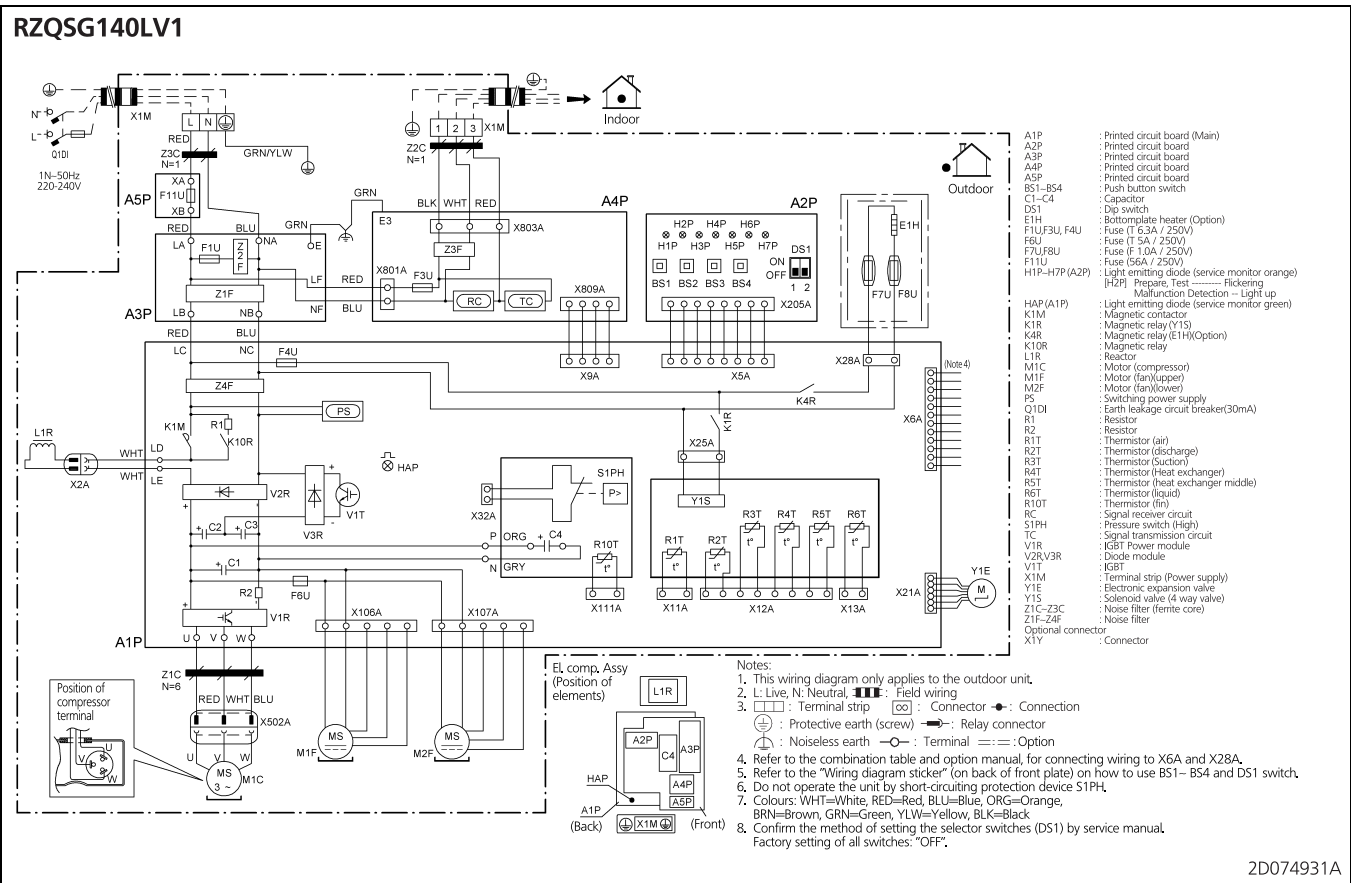
RZQSG100-125L8V1



2D074930A

10 Wiring diagrams

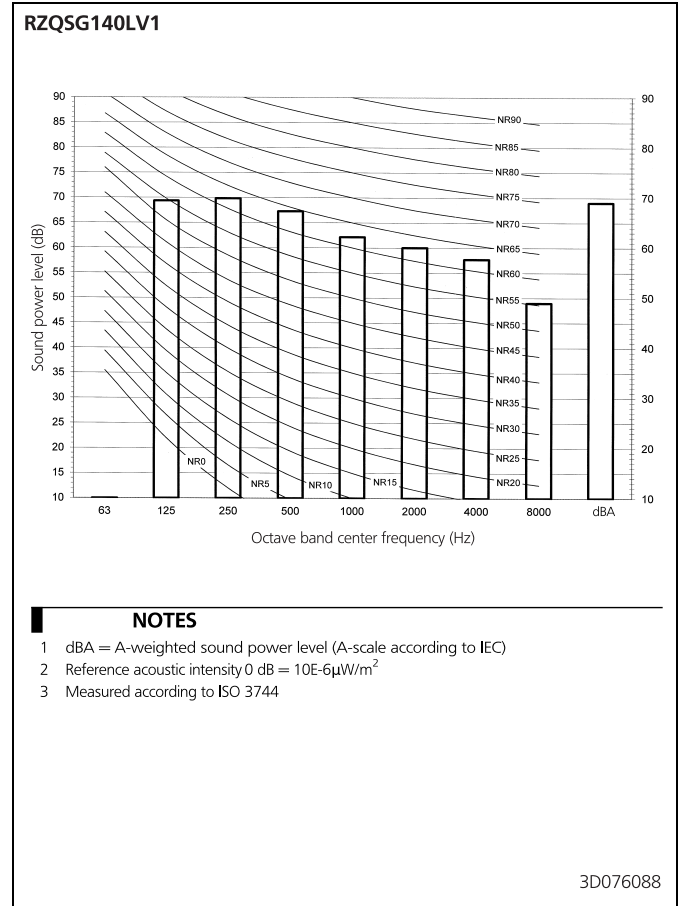
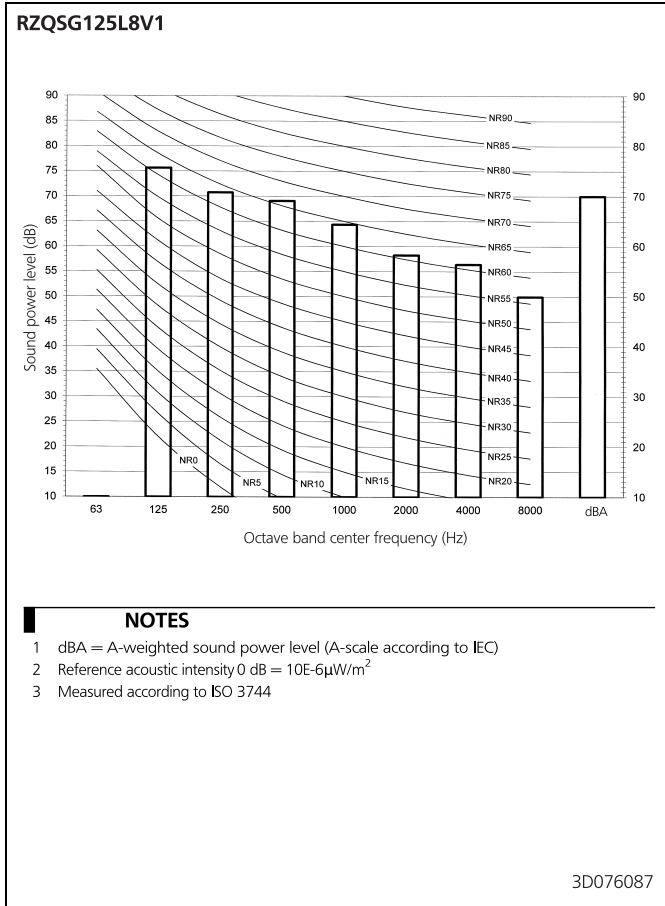
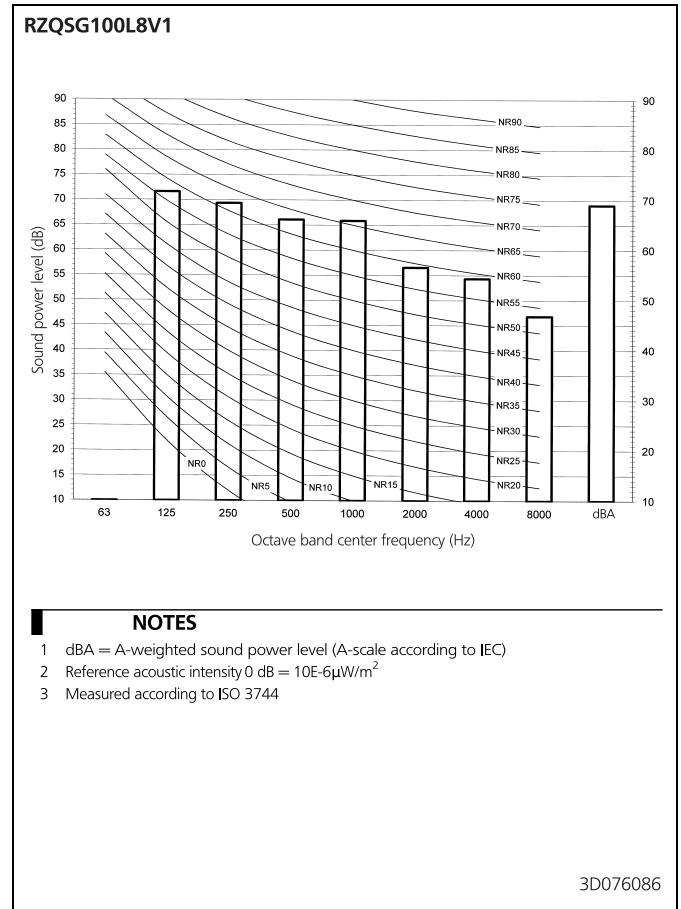
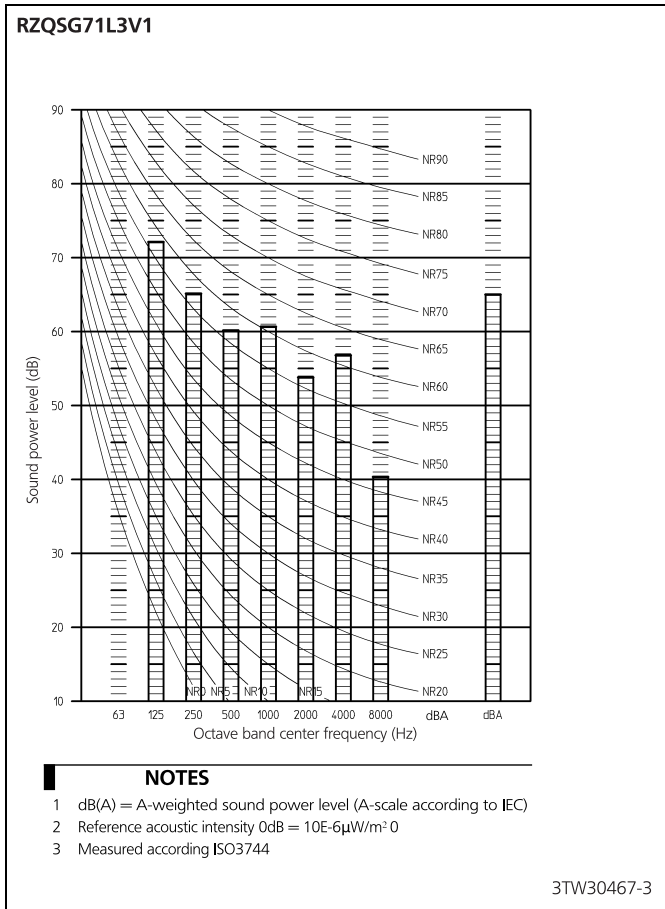
10 - 1 Wiring Diagrams - Single Phase



2D074931A

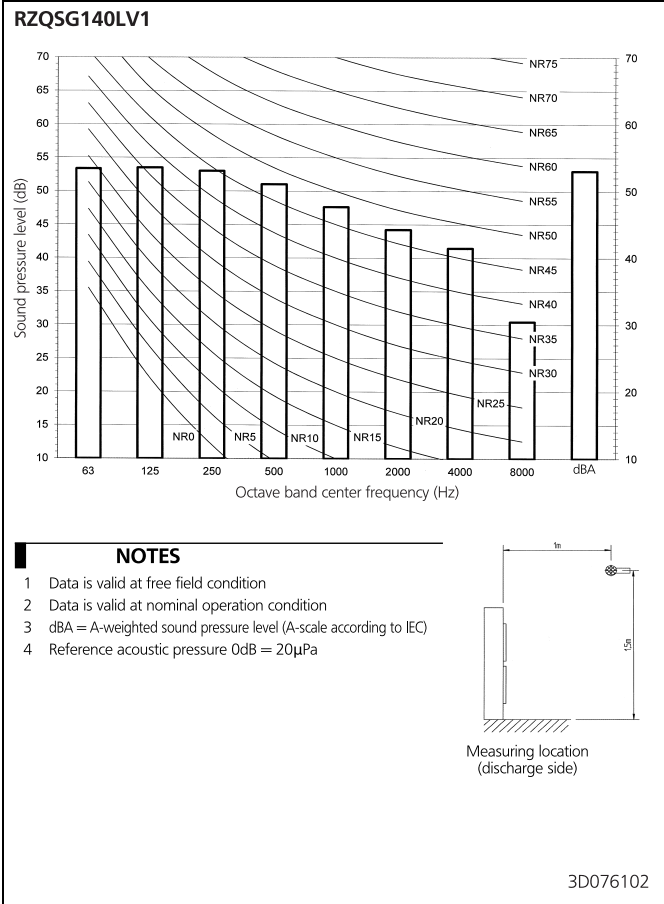
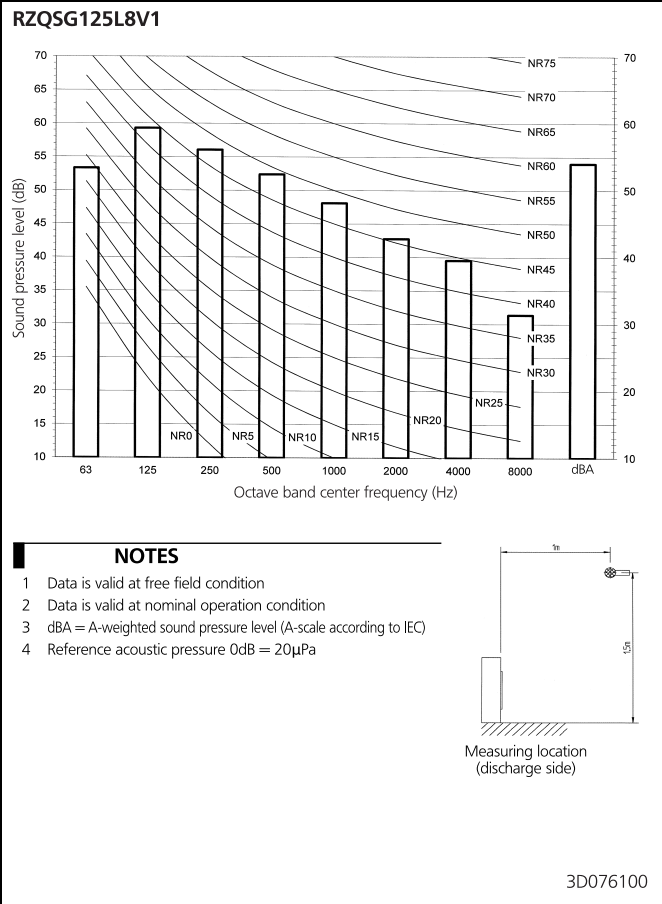
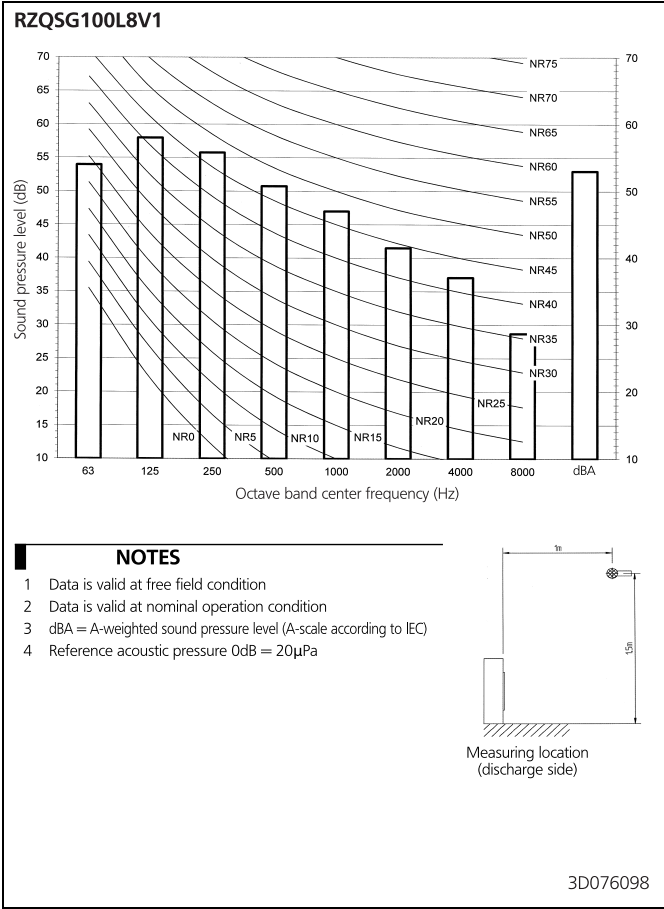
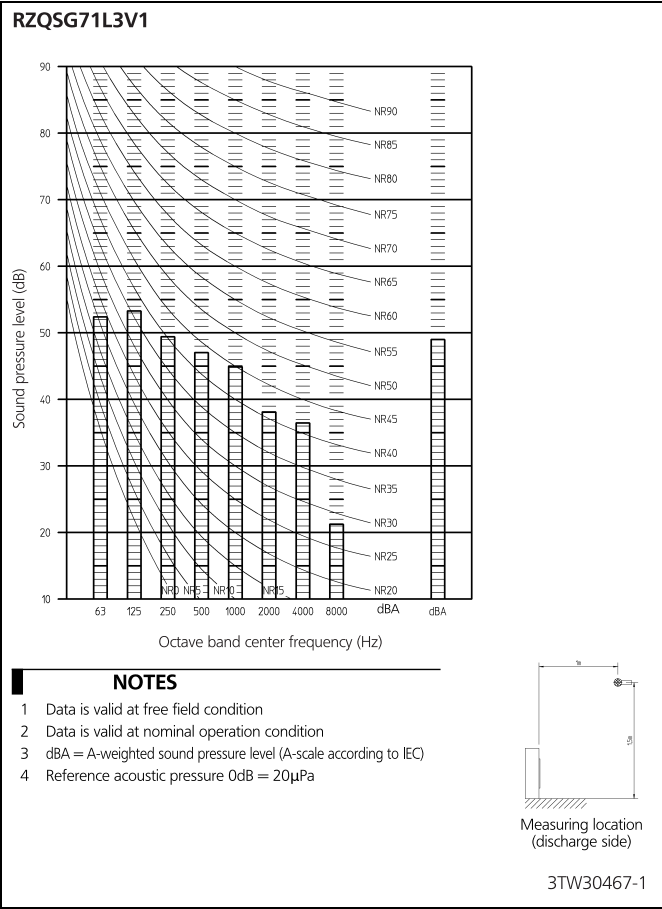
11 Sound data

11 - 1 Sound Power Spectrum



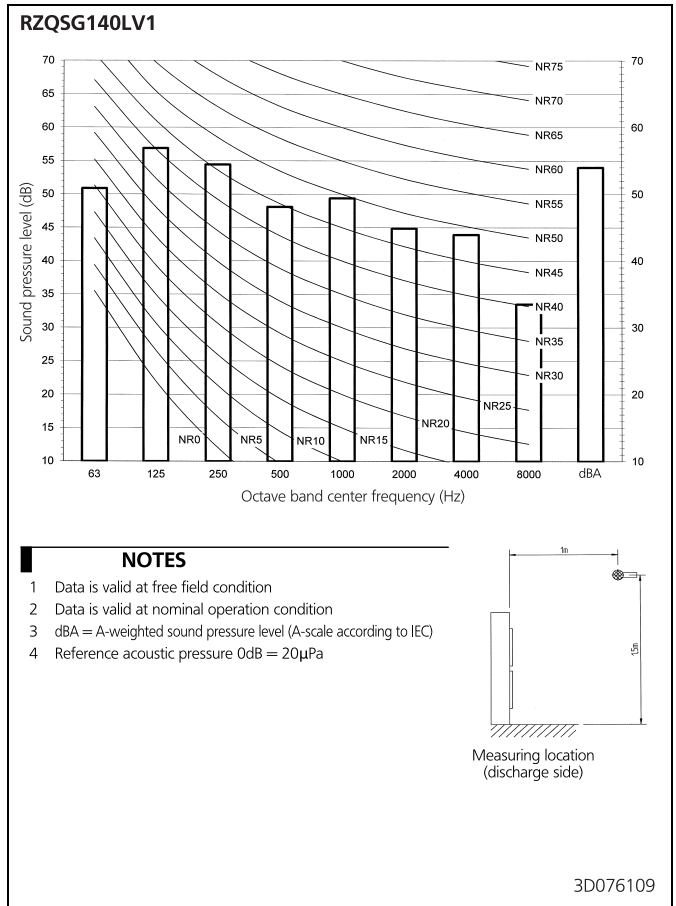
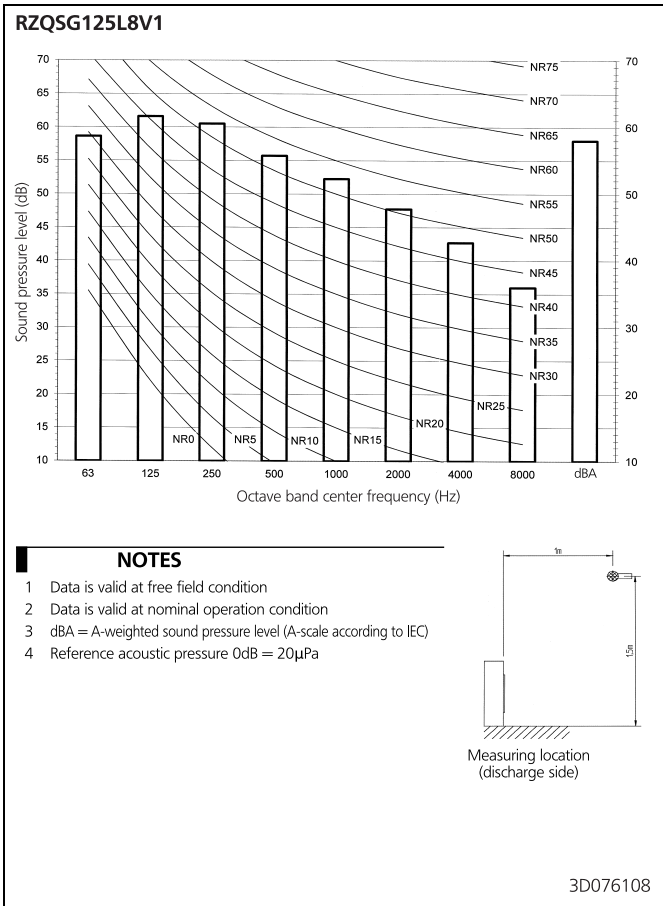
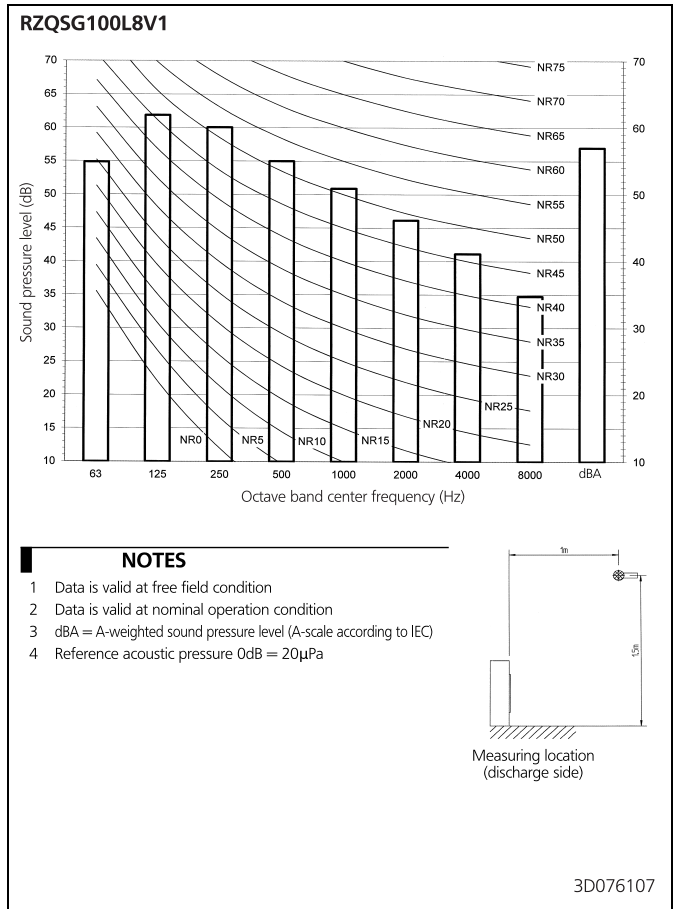
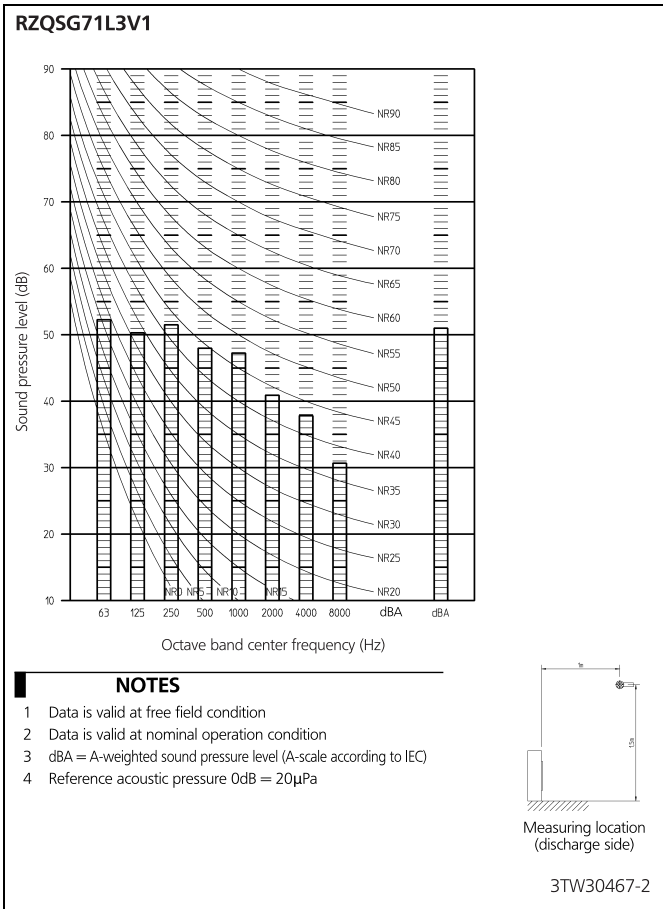
11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling



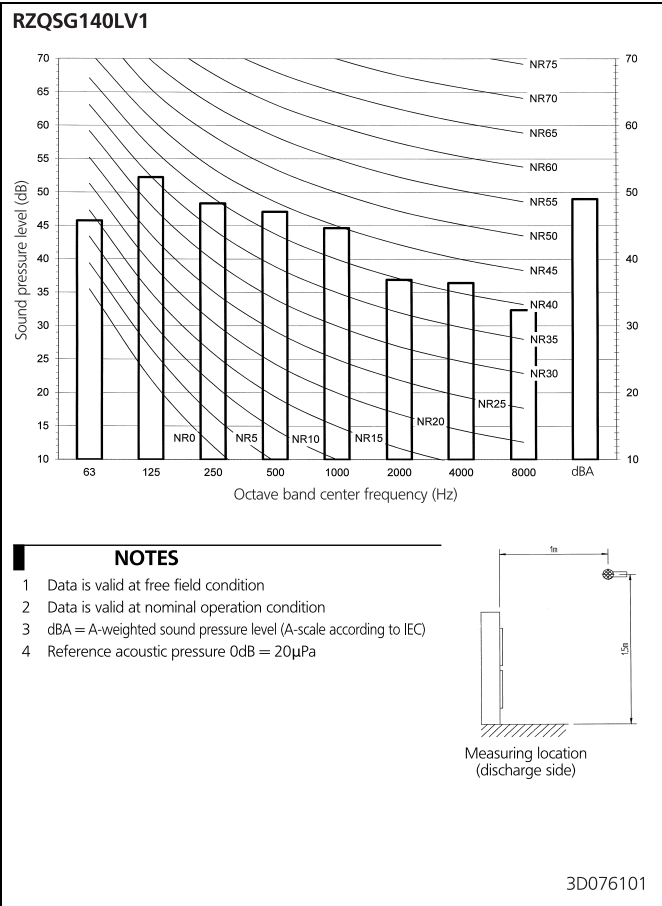
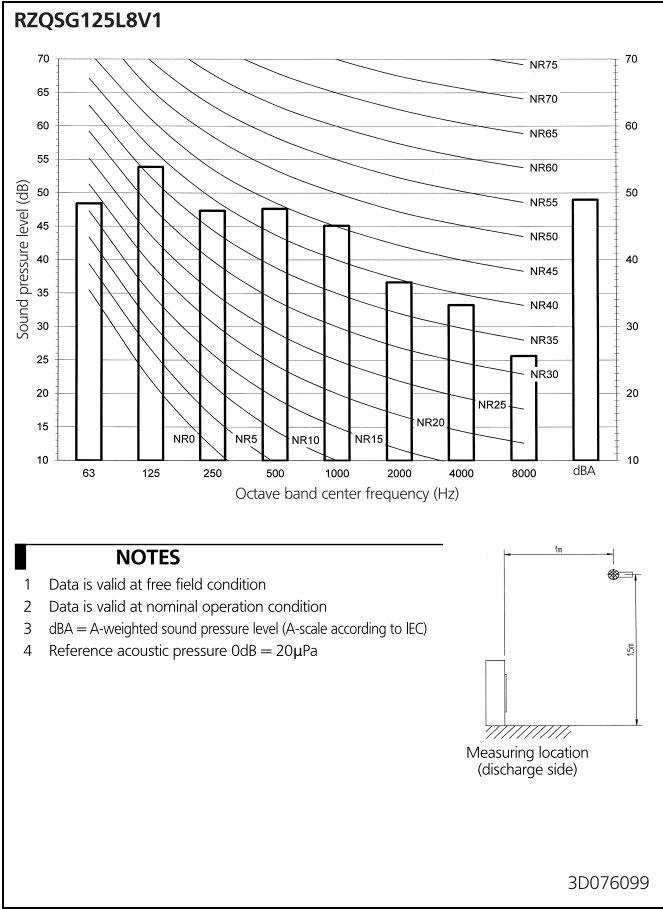
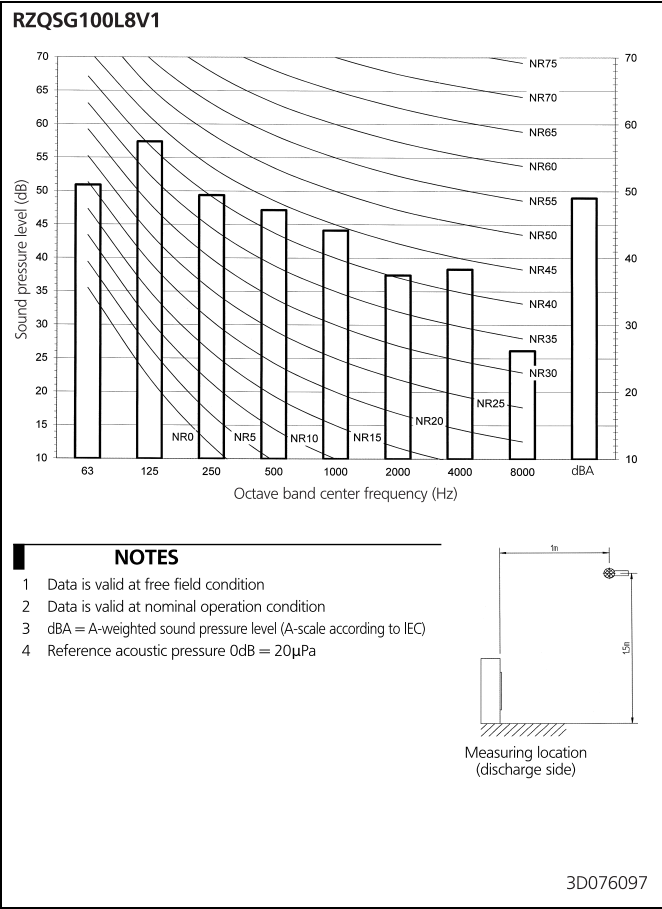
11 Sound data

11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



12 Installation

12 - 1 Installation Method

12

RZQSG71L3V1

A. Non stacked installation

Legend Unit: mm

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

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

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

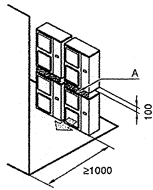
2 In these cases, only 2 units can be installed.

⊗ This situation is not allowed.

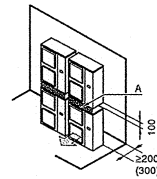
Figures between () indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



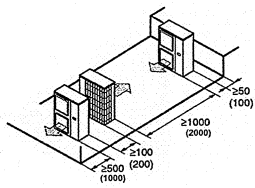
2. Obstacles exist in front of the air inlet



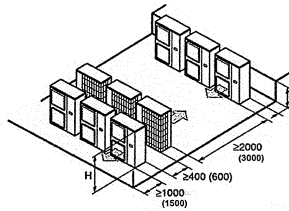
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



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



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

	L	A
L ≤ 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

RZQSG100-140L(8)V1

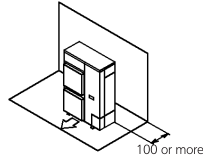
Installation service space

The measure of these values is "mm".

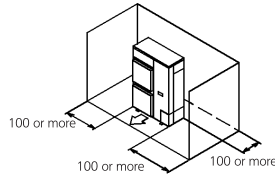
(A) When there are obstacles on suction sides.

• No obstacle above

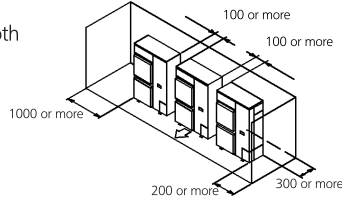
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

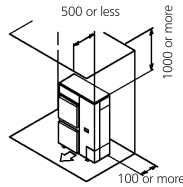


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

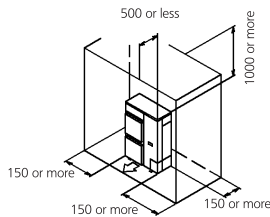


• Obstacle above, too.

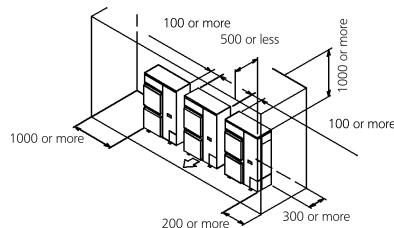
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



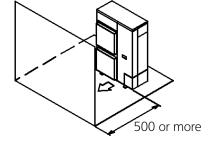
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



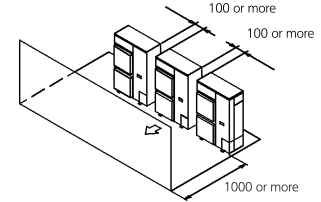
(B) When there are obstacles on discharge sides.

• No obstacle above

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

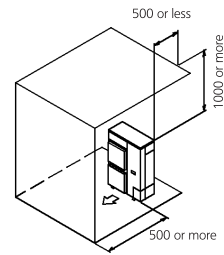


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

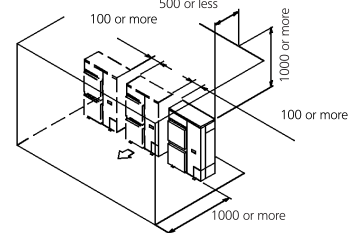


• Obstacle above, too

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



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



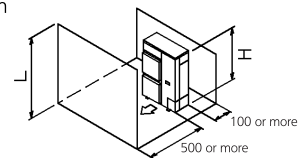
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

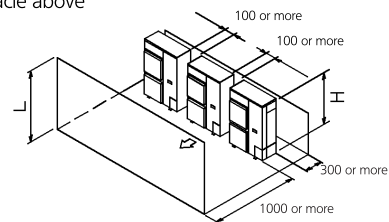
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



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12 Installation

12 - 1 Installation Method

12

RZQSG100-140L(8)V1

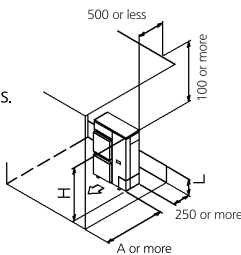
• Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



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

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

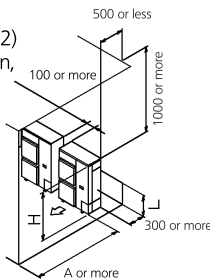
The relations between H, A and L are as follows.

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

Limit of series installation is 2 units.

Pattern 2

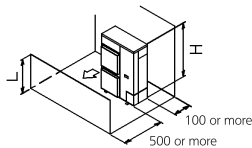
When the obstacle on the discharge side is lower than the unit ($L \leq H$) (There is no limit for the height of obstructions on the suction side.)



• No obstacle above

① Stand-alone installation

- No obstacle above

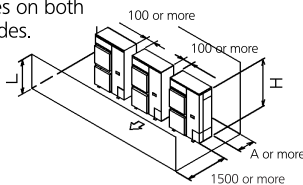


② Series installation (2 or more) (Note 1, 2)

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

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

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



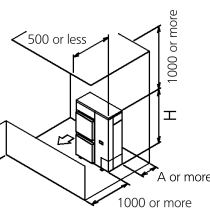
• Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



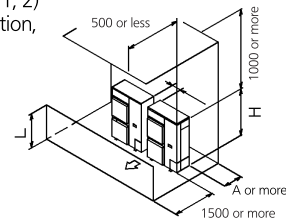
② Series installation (2 or more) (Note 1, 2)

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

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

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

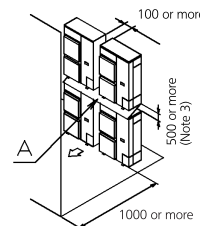
Limit of series installation is 2 units.



(D) Double-decker installation

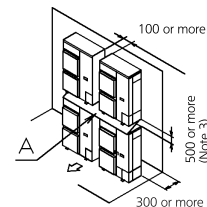
① Obstacle on the discharge side. (Note 1)

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



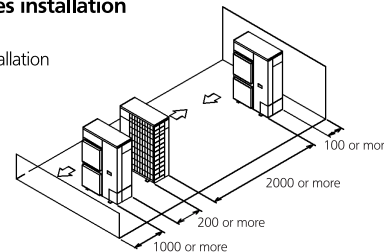
② Obstacle on the suction side. (Note 1)

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



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

① One row of stand-alone installation

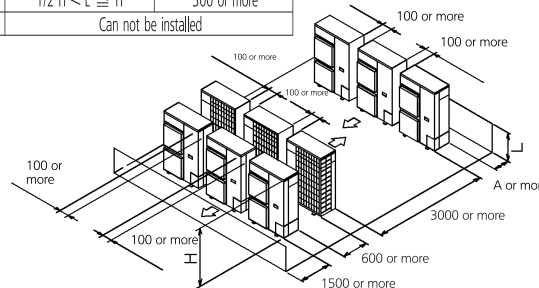


② Rows of series installation

(2 or more)

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

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



NOTES

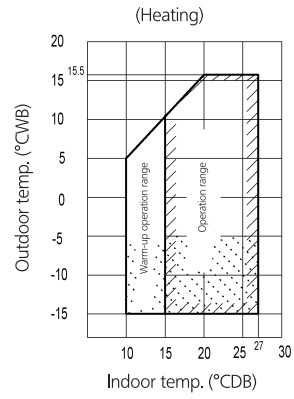
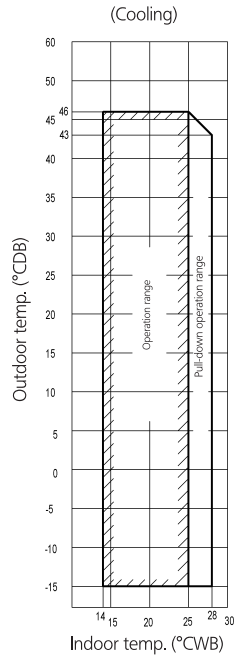
- 1 In case of the sideways piping, make a 100mm gap between the unit above.
- 2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- 3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space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

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
13 Operation range

13 - 1 Operation Range

RZQSG-L(3/8)V1



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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