



Air Conditioning Technical Data



EEDEN14-100

RZQG-L(8)Y1

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RZQG-L(8)Y1

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1 Features

- Seasonal smart 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
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits computer room applications (EDP)
- Re-use of existing R-22 or R-407C technology
- Extended operation range down to -20°C in heating
- Maximum piping length up to 75m, 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/RZQG71L8Y1	FCQHG100F/ RZQG100L8Y1	FCQHG125F/ RZQG125L8Y1	FCQHG140F/ RZQG140LY1		
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	1.66	2.15	3.00	4.00	
	Heating	Nom.	kW	1.56	2.16	3.07	3.77	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			-	
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		7.00			6.61	-
		Annual energy consumption	kWh	340	475	635	-	
	Heating (Average climate)	Energy label		A+	A++		-	
		Pdesign	kW	7.60	11.30	12.66	-	
		SCOP		4.54	4.80	4.63	-	
		Annual energy consumption	kWh	2,343	3,296	3,829	-	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		4.09	4.42	4.00	3.35		
	COP		4.80	4.99	4.40	4.12		
	Annual energy consumption		kWh	830	1,075	1,500	2,000	
	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/RZQG71L8Y1	FCQG100F/ RZQG100L8Y1	FCQG125F/ RZQG125L8Y1	FCQG140F/RZQG140LY1		
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4		
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5		
Power input	Cooling	Nom.	kW	2.01	2.45	3.22	4.17	
	Heating	Nom.	kW	1.89	2.60	3.72	4.30	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			A+	
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		6.80			6.00	-
		Annual energy consumption	kWh	350	489	700	-	
	Heating (Average climate)	Energy label		A+	A++	A+	-	
		Pdesign	kW	6.33	11.30	12.66	-	
		SCOP		4.20	4.61	4.10	-	
		Annual energy consumption	kWh	2,110	3,432	4,323	-	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.39	3.87	3.73	3.21		
	COP		3.97	4.15	3.63	3.61		
	Annual energy consumption		kWh	1,005	1,225	1,610	2,085	
	Energy label	Cooling	A			-		
		Heating	A			-		

Notes

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

2-3 Nominal Capacity And Nominal Input			FDQ125C/RZQG125L8Y1				
Cooling capacity	Nom.	kW	12.0				
Heating capacity	Nom.	kW	13.5				
Power input	Cooling	Nom.	kW				3.20
	Heating	Nom.	kW				3.53

2 Specifications

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2-3 Nominal Capacity And Nominal Input			FDQ125C/RZQG125L8Y1	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+
		Pdesign	kW	12.00
		SEER		5.81
		Annual energy consumption	kWh	723
	Heating (Average climate)	Energy label		A+
		Pdesign	kW	12.71
		SCOP		4.21
		Annual energy consumption	kWh	4,227
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.75
	COP			3.83
	Annual energy consumption		kWh	1,600
	Energy label	Cooling		A
		Heating		A

Notes

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

2-4 Nominal Capacity And Nominal Input			FAQ71C/RZQG71L8Y1		FAQ100C/RZQG100L8Y1	
Cooling capacity	Nom.	kW	6.8		9.5	
Heating capacity	Nom.	kW	7.5		10.8	
Power input	Cooling	Nom.	kW	2.00		2.63
	Heating	Nom.	kW	2.03		3.00
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		
		Pdesign	kW	6.80		9.50
		SEER		6.51		6.11
		Annual energy consumption	kWh	366		544
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	6.33		10.20
		SCOP		4.02		4.01
		Annual energy consumption	kWh	2,204		3,561
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.40		3.62
	COP			3.70		3.61
	Annual energy consumption		kWh	1,000		1,315
	Energy label	Cooling		A		
		Heating		A		

Notes

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

2-5 Nominal Capacity And Nominal Input			FBQ71C8/RZQG71L8Y1	FBQ100C8/RZQG100L8Y1	FBQ125C8/RZQG125L8Y1	FBQ140C8/RZQG140L8Y1	
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	2.44	3.15	4.02
	Heating	Nom.	kW	2.05	2.57	3.53	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	A+		-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.11	5.80	5.81	-
		Annual energy consumption	kWh	390	573	723	-
	Heating (Average climate)	Energy label		A+	A++	A+	-
		Pdesign	kW	6.00	11.30	12.71	-
		SCOP		4.01	4.61	4.21	-
		Annual energy consumption	kWh	2,095	3,432	4,227	-

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2 Specifications

2-5 Nominal Capacity And Nominal Input			FBQ71C8/RZQG71L8Y1	FBQ100C8/ RZQG100L8Y1	FBQ125C8/ RZQG125L8Y1	FBQ140C8/RZQG140LY1	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.50	3.89	3.81	3.33	
	COP		3.65	4.21	3.83	3.61	
	Annual energy consumption		kWh	970	1,220	1,575	2,010
	Energy label	Cooling		A			-
Heating		A			-		

Notes

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

2-6 Nominal Capacity And Nominal Input			FVQ71C/RZQG71L8Y1	FVQ100C/RZQG100L8Y1	FVQ125C/RZQG125L8Y1	FVQ140C/RZQG140LY1		
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4		
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5		
Power input	Cooling	Nom.	kW	2.02	2.49	3.74	4.17	
	Heating	Nom.	kW	2.06	2.61	3.65	4.30	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	-	
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		6.31		5.61		-
		Annual energy consumption		kWh	377	593	749	-
	Heating (Average climate)	Energy label		A+		A	-	
		Pdesign	kW	6.33	11.30		-	
		SCOP		4.05		4.20	3.87	-
		Annual energy consumption		kWh	2,188	3,767	4,088	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.37	3.81	3.21			
	COP		3.64	4.14	3.70	3.61		
	Annual energy consumption		kWh	1,010	1,245	1,870	2,085	
	Energy label	Cooling		A			-	
Heating		A			-			

Notes

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

2-7 Nominal Capacity And Nominal Input			FHQ71C/RZQG71L8Y1	FHQ100C/RZQG100L8Y1	FHQ125C/RZQG125L8Y1	FHQ140C/RZQG140LY1		
Cooling capacity	Nom.	kW	6.8	9.5	12.0	13.4		
Heating capacity	Nom.	kW	7.5	10.8	13.5	15.5		
Power input	Cooling	Nom.	kW	1.78	2.49	3.58	4.05	
	Heating	Nom.	kW	1.82	2.60	3.48	4.27	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	-	
		Pdesign	kW	6.80	9.50	12.00	-	
		SEER		6.95		6.11		6.01
		Annual energy consumption		kWh	342	544	699	-
	Heating (Average climate)	Energy label		A+	A++	A+	-	
		Pdesign	kW	7.60	11.30	14.13	-	
		SCOP		4.32		4.61	4.23	-
		Annual energy consumption		kWh	2,463	3,432	4,677	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.82	3.81	3.35	3.31		
	COP		4.13	4.15	3.89	3.63		
	Annual energy consumption		kWh	890	1,245	1,790	2,025	
	Energy label	Cooling		A			-	
Heating		A			-			

Notes

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

2 Specifications

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2-8 Nominal Capacity And Nominal Input				FUQ71C/RZQG71L8Y1	FUQ100C/RZQG100L8Y1	FUQ125C/RZQG125L8Y1
Cooling capacity	Nom.		kW	6.8	9.5	12.0
Heating capacity	Nom.		kW	7.5	10.8	13.5
Power input	Cooling	Nom.	kW	1.68	2.46	3.54
	Heating	Nom.	kW	1.84	2.73	3.95
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+
		Pdesign	kW	6.80	9.50	12.00
		SEER		6.50	6.11	5.61
		Annual energy consumption	kWh	366	544	749
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	7.60	11.30	14.13
		SCOP		4.20	4.50	4.44
		Annual energy consumption	kWh	2,533	3,516	4,456
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			4.05	3.86	3.39
	COP			4.08	3.95	3.42
	Annual energy consumption		kWh	840	1,230	1,770
	Energy label	Cooling			A	
Heating				A	B	

Notes

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

2-9 Technical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1	
Capacity control	Method			Inverter controlled				
Casing	Colour			Ivory white				
	Material			Painted galvanized steel plate				
Dimensions	Unit	Height	mm	990	1,430			
		Width	mm	940				
		Depth	mm	320				
	Packed unit	Height	mm	1,170	1,610			
		Width	mm	1,015				
		Depth	mm	422				
Weight	Unit		kg	80	101			
	Packed unit		kg	91	114			
Heat exchanger	Fin	Type		WF fin				
		Treatment		Anti-corrosion treatment (PE)				
Compressor	Quantity			1				
	Type			Hermetically sealed swing compressor				
	Starting method			Inverter driven				
Fan	Type			Propeller fan				
	Discharge direction			Horizontal				
	Quantity			1	2			
	Air flow rate	Cooling	Nom.	m ³ /min	59	70	84	
			Super low	m ³ /min cfm	-			
		Heating	Nom.	m ³ /min	49	62		
Super low			m ³ /min cfm	-				
Fan motor	Quantity			1	2			
	Model			Brushless DC motor				
	Output			94 W				
	Drive			Direct drive				
	Speed	Cooling	Super low	rpm	-			
Heating			Super low	rpm	-			

2 Specifications

2-9 Technical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Sound power level	Cooling		dBA	64	66	67	69
	Heating		dBA	-			
Sound pressure level	Cooling	Nom.	dBA	48	50	51	52
	Heating	Nom.	dBA	50	52	53	
	Night quiet mode	Level 1	dBA	43	45		
Operation range	Cooling	Ambient	Min.	°CDB -15			
			Max.	°CDB 50			
	Heating	Ambient	Min.	°CWB -20			
			Max.	°CWB 15.5			
Refrigerant	Type			R-410A			
	Charge		kg	2.9	4.0		
	Control			Expansion valve (electronic type)			
	GWP			1,975			
	Circuits	Quantity		1			
Refrigerant oil	Type			FVC50K			
	Charged volume		l	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		5			
		Type		Hole			
		ID	mm	-			
		OD	mm	26			
	Piping length	OU - IU	Min.	m 5			
			Max.	m 50		m 75	
		System	Equivalent	m 70		m 90	
			Chargeless	m 30			
	Additional refrigerant charge			kg/m See installation manual			
Level difference	IU - OU	Max.	m 30.0				
	IU - IU	Max.	m 0.5				
Heat insulation			Both liquid and gas pipes				
Defrost method			Reversed cycle				
Defrost control			Sensor for outdoor heat exchanger temperature				
Safety devices	Item	01	High pressure switch				
		02	Fan driver overload protector				
		03	Fuse				

2-10 Electrical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Power supply	Name			Y1			
	Phase			3N-			
	Frequency		Hz	50			
	Voltage		V	380-415			
	Voltage range	Min.	%	10			
		Max.	%	10			
Current	Zmax	List	Complies to EN61000-3-11				
	Recommended fuses		A	16	20	25	
Current - 50Hz	Maximum fuse amps (MFA)		A	16	20	25	
Current - 60Hz	Maximum fuse amps (MFA)		A	-			
Wiring connections	For power supply	Remark		See installation manual outdoor unit			
	For connection with indoor	Remark		See installation manual outdoor unit			
Power supply intake			Outdoor unit only				

2 Specifications

Notes

- (1) PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC
- (2) 3 with re-charging
- (3) See separate drawing for electrical data

3 Electrical data

3 - 1 Electrical Data

RZQG71L8Y1

Indoor	Outdoor	Phase - Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM		
							MSC	RLA	kW	FLA	kW	FLA	
FCQG71EVEB	RZQG71L8Y1	3N - 50Hz 380-415V	Min. 342V Max. 456V	11,5	—	16	—	9,6	0,094	0,4	0,048	0,4	
FCQH71FVEB				11,6	—	16	—	9,6	0,094	0,4	0,091	0,5	
FCQG35FVEB				x2	11,8	—	16	—	9,6	0,094	0,4	0,044x2	0,3x2
FCQG71FVEB				11,5	—	16	—	9,6	0,094	0,4	0,054	0,4	
FFQ35B9V1B				x2	12,0	—	16	—	9,6	0,094	0,4	0,055x2	0,4x2
FBQ35C8VEB				x2	14,0	—	16	—	9,6	0,094	0,4	0,140x2	1,2x2
FBQ71C8VEB				12,4	—	16	—	9,6	0,094	0,4	0,350	1,1	
FHQ35BWW1B				x2	12,5	—	16	—	9,6	0,094	0,4	0,062x2	0,6x2
FHQG71CVEB				12,0	—	16	—	9,6	0,094	0,4	0,091	0,8	
FUQ71BWW1B				11,8	—	16	—	9,6	0,094	0,4	0,180	0,6	
FAQ71CVEB				11,5	—	16	—	9,6	0,094	0,4	0,048	0,4	
FVQ71CVEB				11,8	—	16	—	9,6	0,094	0,4	0,117	0,6	
FHQ35CAVEB				x2	12,5	—	16	—	9,6	0,094	0,4	0,060x2	0,6 x 2
FHQ71CAVEB				12,0	—	16	—	9,6	0,094	0,4	0,091	0,8	
FUQ71CVEB				12,1	—	16	—	9,6	0,094	0,4	0,046	0,9	

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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RZQG100L8Y1

Indoor	Outdoor	Phase - Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM		
							MSC	RLA	kW	FLA	kW	FLA	
FCQG100EVEB	RZQG100L8Y1	3N - 50Hz 380-415V	Min. 342V Max. 456V	17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,0	
FCQHG100FVEB				18,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,221	1,3	
FCQG35FVEB				x3	17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044x3	0.3x3
FCQG50FVEB				x2	17,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039x2	0.3x2
FCQG100FVEB					17,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,117	0,7
FFQ35B9V1B				x3	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x3	0.4x3
FFQ50B9V1B				x2	18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x2	0.7x2
FBQ35C8VEB				x3	21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140x3	1.2x3
FBQ50C8VEB				x2	19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.140x2	1.2x2
FBQ100C8VEB					18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	1,6
FHQ35BWV1B				x3	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x3	0.6x3
FHQ50BWV1B				x2	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x2	0.6x2
FHQG100CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,2
FUQ100BWW1B					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,289	1,0
FAQ100CVEB					17,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,064	0,4
FVQ100CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CAVEB				x3	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ50CAVEB				x2	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 2	0,6 x 2
FHQ100CAVEB					18,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,3
FUQ100CVEB					18,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	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

RZQG100-125L8Y1

Unit combination		Minimum Ssc value [kVA]
FFQ35B9V1B	x3	936
FFQ50B9V1B	x2	951
FHQ35BWW1B	x3	977
FHQ50BWW1B	x2	936
FBQ35C8VEB	x3	1092
FBQ50C8VEB	x2	1014
FCQG35FVEB	x3	915
FCQG50FVEB	x2	899
FBQ100C8VEB	x1	962
FCQG100FVEB	x1	905
FCQHG100FVEB	x1	941
FAQ100CVEB	x1	884
FVQ100CVEB	x1	936
FHQG100CVEB	x1	936
FUQ100BWW1B	x1	925
FFQ35B9V1B	x4	962
FFQ50B9V1B	x3	993
FFQ60B9V1B	x2	951
FHQ35BWW1B	x4	1014
FHQ50BWW1B	x3	977
FHQ60BWW1B	x2	936
FBQ35C8VEB	x4	1170
FBQ50C8VEB	x3	1092
FBQ60C8VEB	x2	1003
FCQG35FVEB	x4	936
FCQG50FVEB	x3	915
FCQG60FVEB	x2	899
FBQ125C8VEB	x1	993
FCQG125FVEB	x1	925
FCQHG125FVEB	x1	951
FVQ125CVEB	x1	936
FHQG125CVEB	x1	962
FUQ125BWW1B	x1	925
FDQ125C7VEB	x1	993

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NOTES

- In accordance with EN/IEC 61000-3-12⁽¹⁾, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc}^{(2)} \geq$ 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

3 Electrical data

3 - 1 Electrical Data

RZQG125-140L(8)Y1

Indoor	Outdoor	Phase - Hz - Power supply	Voltage range	MCA		TOCA		MFA		Comp		OFM		IFM				
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA						
FCQG125EVEB	RZQG125L8Y1	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1						
FCQH125FVEB				18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4						
FCQG35FVEB				x4	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044x4	0.3x4					
FCQG50FVEB				x3	17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039x3	0.3x3					
FCQG60FVEB				x2	18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044x2	0.3x2					
FCQG125FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0					
FFQ35B9V1B				x4	18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x4	0.4x4					
FFQ50B9V1B				x3	19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x3	0.7x3					
FFQ60B9V1B				x2	18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x2	0.7x2					
FBQ35C8VEB				x4	22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140x4	1.2x4					
FBQ50C8VEB				x3	21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140x3	1.2x3					
FBQ60C8VEB				x2	19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350x2	1.1x2					
FBQ125C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1					
FHQ35BWV1B				x4	19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x4	0.6x4					
FHQ50BWV1B				x3	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x3	0.6x3					
FHQ60BWV1B				x2	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x2	0.6x2					
FHQG125CVEB					18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,6					
FUQ125BWW1B					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,289	1,0					
FDQ125C7VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1					
FVQ125CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,238	1,2					
FHQ35CAVEB				x4	19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 4	0,6 x 4					
FHQ50CAVEB				x3	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3					
FHQ60CAVEB				x2	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091 x 2	0,6 x 2					
FHQ125CAVEB					18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,5					
FUQ125CVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,4					
FCQG71EVEB				x2	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048x2	0.4x2					
FCQG140EVEB					17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1					
FCQH71FVEB				x2	17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091x2	0.5x2					
FCQH140FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4					
FCQG35FVEB				x4	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044x4	0.3x4					
FCQG50FVEB				x3	17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039x3	0.3x3					
FCQG71FVEB				x2	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.054x2	0.4x2					
FCQG140FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0					
FFQ35B9V1B	x4	18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x4	0.4x4								
FFQ50B9V1B	x3	19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x3	0.7x3								
FFQ60B9V1B	x2	18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055x2	0.7x2								
FBQ35C8VEB	x4	22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140x4	1.2x4								
FBQ50C8VEB	x3	21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140x3	1.2x3								
FBQ71C8VEB	x2	19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350x2	1.1x2								
FBQ140C8VEB		19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1								
FHQ35BWW1B	x4	19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x4	0.6x4								
FHQ50BWW1B	x3	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062x3	0.6x3								
FHQG71CVEB	x2	18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091x2	0.8x2								
FHQG140CVEB		18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8								
FUQ71BWW1B	x2	18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.180x2	0.6x2								
FAQ71CVEB	x2	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048x2	0.4x2								
FVQ140CVEB		18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,276	1,4								
FHQ35CAVEB	x4	19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 4	0,6 x 4								
FHQ50CAVEB	x3	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3								
FHQ71CAVEB	x2	18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091 x 2	0,8 x 2								
FHQ140CAVEB		18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8								
FUQ71CVEB	x2	18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,046 x 2	0,9 x 2								

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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4 Options

4 - 1 Options

RZQG-L(8)Y1

Available options for RZQG models:

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

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NOTES

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

5 Combination table

5 - 1 Combination Table

5

RZQG-L(8)Y1

Multi Combination Possibilities:

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

(*) Max capacity depend on outdoor unit

SKY-AIR	H cassette				Thin cassette				2½ cassette		Duct (medium ESP)				Ceiling suspended				Away ceiling		Wall mounted		High ESP duct		Floor standing									
Model name	FCQHG7FVEB	FCQHG10FVEB	FCQHG12FVEB	FCQHG14FVEB	FCQSG9FVEB	FCQSG6FVEB	FCQSG11FVEB	FCQSG10FVEB	FCQSG12FVEB	FCQSG14FVEB	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B			
RZQG71L8Y1	P				2																													
RZQG100L8Y1		P			3	2																												
RZQG125L8Y1			P		4	3	2																											
RZQG140L8Y1	2			P	4	3		2																										

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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 orKHRQ58T
 Triple: KHRQ127H orKHRQ58H
 Double twin: KHRQ22M20TA orKHRQ58T

RZQG-L(8)Y1

EDP room combination table

SKY-AIR	H cassette				Thin cassette				2½ cassette		Duct (medium ESP)				Ceiling suspended				Away ceiling		Wall mounted		High ESP duct		Floor standing										
Model name	FCQHG7FVEB	FCQHG10FVEB	FCQHG12FVEB	FCQHG14FVEB	FCQSG9FVEB	FCQSG6FVEB	FCQSG11FVEB	FCQSG10FVEB	FCQSG12FVEB	FCQSG14FVEB	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B	FCQSB8FV1B			
RZQG71L8Y1		P			3	2																													
RZQG100L8Y1	2				4	3																													
RZQG125L8Y1	2		P		4	3		2																											
RZQG140L8Y1				P	4	3																													

Multi Combination Possibilities: P = Pair
 2 = Twin
 3 = Triple
 4 = Double twin

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NOTES

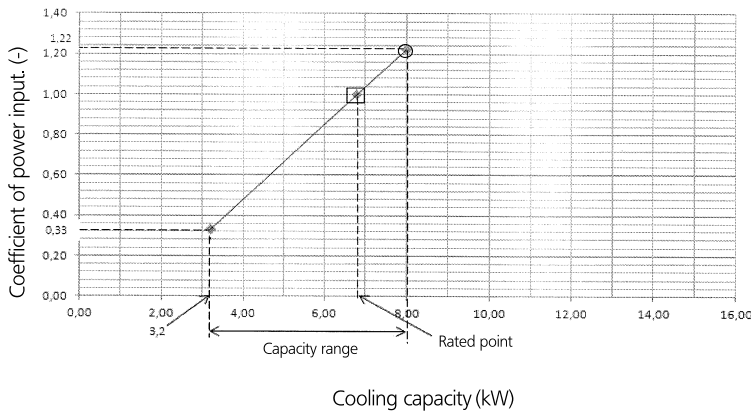
- Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
- When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.
- See the option list for the selection of the refnet kits that are necessary to install the combinations:
 Twin: KHRQ22M20TA orKHRQ58T
 Triple: KHRQ127H orKHRQ58H
 Double twin: KHRQ22M20TA orKHRQ58T

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG71L8Y1

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	8.03	5.45	1.00	7.76	5.32	1.11	7.48	5.20	1.21	7.21	5.06	1.32
18.0	25	8.40	5.45	1.00	8.11	5.32	1.11	7.83	5.19	1.22	7.54	5.05	1.33
19.0	27	8.59	5.44	1.01	8.30	5.32	1.12	8.00	5.18	1.22	7.70	5.05	1.33
19.5	27	8.68	5.43	1.01	8.39	5.31	1.12	8.09	5.17	1.22	7.79	5.05	1.33
22.0	30	9.15	5.38	1.01	8.84	5.25	1.12	8.52	5.13	1.23	8.21	4.99	1.34
24.0	32	9.53	5.31	1.03	9.20	5.19	1.13	8.87	5.06	1.25	8.54	4.92	1.35

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)

	FCQG71F	FCQG71F	FBQ71C	FHQG71C	FUQ71BW	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
AFR (BF)	21.2 (0.2)	21.5 (0.14)	18.0 (0.08)	20.5 (0.13)	19.0 (0.07)	18.0 (0.16)	18.0 (0.16)	20.5 (0.13)	23.0 (0.24)

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BwX2	FHQ35CAx2
AFR (BF)	12.5x2 (0.4x2)	10x2 (0.25x2)	16x2 (0.15x2)	13x2 (0.20x2)	14x2 (0.17x2)

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

(Pair)

	FCQG71F	FCQG71F	FBQ71C	FHQG71C	FUQ71BW	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
Cooling	1.66	2.01	1.94	1.78	1.68	2.00	2.02	1.78	1.67

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BwX2	FHQ35CAx2
Cooling	2.04	2.14	1.98	2.38	2.34

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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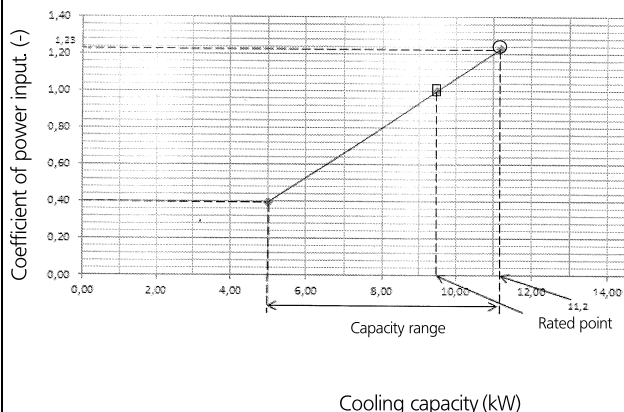
6 Capacity tables

6 - 1 Cooling Capacity Tables

6

RZQG100L8Y1

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)

	FCQH100F	FCQG100F	FBQ100C	FHQG100C	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
AFR	32.3	32.0	32.0	20.0	29.0	26.0	28.0	28.0	31.0
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.07)	(0.10)	(0.20)	(0.09)	(0.20)

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B11x3	FHQ35CAx3
AFR	12.5x3	10x3	16x3	13x3	14x3
(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	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
Cooling	2.15	2.45	2.44	2.49	2.46	2.63	2.49	2.49	2.33

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B11x3	FHQ35CAx3
Cooling	2.38	2.44	2.51	2.97	2.91

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	12x2	16x2	13x2	15x2
(BF)	(0.22x2)	(0.16x2)	(0.16x2)	(0.10x2)	(0.18x2)

(Twin)

	FCQ50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50B11x2	FHQ50CAx2
Cooling	2.32	2.44	2.51	2.97	2.93

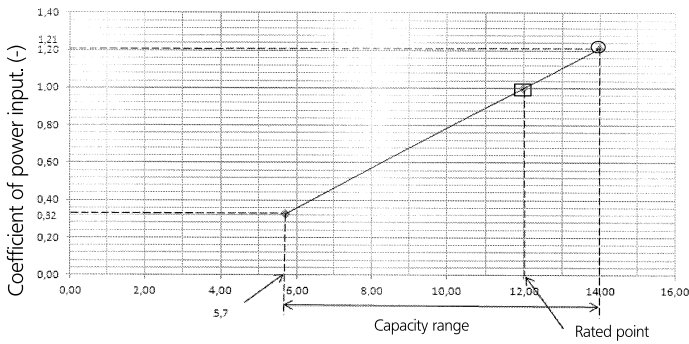
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6 Capacity tables

6 - 1 Cooling Capacity Tables

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Cooling



Cooling capacity (kW)

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	1.00	13.6	9.30	1.10	13.1	9.12	1.20	12.6	8.78	1.31
18.0	25	14.7	9.50	1.00	14.2	9.32	1.10	13.7	9.09	1.21	13.2	8.83	1.32
19.0	27	15.0	9.52	1.01	14.5	9.34	1.11	14.0	9.06	1.21	13.5	8.87	1.32
19.5	27	15.2	9.52	1.01	14.7	9.26	1.12	14.2	9.08	1.21	13.6	8.81	1.32
22.0	30	16.0	9.39	1.01	15.5	9.14	1.12	14.9	8.95	1.23	14.4	8.74	1.33
24.0	32	16.7	9.31	1.02	16.1	9.09	1.13	15.5	8.83	1.24	15.0	8.63	1.34

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)

	FCQH125F	FCQG125F	FBQ125C	FHQ125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
AFR	33.5	33.0	39.0	31.0	32.0	39.0	28.0	31.0	32.5
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.07)	(0.16)	(0.16)	(0.14)	(0.19)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50Bw3	FHQ50CAx3
AFR	12.6x3	12x3	16x3	13x3	15x3
(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	FHQ125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
Cooling	3.00	3.22	3.15	3.58	3.54	3.20	3.74	3.58	3.44

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50Bw3	FHQ50CAx3
Cooling	3.17	3.41	3.28	3.72	3.66

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	FHQ60Bw2	FHQ60CAx2
AFR	13.6x2	15x2	18x2	17x2	19.5x2
(BF)	(0.2x2)	(0.11x2)	(0.15x2)	(0.20x2)	(0.20x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35Bw4	FHQ35CAx4
AFR	12.5x4	10x4	16x4	13x4	14x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)	(0.17x4)

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60Bw2	FHQ60CAx2
Cooling	3.14	3.41	3.28	3.72	3.67

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35Bw4	FHQ35CAx4
Cooling	3.23	3.41	3.28	3.72	3.64

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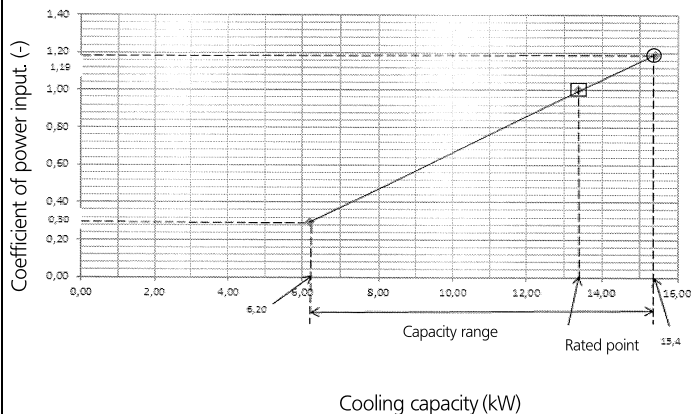
6 Capacity tables

6 - 1 Cooling Capacity Tables

6

RZQG140LY1

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)

	FCQH140F	FCQ140F	FBQ140C	FHQ140C	FVQ140C	FHQ140CA
AFR	33.5	33	39	34	30	34
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)

(Triple)

	FCQ50Fx3	FFQ50Bx3	FBQ50Cx3	FHQ50BwX3	FHQ50CAx3
AFR	12.6x3	12x3	16x3	13x3	15x3
(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
Cooling	4.00	4.17	4.02	4.05	4.17	4.05

(Triple)

	FCQ50Fx3	FFQ50Bx3	FBQ50Cx3	FHQ50BwX3	FHQ50CAx3
Cooling	4.12	4.20	3.75	4.31	4.25

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)

	FCQH71Fx2	FCQ71Fx2	FBQ71Cx2	FHQ71Cx2	FAQ71Cx2	FUQ71BwX2	FHQ71CAx2	FUQ71Cx2
AFR	21.2x2	21.5x2	18x2	20.5x2	18x2	19x2	20.5x2	23x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)	(0.07x2)	(0.13x2)	(0.24x2)

(Double twin)

	FCQ35Fx4	FFQ35Bx4	FBQ35Cx4	FHQ35BwX4	FHQ35CAx4
AFR	12.5x4	10x4	16x4	13x4	14x4
(BF)	(0.4x4)	(0.25x4)	(0.15x4)	(0.20x4)	(0.20x4)

(Twin)

	FCQH71Fx2	FCQ71Fx2	FBQ71Cx2	FHQ71Cx2	FAQ71Cx2	FUQ71BwX2	FHQ71CAx2	FUQ71Cx2
Cooling	3.94	4.11	3.75	3.59	3.81	3.49	3.59	3.35

(Double twin)

	FCQ35Fx4	FFQ35Bx4	FBQ35Cx4	FHQ35BwX4	FHQ35CAx4
Cooling	4.18	4.20	3.75	4.31	4.23

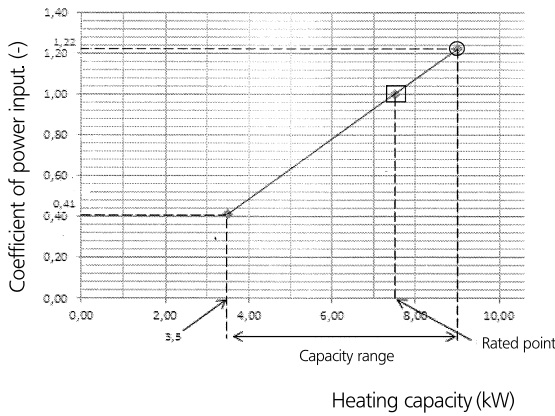
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6 Capacity tables

6 - 2 Heating Capacity Tables

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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	6.44	0.93	7.09	0.99	7.55	1.02	7.79	1.06	9.00	1.12	9.71	1.19
18	6.43	0.98	7.08	1.03	7.54	1.07	7.78	1.10	9.00	1.17	9.71	1.24
20	6.42	1.01	7.07	1.07	7.53	1.12	7.77	1.14	9.00	1.22	9.71	1.28
21	6.42	1.03	7.07	1.09	7.53	1.13	7.77	1.16	9.00	1.24	9.71	1.31
22	6.42	1.05	7.06	1.11	7.52	1.15	7.76	1.19	9.00	1.27	9.71	1.33
24	6.41	1.09	7.05	1.15	7.51	1.20	7.75	1.23	9.00	1.32	9.67	1.38

NOTES

- 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)

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FUQ71BW	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
AFR (BF)	21.2 (0.2)	21.5 (0.14)	18.0 (0.08)	20.5 (0.13)	19.0 (0.07)	18.0 (0.16)	18.0 (0.16)	20.5 (0.13)	23.0 (0.24)

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BwX2	FHQ35CAx2
AFR (BF)	12.5x2 (0.4x2)	10x2 (0.25x2)	16x2 (0.15x2)	13x2 (0.20x2)	14x2 (0.17x2)

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

(Pair)

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FUQ71BW	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
Heating	1.56	1.89	2.05	1.82	1.84	2.03	2.06	1.82	1.68

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BwX2	FHQ35CAx2
Heating	1.92	2.61	2.16	2.78	2.70

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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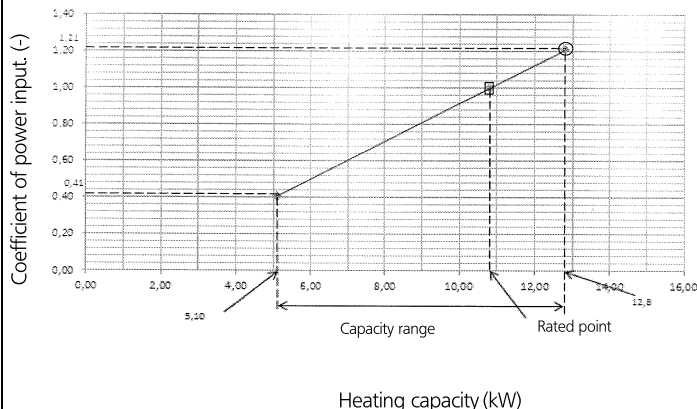
6 Capacity tables

6 - 2 Heating Capacity Tables

6

RZQG100L8Y1

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	0.92	9.45	0.98	10.1	1.02	10.4	1.05	12.8	1.11	13.8	1.18
18	8.57	0.97	9.44	1.02	10.0	1.06	10.3	1.09	12.8	1.16	13.8	1.23
20	8.56	1.00	9.43	1.06	10.0	1.11	10.3	1.13	12.8	1.21	13.8	1.27
21	8.56	1.02	9.42	1.08	10.0	1.12	10.3	1.15	12.8	1.23	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	1.32
24	8.54	1.08	9.41	1.14	10.0	1.19	10.3	1.22	12.8	1.31	13.8	1.37

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	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	20.0 (0.09)	29.0 (0.07)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	31.0 (0.20)

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B11x3	FHQ35CAx3
AFR (BF)	12.5x3 (0.4x3)	10x3 (0.25x3)	16x3 (0.15x3)	13x3 (0.20x3)	14x3 (0.17x3)

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

(Pair)

	FCQH100F	FCQG100F	FBQ100C	FHQG100C	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
Heating	2.16	2.60	2.57	2.60	2.73	3.00	2.61	2.60	2.62

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35B11x3	FHQ35CAx3
Heating	2.51	2.79	2.86	3.32	3.20

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 (BF)	12.6x2 (0.22x2)	12x2 (0.16x2)	16x2 (0.16x2)	13x2 (0.10x2)	15x2 (0.18x2)

(Twin)

	FCQ50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50B11x2	FHQ50CAx2
Heating	2.46	2.79	2.86	3.32	3.28

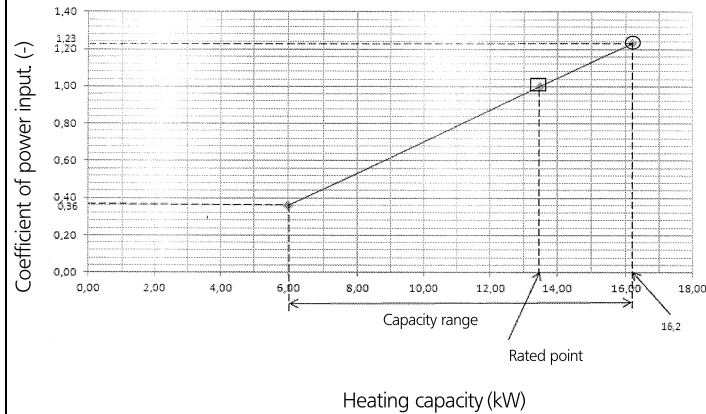
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6 Capacity tables

6 - 2 Heating Capacity Tables

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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	11.0	0.94	12.1	1.00	12.9	1.03	13.2	1.06	16.2	1.13	17.5	1.20
18	11.0	0.98	12.1	1.03	12.9	1.08	13.2	1.11	16.2	1.18	17.5	1.25
20	11.0	1.02	12.0	1.08	12.9	1.13	13.2	1.15	16.2	1.23	17.5	1.30
21	11.0	1.04	12.0	1.10	12.8	1.14	13.2	1.17	16.2	1.25	17.5	1.32
22	11.0	1.06	12.0	1.12	12.8	1.16	13.2	1.20	16.2	1.28	17.4	1.34
24	11.0	1.10	12.0	1.16	12.8	1.21	13.2	1.24	16.2	1.33	17.4	1.39

NOTES

- 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	FBQ125C	FHQG125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
AFR	33.5	33.0	39.0	31.0	32.0	39.0	28.0	31.0	32.5
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.07)	(0.16)	(0.16)	(0.14)	(0.19)

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BwX2	FHQ60Cax2
AFR	13.6x2	15x2	18x2	17x2	19.5x2
(BF)	(0.2x2)	(0.11x2)	(0.15x2)	(0.20x2)	(0.20x2)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BwX3	FHQ50Cax3
AFR	12.6x3	12x3	16x3	13x3	15x3
(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)

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
Heating	3.07	3.72	3.53	3.48	3.95	3.53	3.65	3.48	3.86

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BwX2	FHQ60Cax2
Heating	3.64	3.83	3.74	4.16	4.11

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BwX3	FHQ50Cax3
Heating	3.66	3.83	3.74	4.16	4.10

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BwX4	FHQ35Cax4
Heating	3.72	3.83	3.74	4.16	4.00

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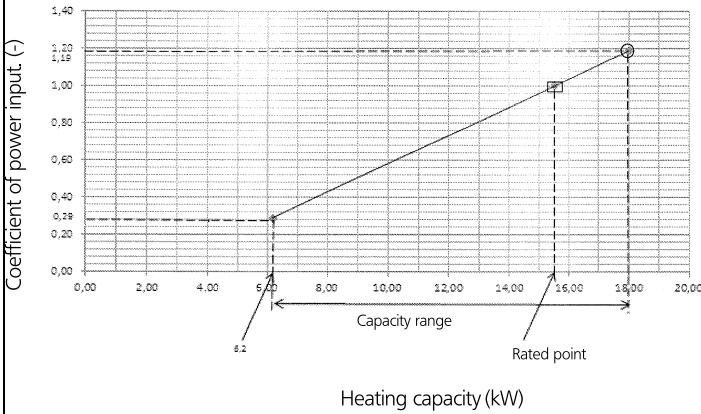
6 Capacity tables

6 - 2 Heating Capacity Tables

6

RZQG140LY1

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

- 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	41	34	30	34
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)

(Triple)

	FCQG50F×3	FFQ50B9×3	FBQ50C×3	FHQ50B1W×3	FHQ50CA×3
AFR	12.6×3	12×3	16×3	13×3	15×3
(BF)	(0.22×3)	(0.16×3)	(0.16×3)	(0.10×3)	(0.18×3)

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

(Pair)

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA
Heating	3.77	4.30	4.30	4.27	4.30	4.27

(Triple)

	FCQG50F×3	FFQ50B9×3	FBQ50C×3	FHQ50B1W×3	FHQ50CA×3
Heating	4.24	4.92	4.70	5.49	5.43

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)

	FCQHG71F×2	FCQG71F×2	FBQ71C×2	FHQG71C×2	FAQ71C×2	FUQ71B1W×2	FHQ71CA×2	FUQ71C×2
AFR	21.2×2	21.5×2	18×2	20.5×2	18×2	19×2	20.5×2	23×2
(BF)	(0.2×2)	(0.14×2)	(0.08×2)	(0.13×2)	(0.16×2)	(0.07×2)	(0.13×2)	(0.24×2)

(Double twin)

	FCQG35F×4	FFQ35B9×4	FBQ35C×4	FHQ35B1W×4	FHQ35CA×4
AFR	12.5×4	10×4	16×4	13×4	14×4
(BF)	(0.4×4)	(0.25×4)	(0.15×4)	(0.20×4)	(0.20×4)

(Twin)

	FCQHG71F×2	FCQG71F×2	FBQ71C×2	FHQG71C×2	FAQ71C×2	FUQ71B1W×2	FHQ71CA×2	FUQ71C×2
Heating	3.71	4.24	4.70	4.47	4.68	4.47	4.47	4.36

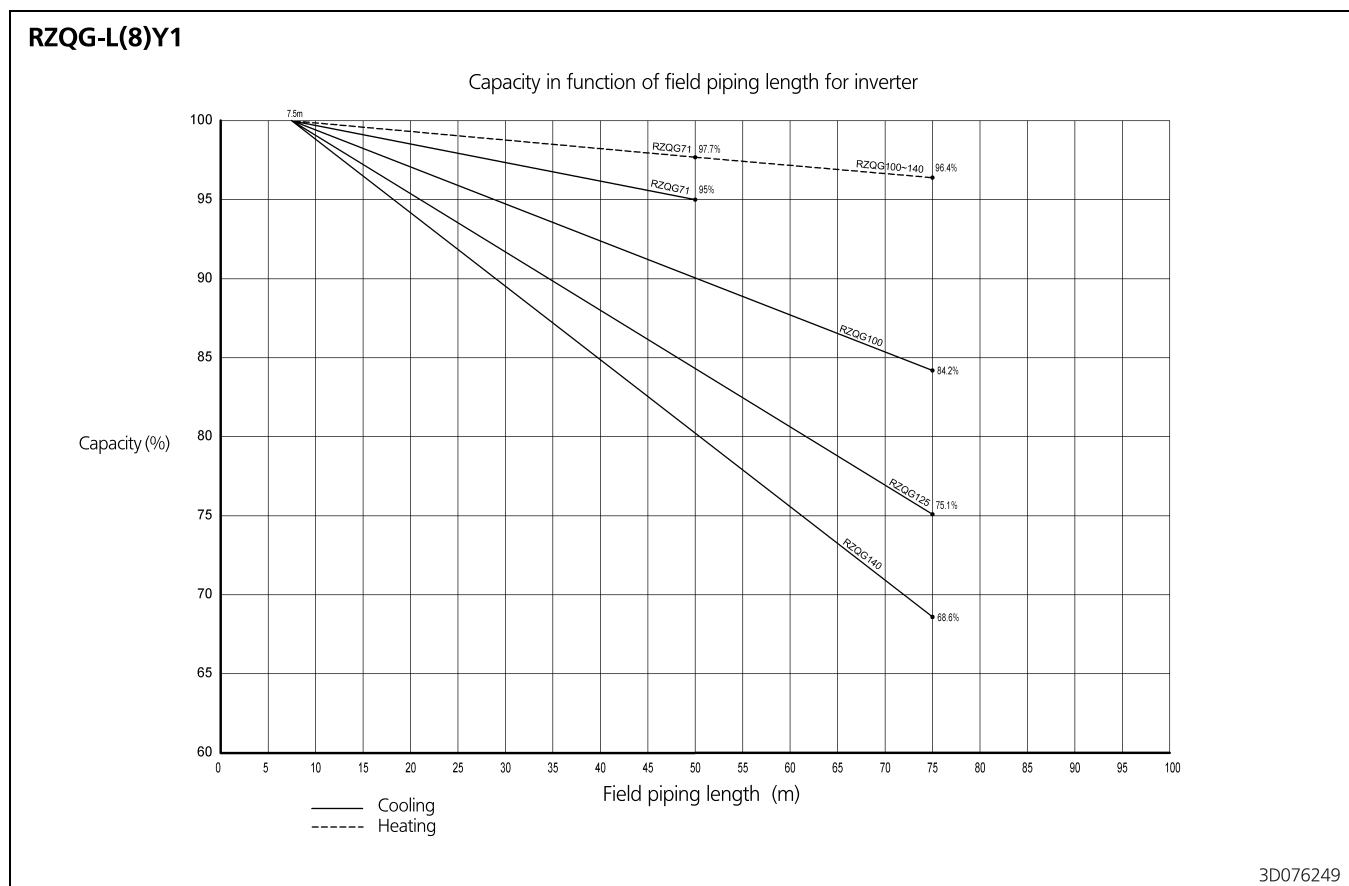
(Double twin)

	FCQG35F×4	FFQ35B9×4	FBQ35C×4	FHQ35B1W×4	FHQ35CA×4
Heating	4.30	4.92	4.70	5.49	5.33

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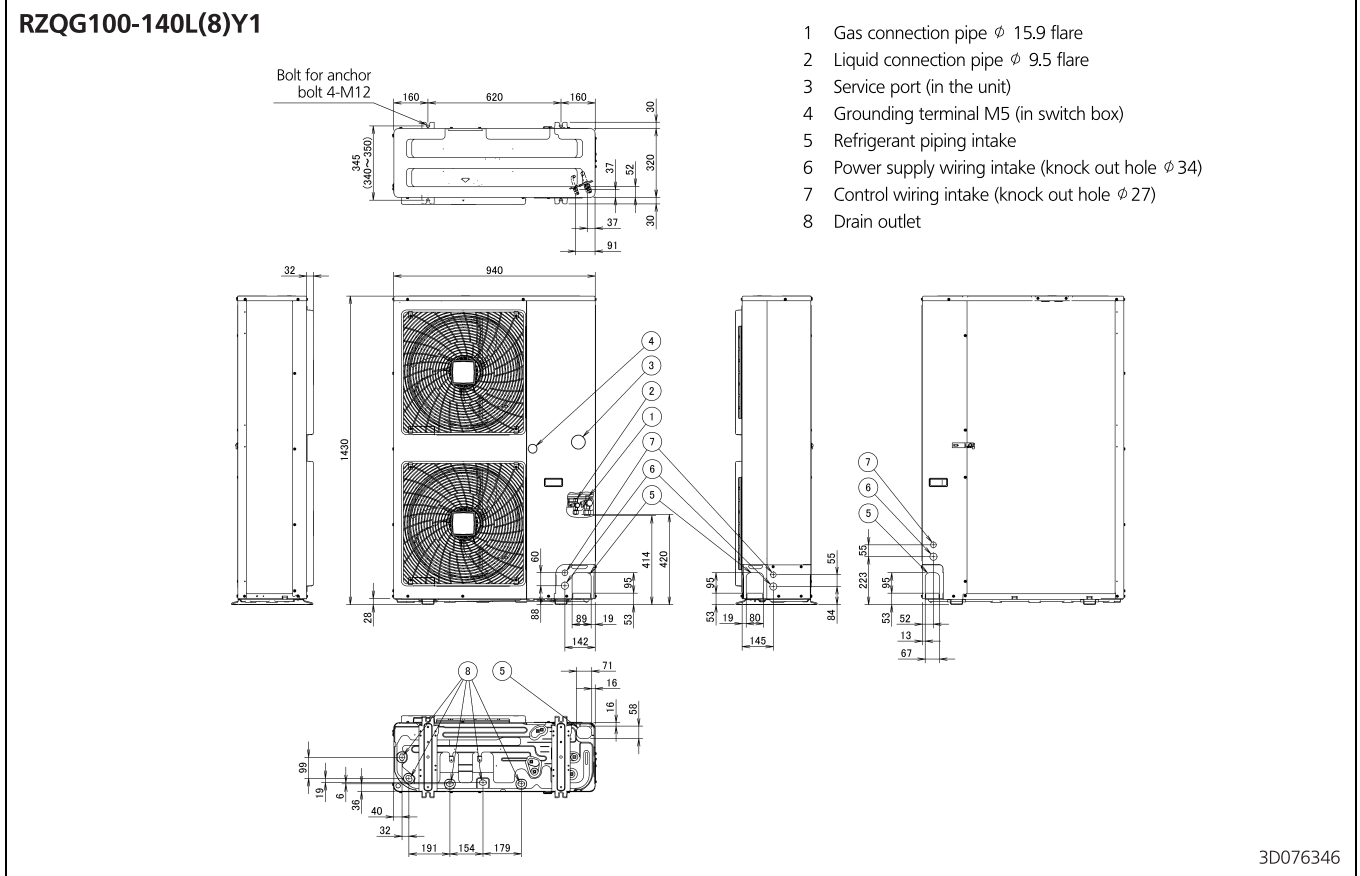
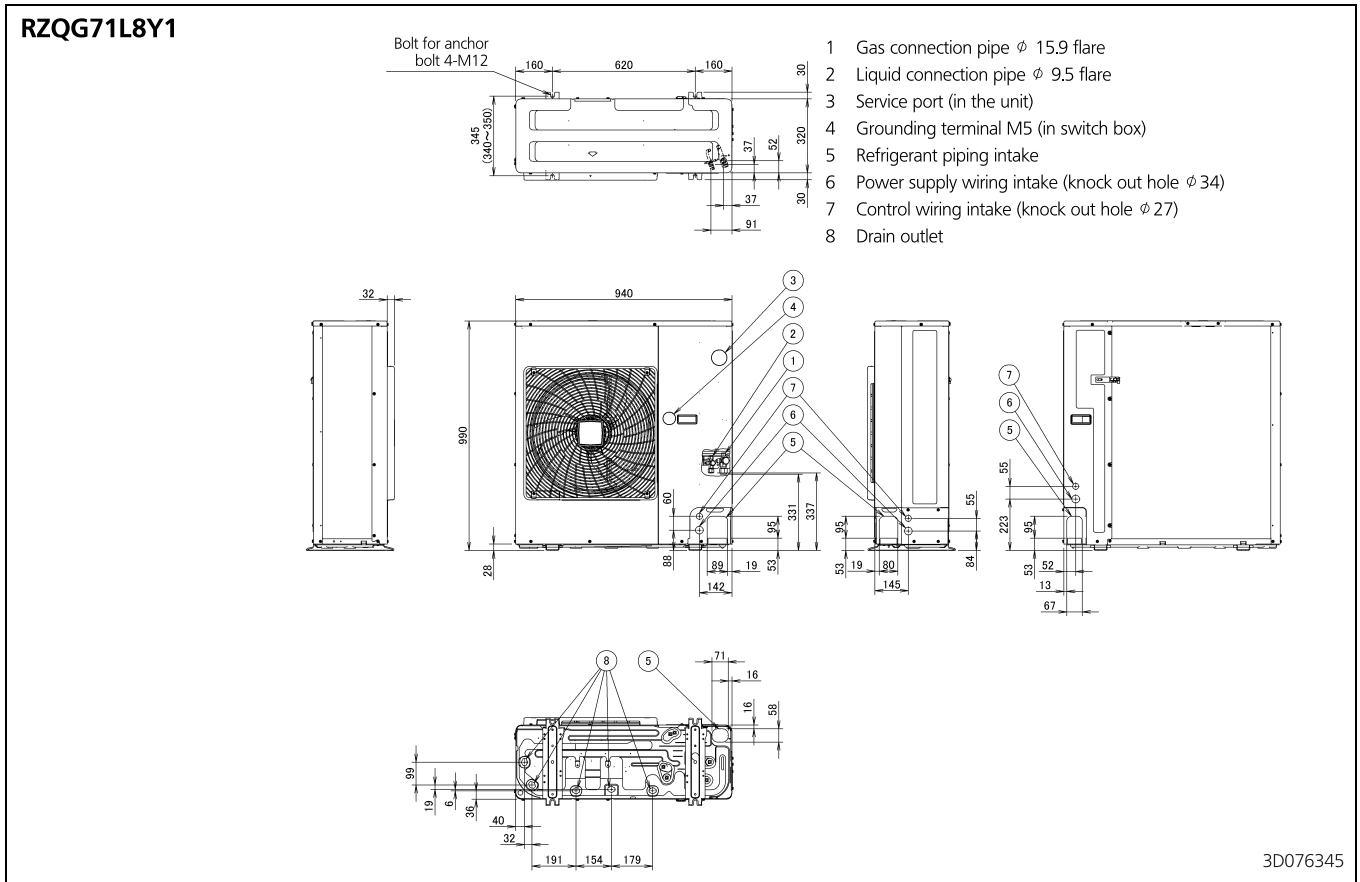
6 Capacity tables

6 - 3 Capacity Correction Factor



7 Dimensional drawings

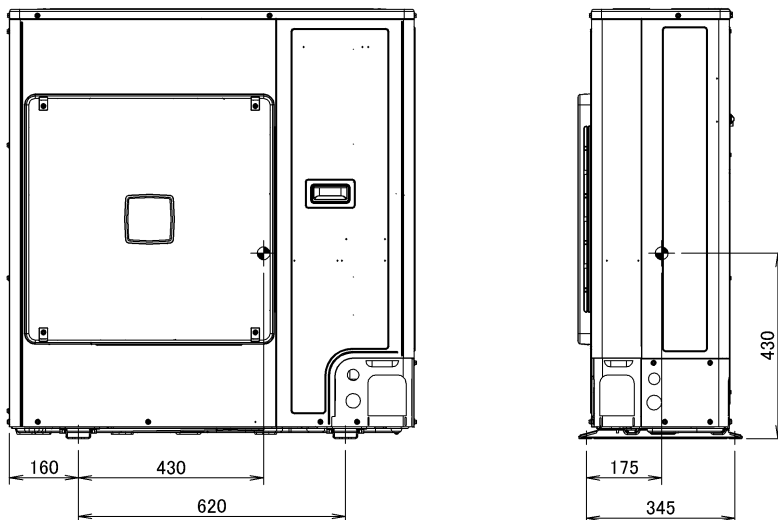
7 - 1 Dimensional Drawings



8 Centre of gravity

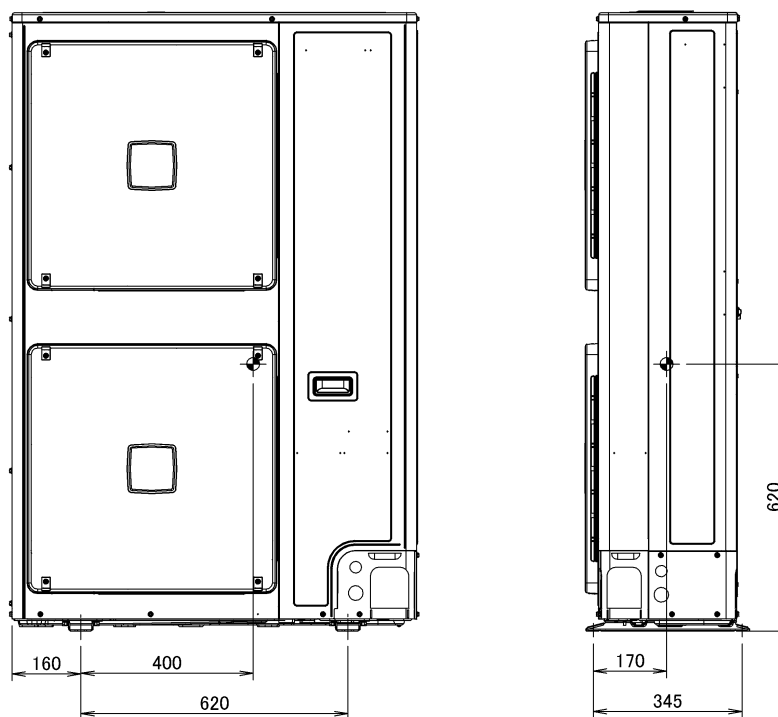
8 - 1 Centre of Gravity

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RZQG100-140L(8)Y1

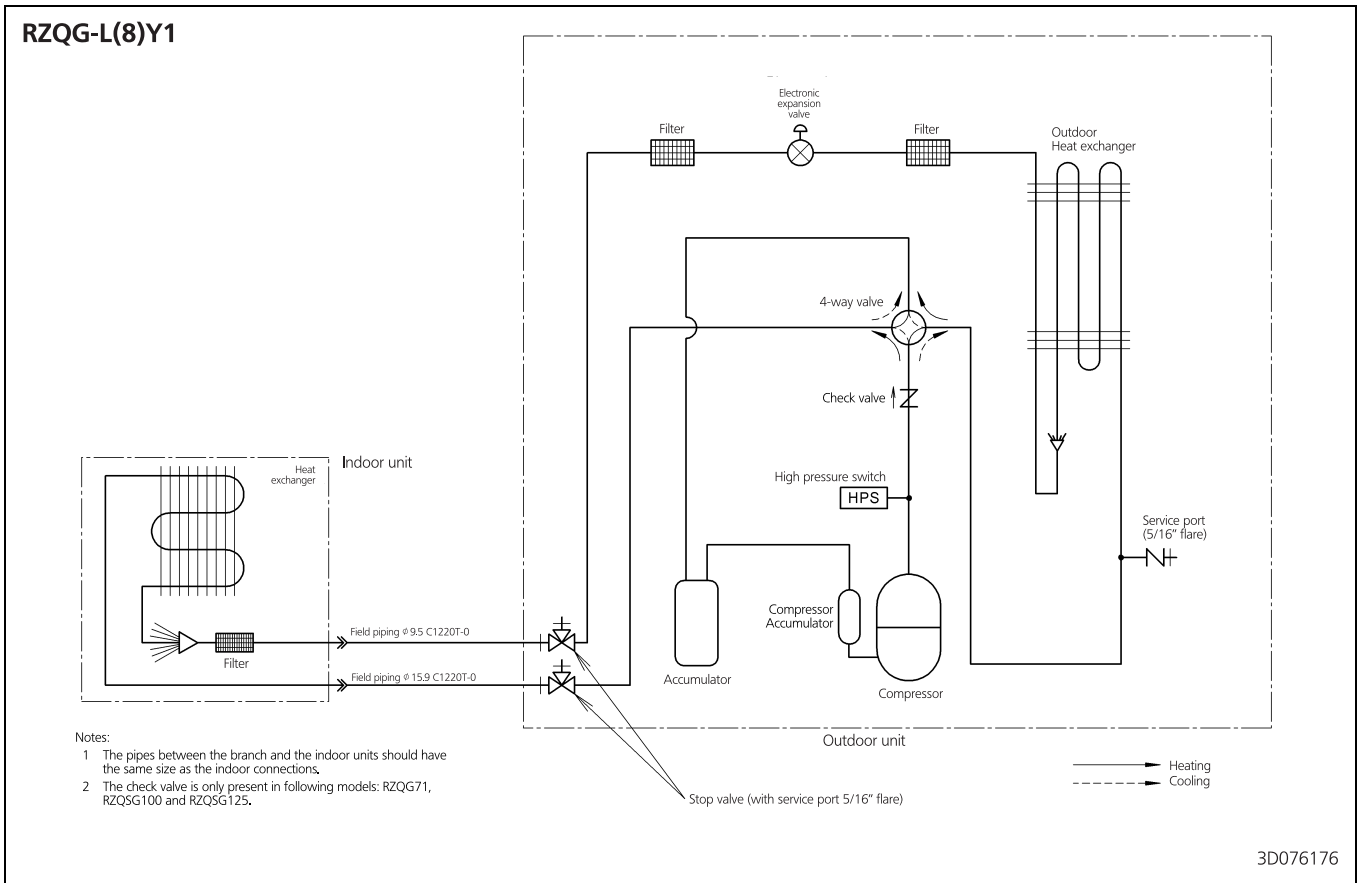


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9 Piping diagrams

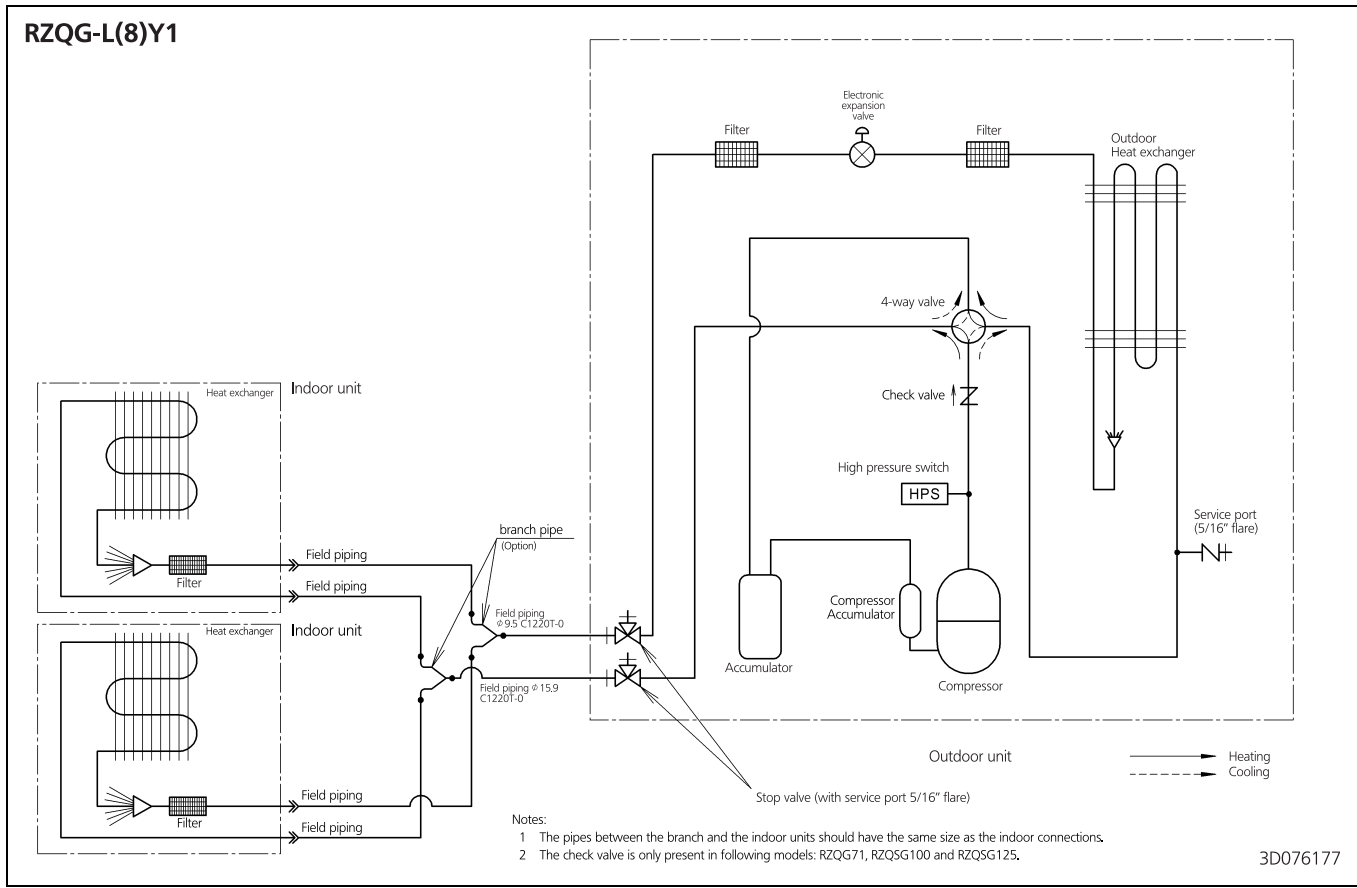
9 - 1 Piping Diagrams

9



9 Piping diagrams

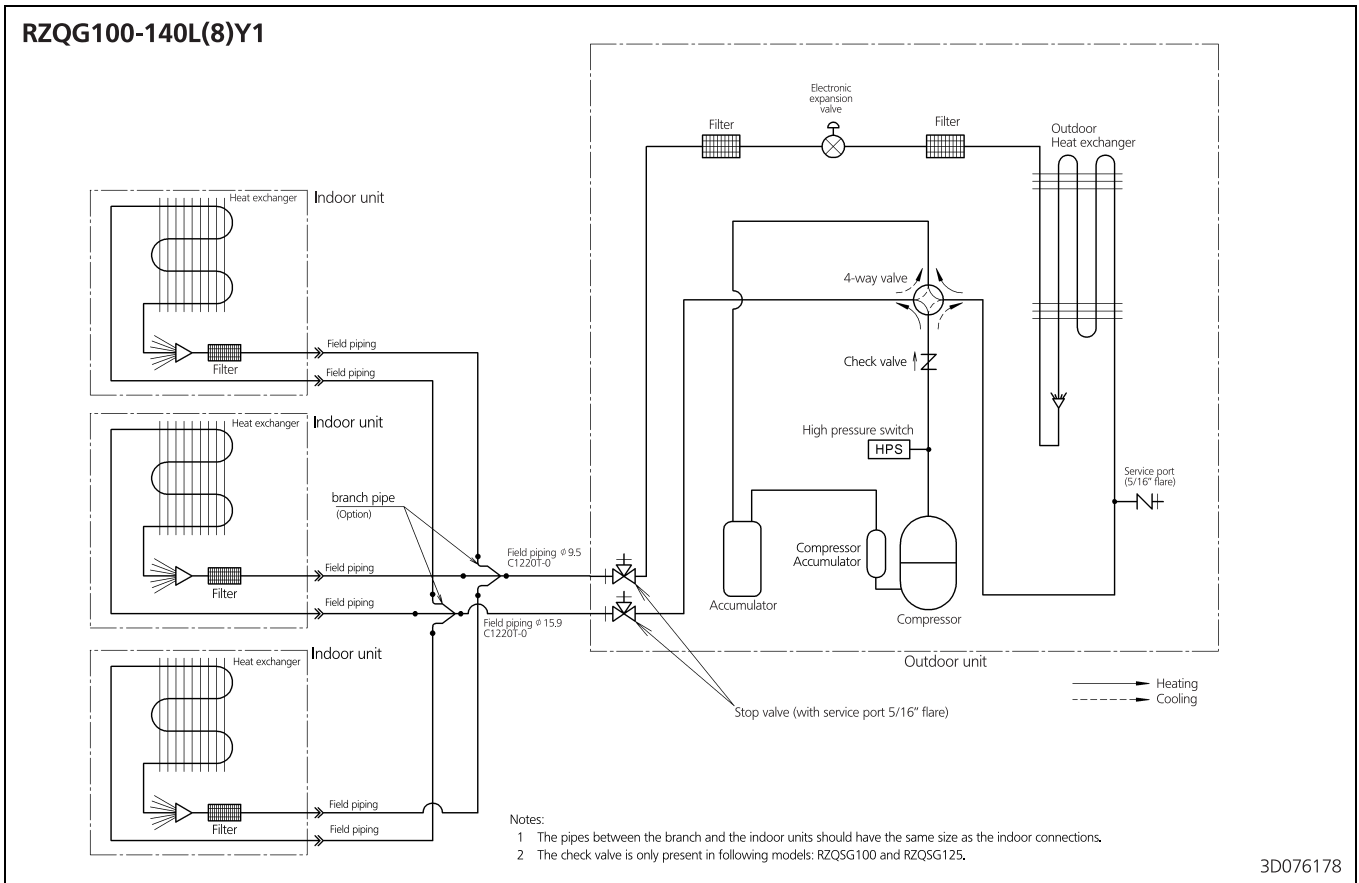
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

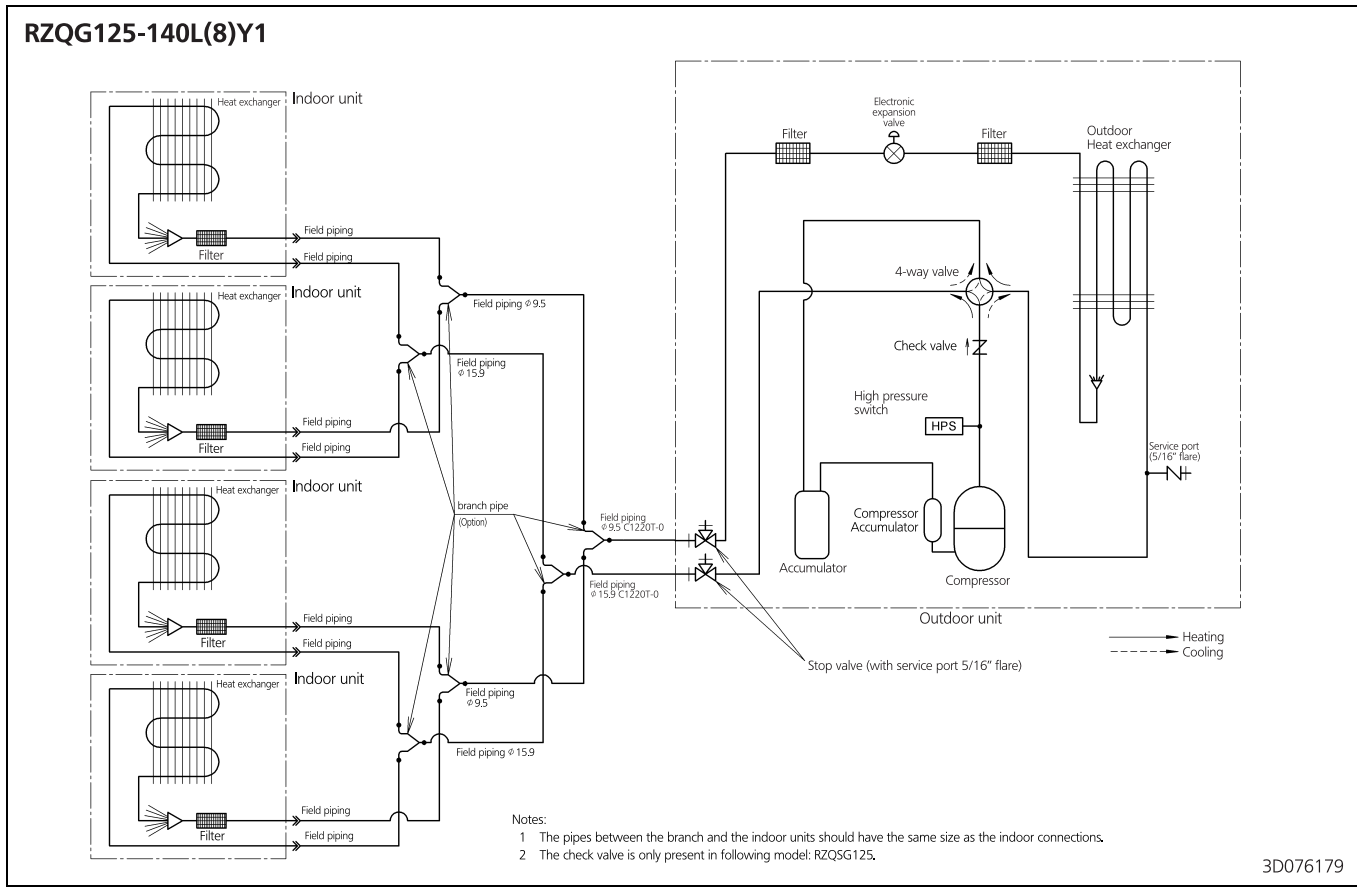
9 - 3 Piping Diagram Triple Application

9



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application



10 Wiring diagrams

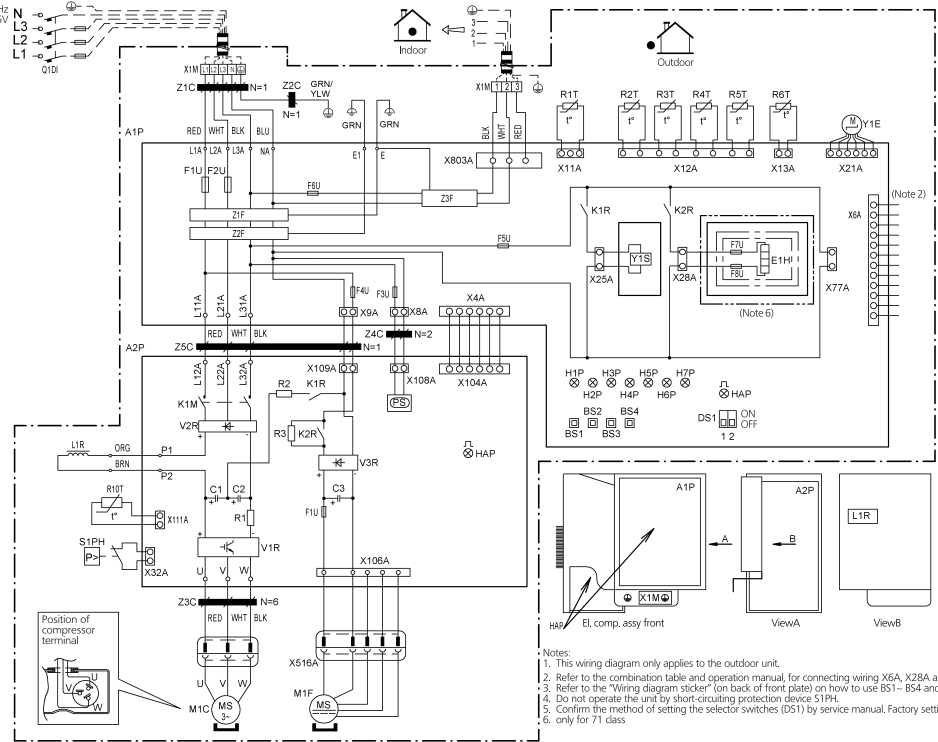
10 - 1 Wiring Diagrams - Three Phase

10

RZQG71L8Y1

- A1P : Printed circuit board
- A2P : Printed circuit board (inverter)
- BS1-BS2 : Push button switch
- C1-C3 : Capacitor
- DS1 : Dip switch
- E1H : Bottomplate heater (Option)
- F1U : Fuse (31.5A / 250V)
- F2U : Fuse (31.5A / 250V)
- F3U-F6U : Fuse (1 6.3A / 250V)
- F7U-F8U : Fuse (1 1.0A / 250V)
- F1U (A2P) : Fuse (1 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- HAP(A1P,A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (Y1S)
- K1R (A2P) : Magnetic relay
- K2R (A1P) : Magnetic relay (E1H Option)
- K2R (A2P) : Magnetic relay
- L1R : Reactor
- M1C : Motor (compressor)
- M1F : Motor (fan) (upper)
- M2F : Motor (fan) (lower)
- M2P : Switching power supply
- PS : Earth leakage breaker (30mA)
- Q1D1 : Resistor
- R1-R3 : Resistor
- R1T : Thermistor (air)
- R2T : Thermistor (discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Heat exchanger)
- R5T : Thermistor (heat exchanger middle)
- R6T : Thermistor (liquid)
- R6T : Thermistor (fin)
- R10T : Thermistor (fin)
- S1PH : Pressure switch (High)
- V1R : IGBT Power module
- V2R,V3R : Diode module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z2C : Noise filter (ferite core)
- Z1F-Z3F : Noise filter

- L: Live
 - N: Neutral
 - ⊕: Protective earth (screw)
 - ⊖: Noiseless earth
 - : Terminal
 - : Connection
 - : Terminal strip
 - ⊞: Connector
 - ⊞: Relay connector
 - ⋯: Option
- BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow

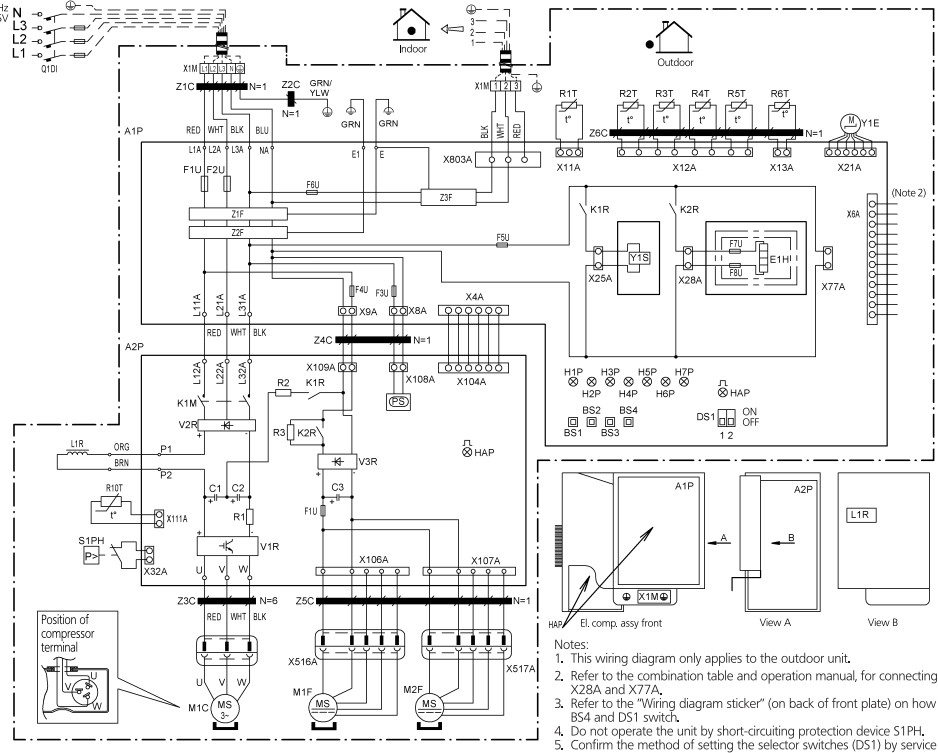


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RZQG100-140L(8)Y1

- A1P : Printed circuit board
- A2P : Printed circuit board (inverter)
- BS1-BS2 : Push button switch
- C1-C3 : Capacitor
- DS1 : Dip switch
- E1H : Bottomplate heater (Option)
- F1U : Fuse (31.5A / 250V)
- F2U : Fuse (31.5A / 250V)
- F3U-F6U : Fuse (1 6.3A / 250V)
- F7U-F8U : Fuse (1 1.0A / 250V)
- F1U (A2P) : Fuse (1 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- HAP(A1P,A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (Y1S)
- K1R (A2P) : Magnetic relay
- K2R (A1P) : Magnetic relay (E1H Option)
- K2R (A2P) : Magnetic relay
- L1R : Reactor
- M1C : Motor (compressor)
- M1F : Motor (fan) (upper)
- M2F : Motor (fan) (lower)
- M2P : Switching power supply
- PS : Earth leakage breaker (30mA)
- Q1D1 : Resistor
- R1-R3 : Resistor
- R1T : Thermistor (air)
- R2T : Thermistor (discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Heat exchanger)
- R5T : Thermistor (heat exchanger middle)
- R6T : Thermistor (liquid)
- R6T : Thermistor (fin)
- R10T : Thermistor (fin)
- S1PH : Pressure switch (High)
- V1R : IGBT Power module
- V2R,V3R : Diode module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z2C : Noise filter (ferite core)
- Z1F-Z3F : Noise filter

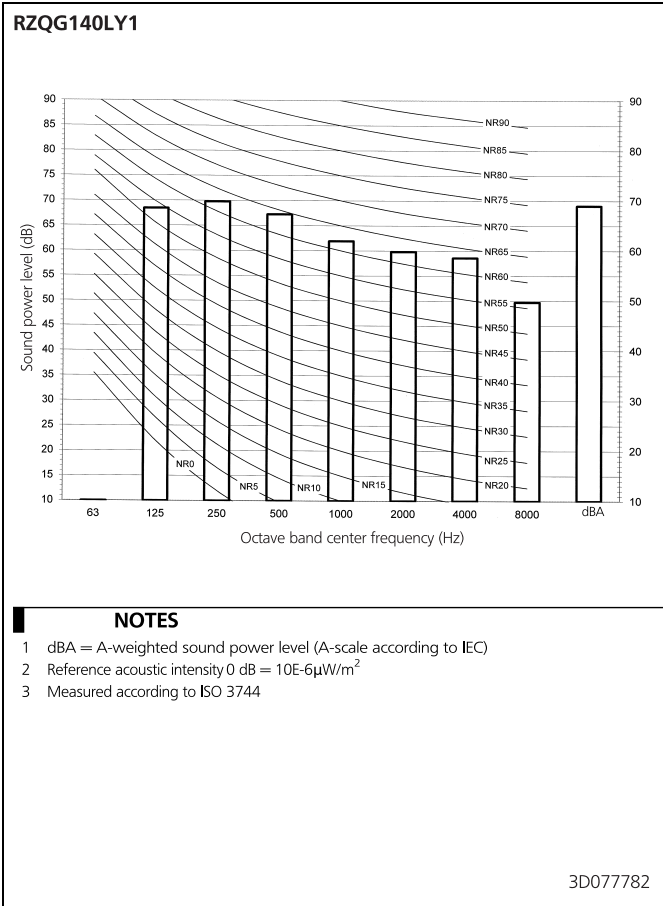
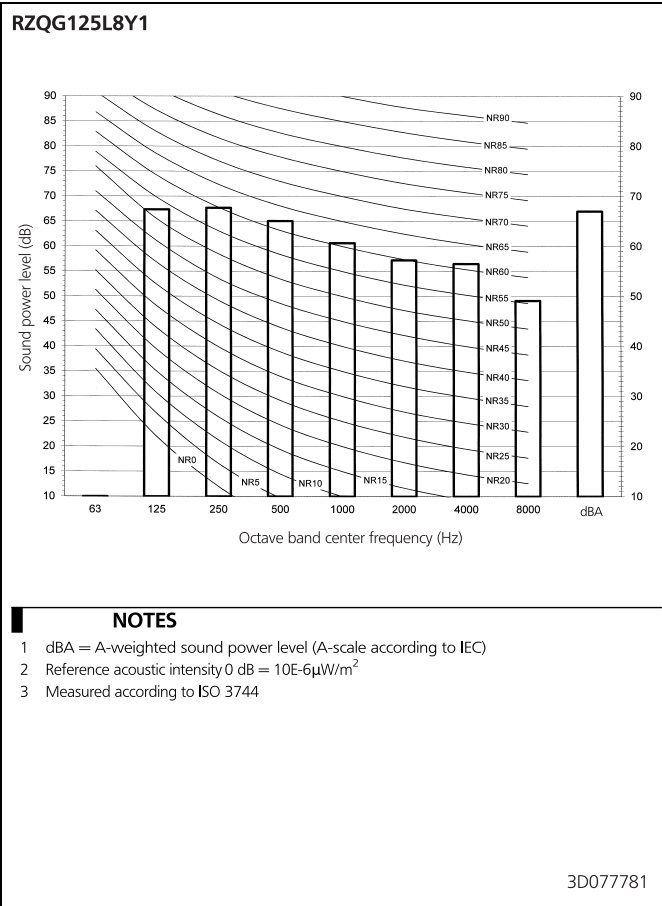
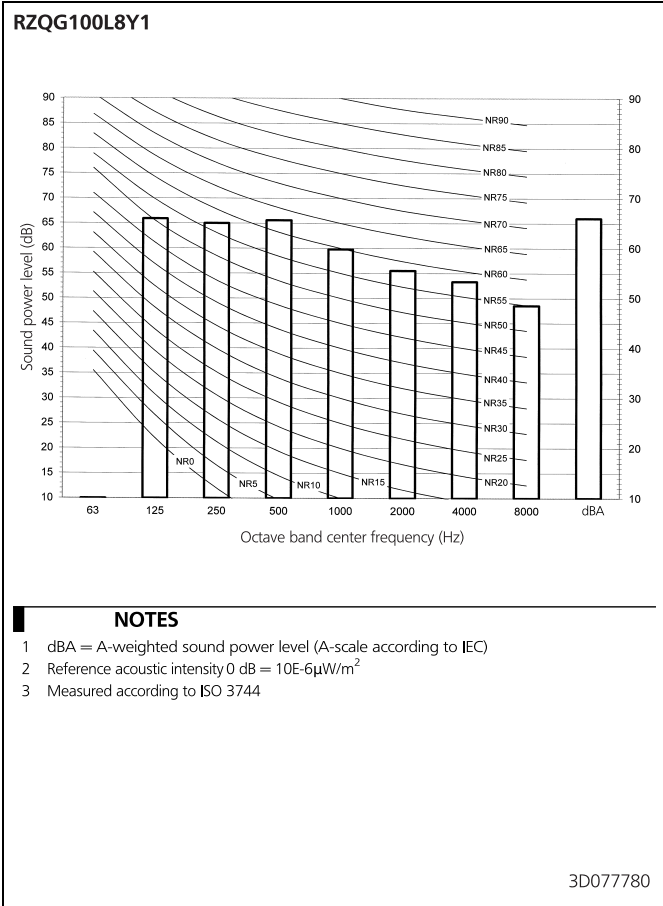
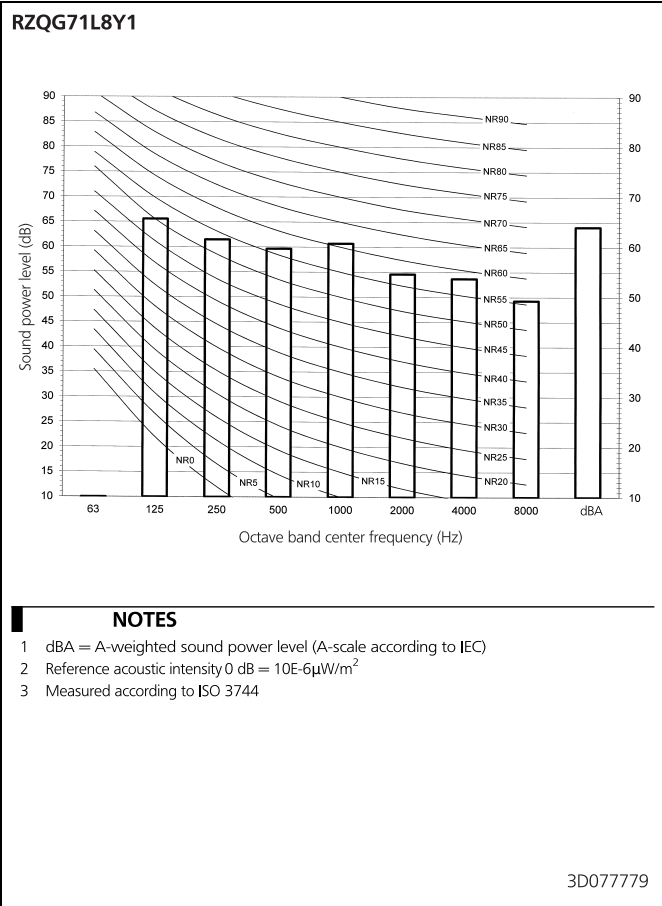
- L: Live
 - N: Neutral
 - ⊕: Protective earth (screw)
 - ⊖: Noiseless earth
 - : Terminal
 - : Connection
 - : Terminal strip
 - ⊞: Connector
 - ⊞: Relay connector
 - ⋯: Option
- BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow



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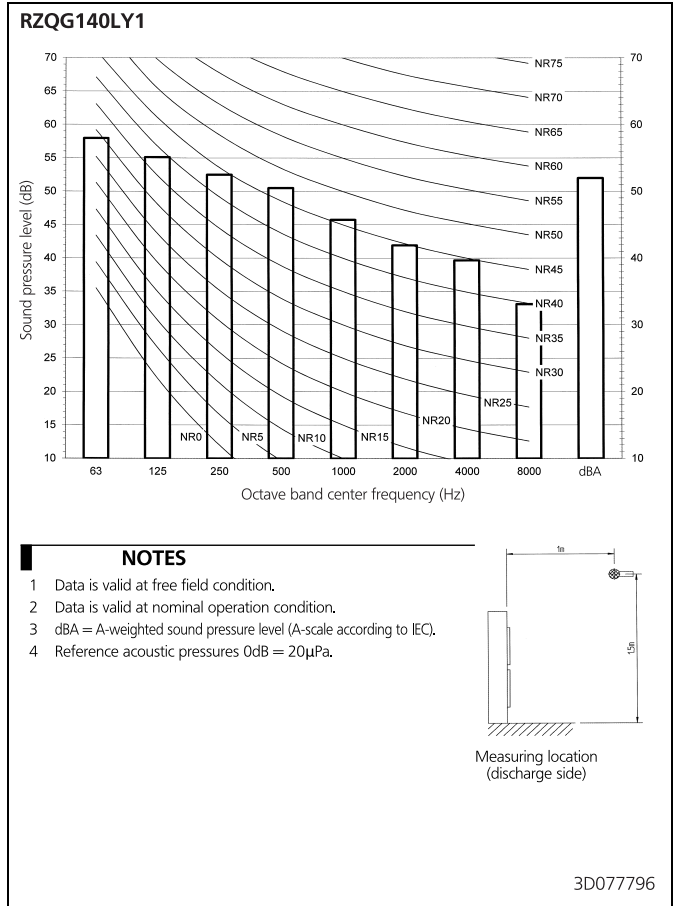
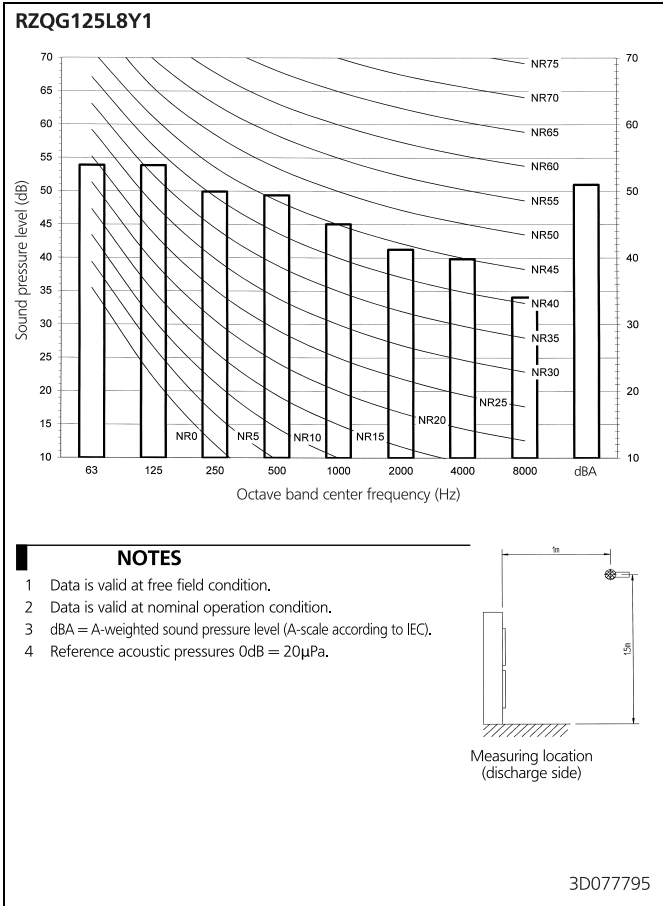
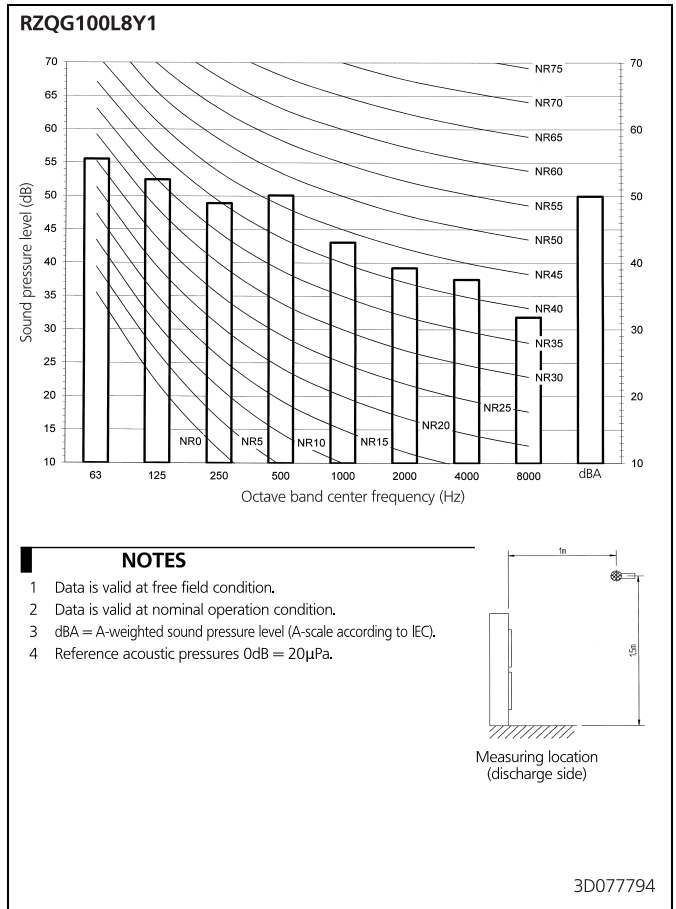
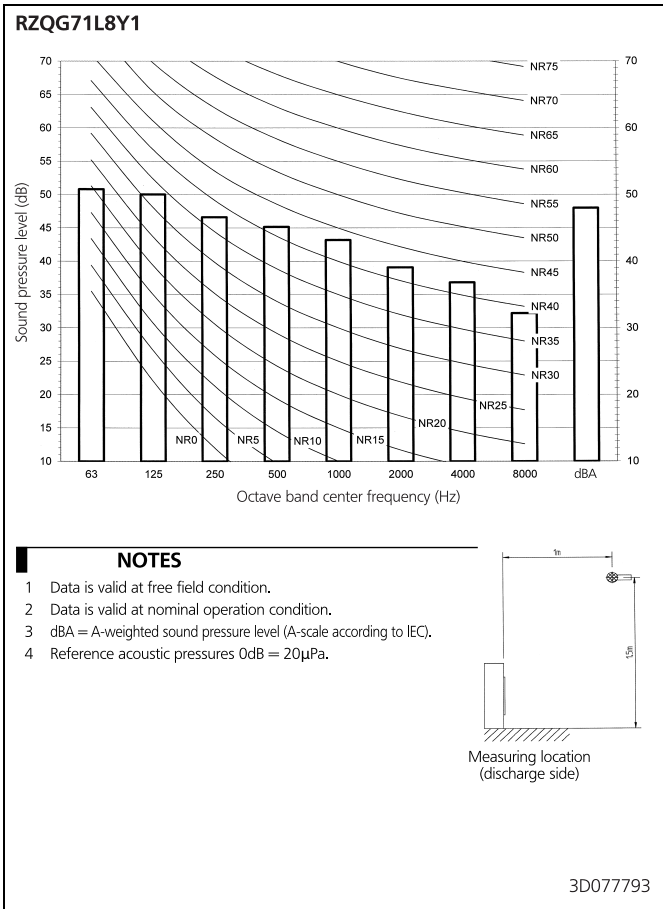
11 Sound data

11 - 1 Sound Power Spectrum



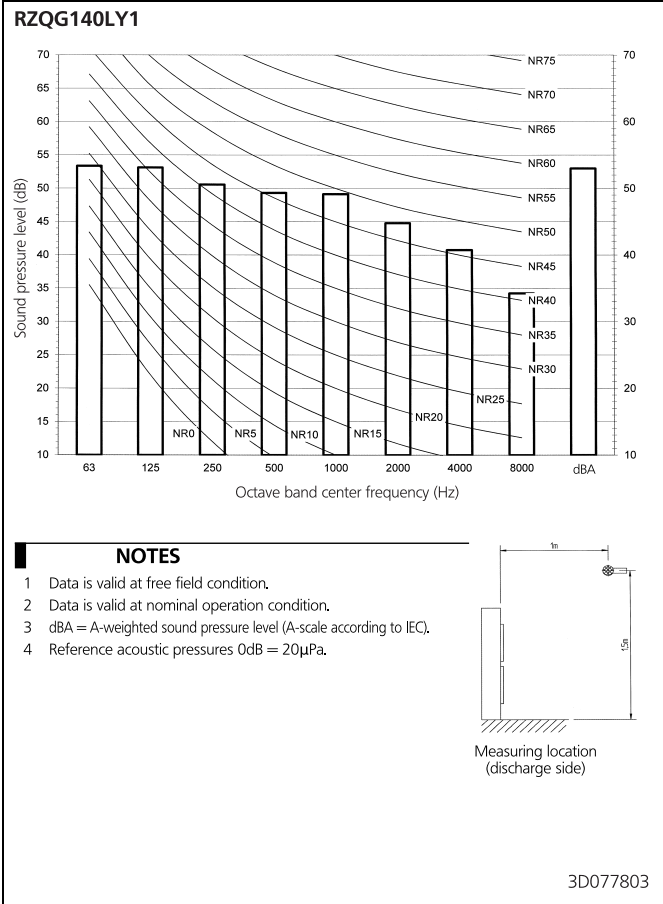
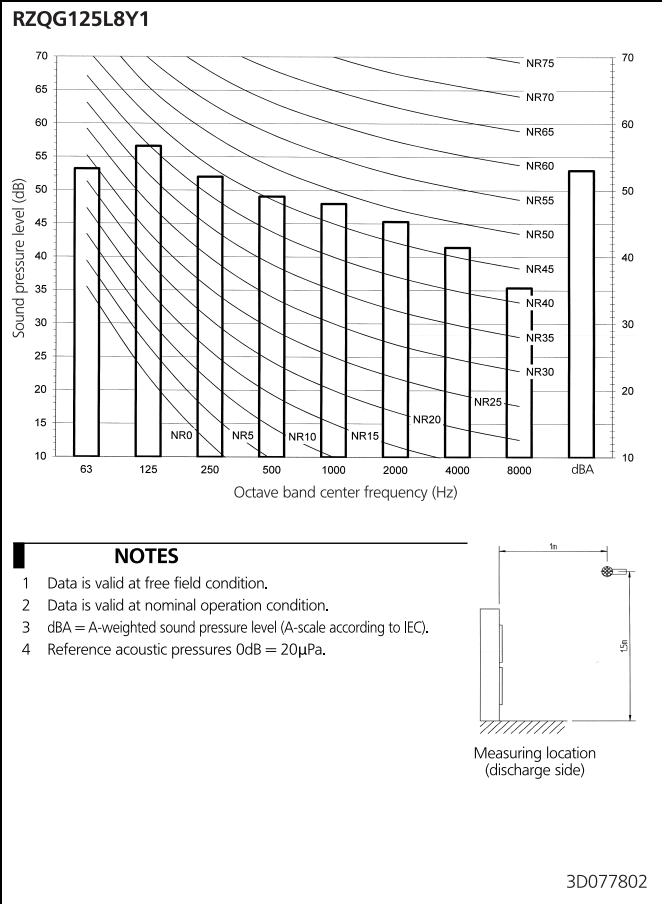
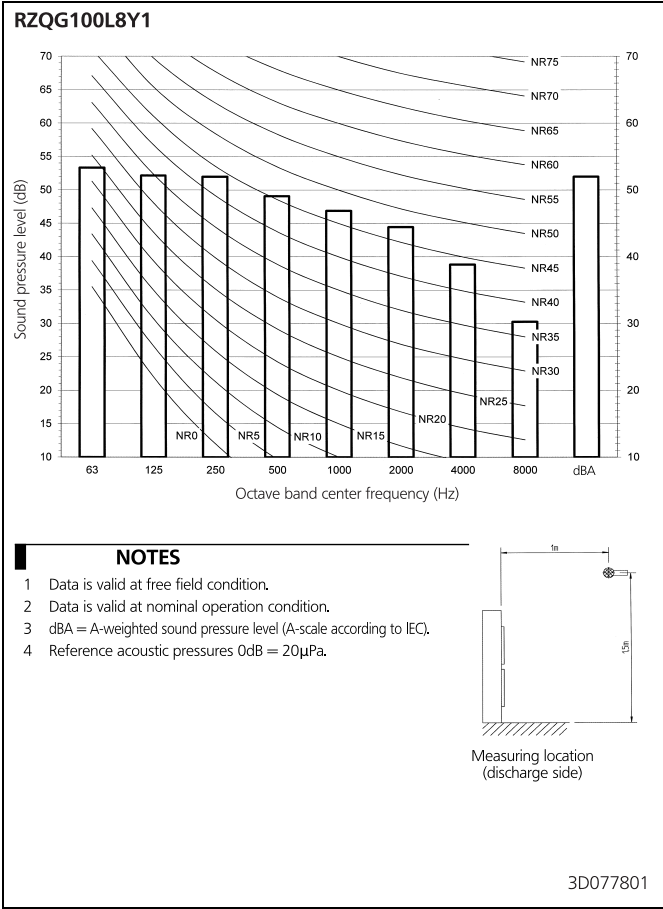
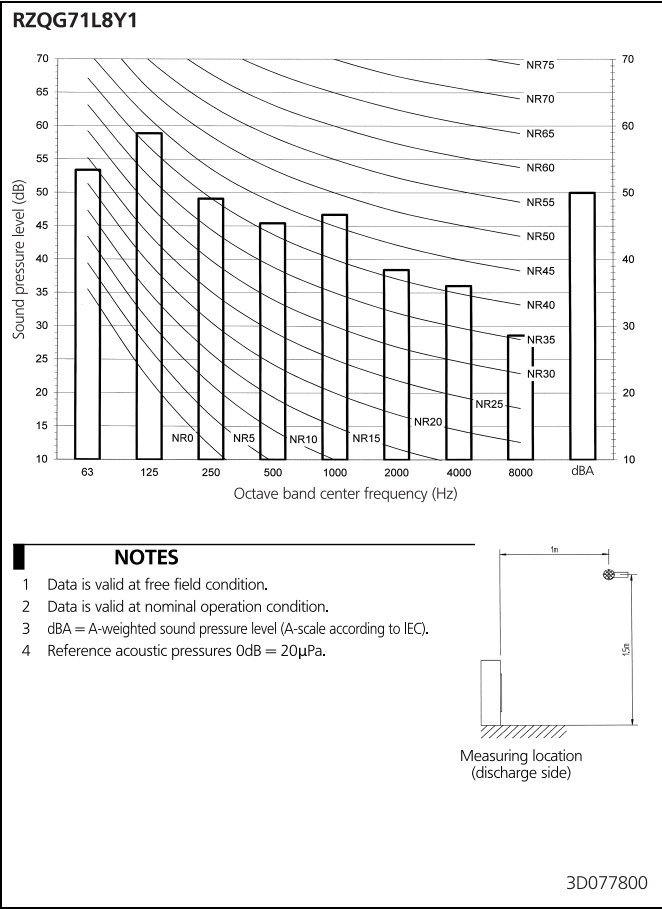
11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

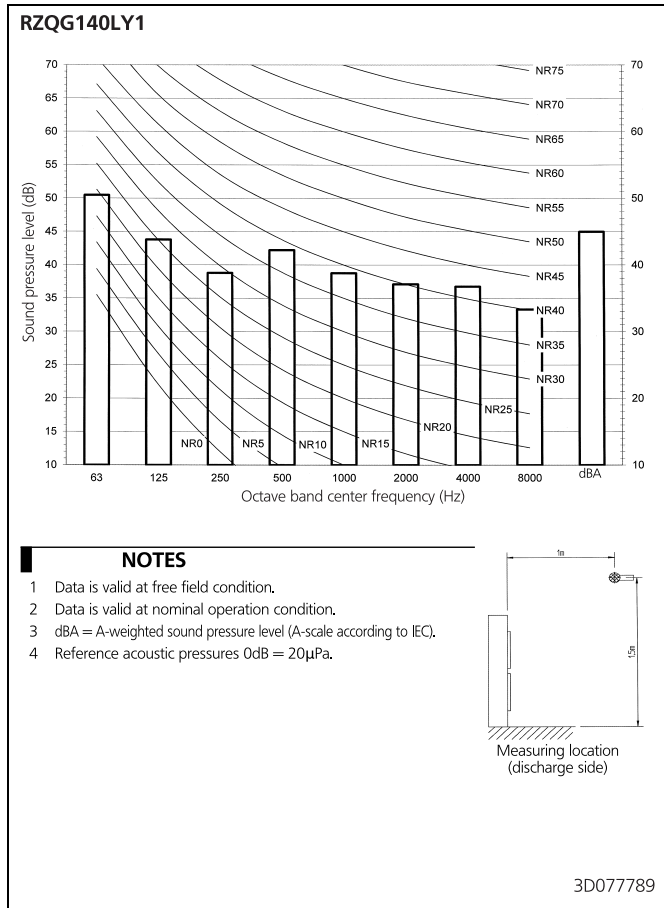
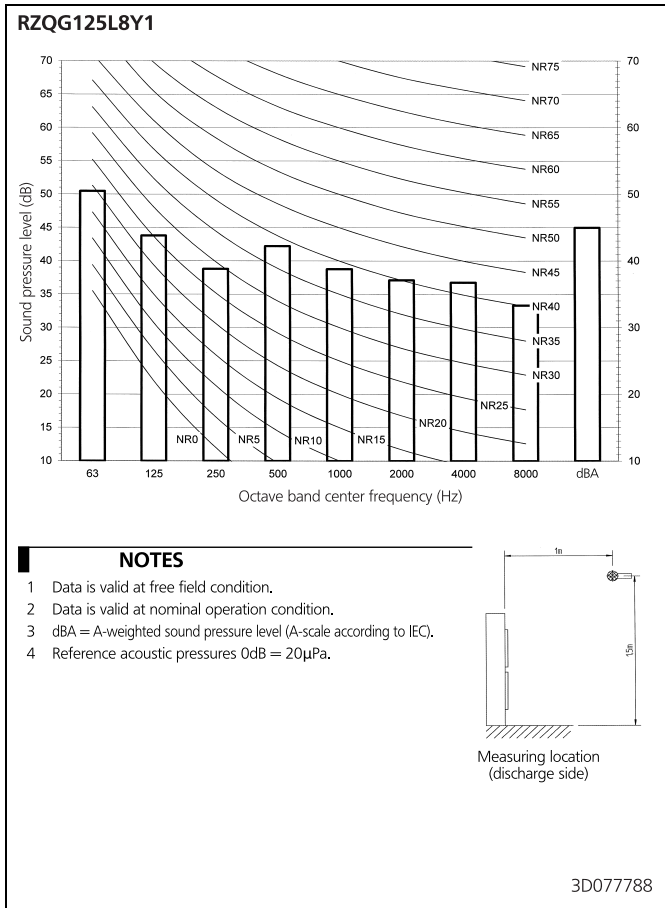
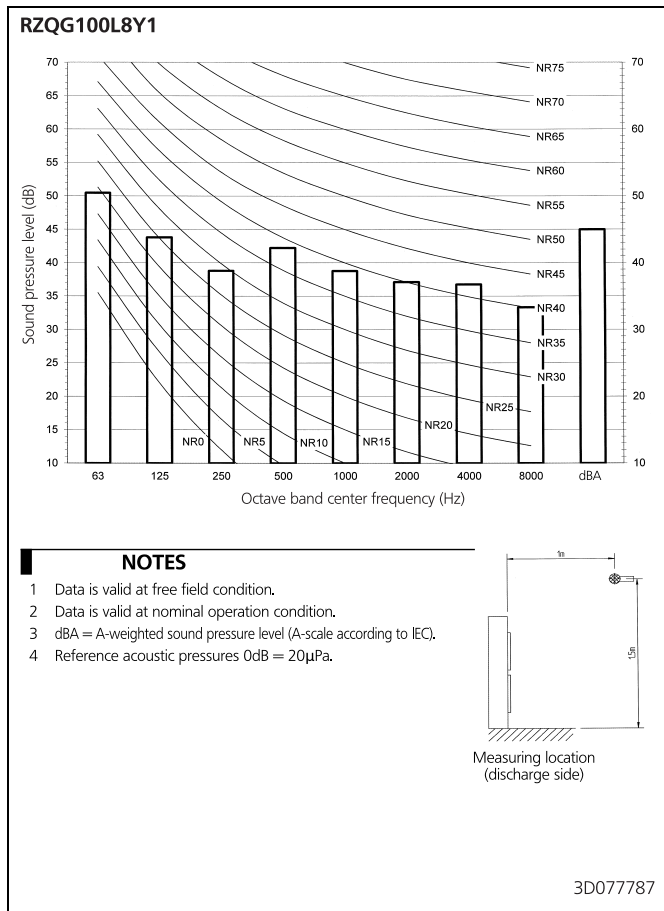
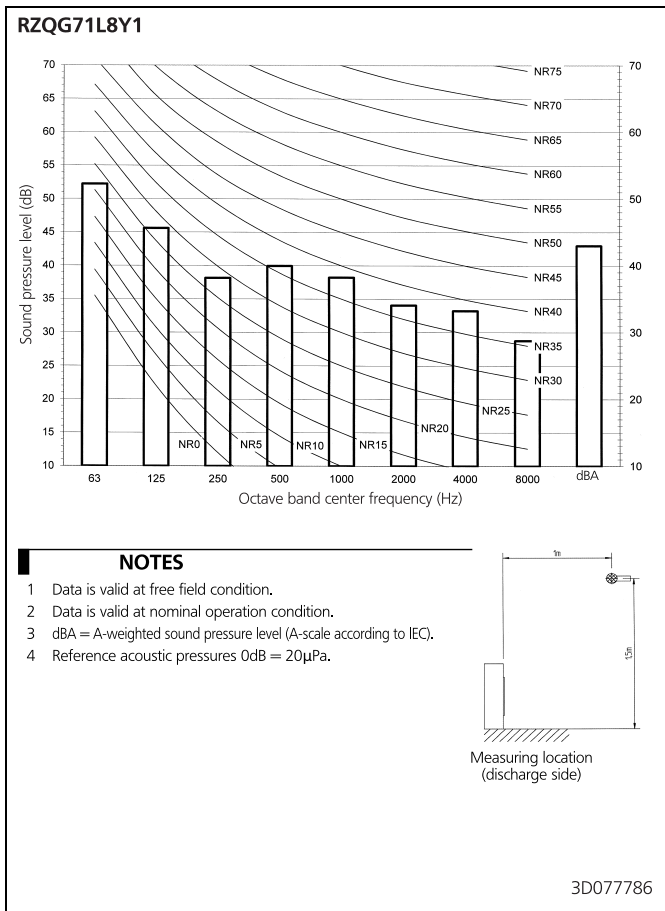
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

11



12 Installation

12 - 1 Installation Method

RZQG-L(8)Y1

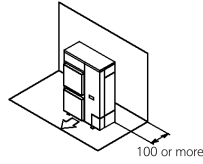
Installation service space

The measure of these values is "mm".

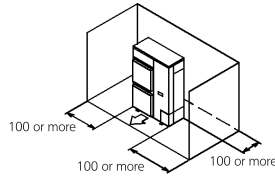
(A) When there are obstacles on suction sides.

• No obstacle above

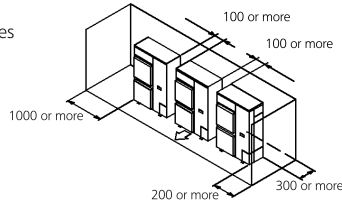
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

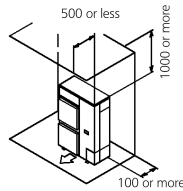


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

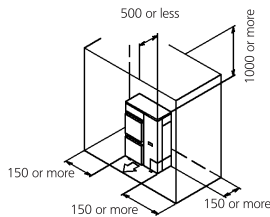


• Obstacle above, too.

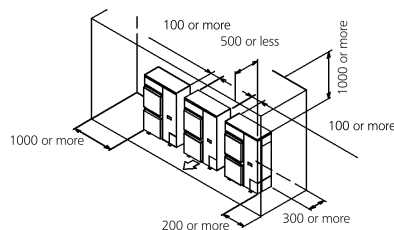
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



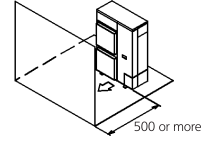
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



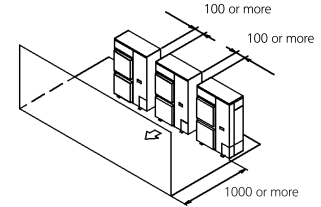
(B) When there are obstacles on discharge sides.

• No obstacle above

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

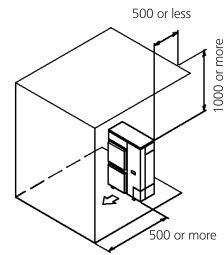


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

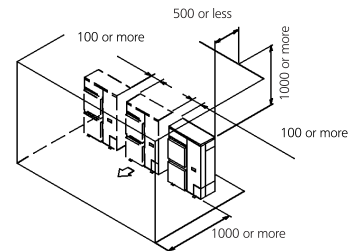


• Obstacle above, too

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



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



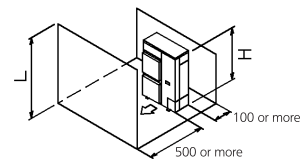
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

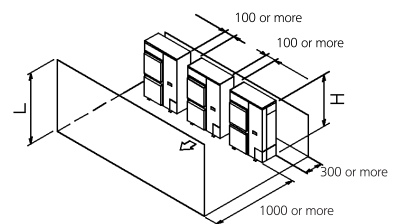
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



3D069554

12 Installation

12 - 1 Installation Method

12

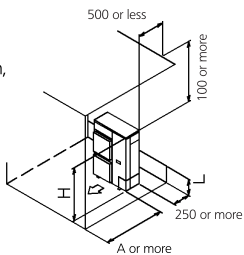
RZQG-L(8)Y1

● Obstacle above, too

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

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

	L	A
$L \leq H$	$L \leq 1/2 H$	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	

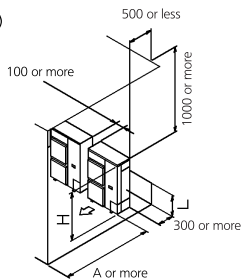


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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.

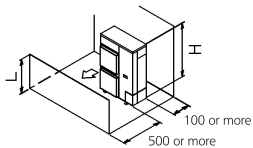


Pattern 2

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

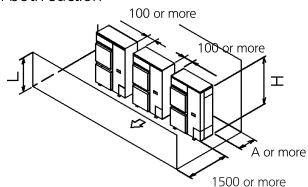
- ① Stand-alone installation
 - No obstacle above



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

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

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

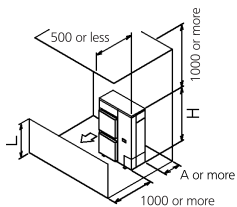


● Obstacle above, too

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

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

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

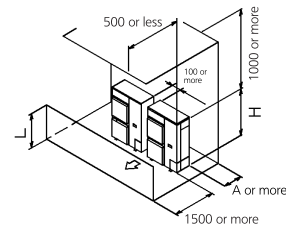


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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

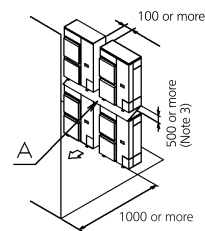
	L	A
$L \leq H$	$L \leq 1/2 H$	250 or more
	$1/2 H < L \leq H$	300 or more
$L > H$	Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

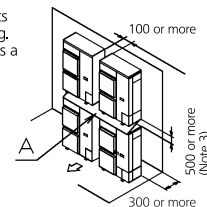


(D) Double-decker installation

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

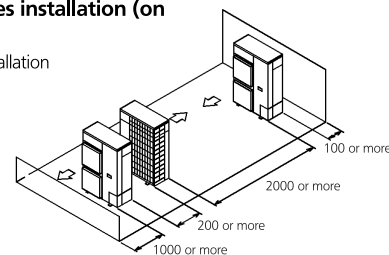


- ② Obstacle on the suction side. (Note 1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient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



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

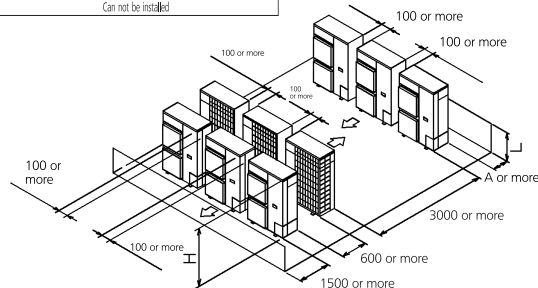
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

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

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



NOTES

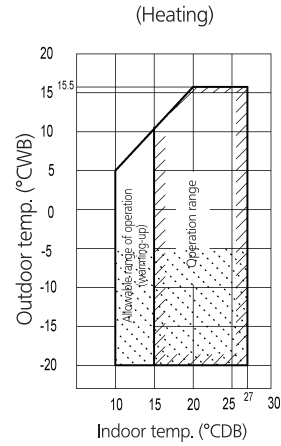
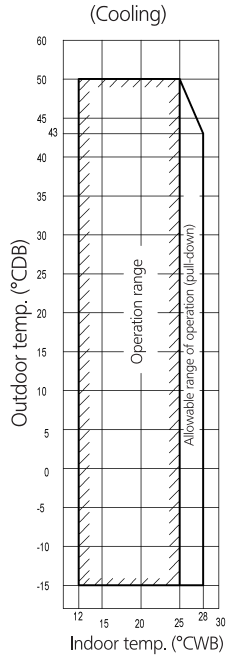
- In case of the sideways's piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between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

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13 Operation range

13 - 1 Operation Range

RZQG-L(8)Y1

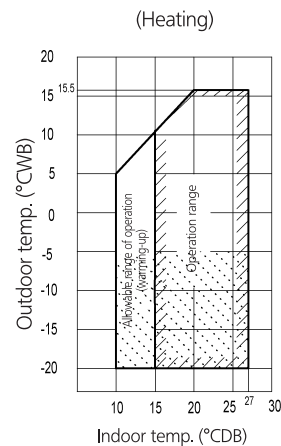
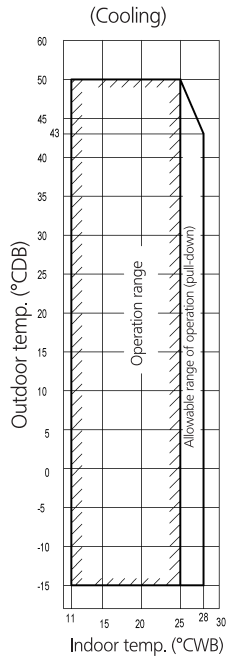


Notes:

- 1 Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 2 To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
- 3 If the unit has to operate for 5 days in this [] operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

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RZQG-L(8)Y1 - EDP Room



Notes:

- 1 Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 2 To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
- 3 If the unit has to operate for 5 days in this [] operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

3D076503



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