



Air Conditioners

Technical Data

Outdoor units optimized for seasonal efficiency



EEDEN12-100

RZQG-LY1

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RZQG-LY1

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1 Features

- Seasonal efficiency, optimized for all seasons.
- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Seasonal smart series already comply with EU's 2014 Eco-Design requirements
- 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 has no limitation
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall

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2 Specifications

2-1 Nominal Capacity And Nominal Input				FCQHG71F/RZQG71LY1	FCQHG100F/RZQG100LY1	FCQHG125F/RZQG125LY1	FCQHG140F/RZQG140LY1
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.66	2.15	3.00	4.00
	Heating	Nom.	kW	1.56	2.16	3.07	3.77
EER				4.09	4.42	4.00	3.35
COP				4.80	4.99	4.40	4.12
SEER				6.11 (6)	6.21 (6)	6.00 (6)	-
SCOP				4.18 (6)	4.30 (6)	3.89 (6)	-
Annual energy consumption			kWh	830	1,075	1,500	2,000
Energy label	Cooling			A			
	Heating			A			

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2-1 Nominal Capacity And Nominal Input				FCQG71F/RZQG71LY1	FCQG100F/RZQG100LY1	FCQG125F/RZQG125LY1	FCQG140F/RZQG140LY1
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.01	2.45	3.22	4.17
	Heating	Nom.	kW	1.89	2.60	3.72	4.30
EER				3.39	3.87	3.73	3.21
COP				3.97	4.15	3.63	3.61
SEER				5.81 (6)	5.99 (6)	5.69 (6)	-
SCOP				4.13 (6)	3.93 (6)	3.84 (6)	-
Annual energy consumption			kWh	1,005	1,225	1,610	2,085
Energy label	Cooling			A			
	Heating			A			

2-1 Nominal Capacity And Nominal Input				FDQ125C/RZQG125LY1			
Cooling capacity	Nom.		kW	12.0 (3)			
Heating capacity	Nom.		kW	13.5 (4)			
Power input	Cooling	Nom.	kW	3.20			
	Heating	Nom.	kW	3.53			
EER				3.75			
COP				3.83			
SEER				5.61 (6)			
SCOP				4.05 (6)			
Annual energy consumption			kWh	1,600			
Energy label	Cooling			A			
	Heating			A			

2-1 Nominal Capacity And Nominal Input				FAQ71C / RZQG71LY1		FAQ100C / RZQG100LY1	
Cooling capacity	Nom.		kW	6.8 (3)		9.5(3)	
Heating capacity	Nom.		kW	7.5 (4)		10.8(4)	
Power input	Cooling	Nom.	kW	2.00		2.63	
	Heating	Nom.	kW	2.03		3.0	
EER				3.40		3.62	
COP				3.70		3.61	
SEER				5.21 (6)		5.11(6)	
SCOP				3.9 (6)		4.01(6)	
Annual energy consumption			kWh	1,000		1,315	
Energy label	Cooling			A		A	
	Heating			A		A	

2 Specifications

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2-1 Nominal Capacity And Nominal Input				FBQ71C8/RZQG71LY1	FBQ100C8/RZQG100LY1	FBQ125C8/RZQG125LY1	FBQ140C8/RZQG140LY1
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.94	2.44	3.15	4.02
	Heating	Nom.	kW	2.05	2.57	3.53	4.30
EER				3.50	3.89	3.81	3.33
COP				3.65	4.21	3.83	3.61
SEER				5.61 (6)			-
SCOP				4.01 (6)	4.25 (6)	4.05 (6)	-
Annual energy consumption			kWh	970	1,220	1,575	2,010
Energy label	Cooling						A
	Heating						A

2-1 Nominal Capacity And Nominal Input				FVQ71C/RZQG71LY1	FVQ100C/RZQG100LY1	FVQ125C/RZQG125LY1	FVQ140C/RZQG140LY1
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	2.02	2.49	3.74	4.17
	Heating	Nom.	kW	2.06	2.61	3.65	4.30
EER				3.37	3.81	3.21	
COP				3.64	4.14	3.70	3.61
SEER				5.16 (6)	5.59 (6)	4.77 (6)	-
SCOP				3.81 (6)	3.80 (6)	3.85 (6)	-
Annual energy consumption			kWh	1,010	1,245	1,870	2,085
Energy label	Cooling						A
	Heating						A

2-1 Nominal Capacity And Nominal Input				FHQG71C/RZQG71LY1	FHQG100C/RZQG100LY1	FHQG125C/RZQG125LY1	FHQG140C/RZQG140LY1
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)	13.4 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)	15.5 (4)
Power input	Cooling	Nom.	kW	1.78	2.49	3.58	4.05
	Heating	Nom.	kW	1.82	2.60	3.48	4.27
EER				3.82	3.81	3.35	3.31
COP				4.13	4.15	3.89	3.63
SEER				5.65 (6)	5.69 (6)	5.11 (6)	-
SCOP				3.95 (6)	4.20 (6)	4.01 (6)	-
Annual energy consumption			kWh	890	1,245	1,790	2,025
Energy label	Cooling						A
	Heating						A

2 Specifications

2-1 Nominal Capacity And Nominal Input				FUQ71B8/RZQG71LY1	FUQ100B8/ RZQG100LY1	FUQ125B8/ RZQG125LY1
Cooling capacity	Nom.		kW	6.8 (3)	9.5 (3)	12.0 (3)
Heating capacity	Nom.		kW	7.5 (4)	10.8 (4)	13.5 (4)
Power input	Cooling	Nom.	kW	1.68	2.46	3.54
	Heating	Nom.	kW	1.84	2.73	3.95
EER				4.05	3.86	3.39
COP				4.08	3.95	3.42
SEER				5.25 (6)	4.67 (6)	4.41 (6)
SCOP				3.89 (6)	4.02 (6)	4.09 (6)
Annual energy consumption			kWh	840	1,230	1,770
Energy label	Cooling		A			
	Heating		A		B	

Notes

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

2-2 Technical Specifications				RZQG71LY1	RZQG100LY1	RZQG125LY1	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	Length		mm	904				
	Rows	Quantity		2				
	Fin pitch		mm	1.4				
	Passes	Quantity		12	16			
	Face area		m ²	0.87	1.273			
	Stages	Quantity		44	64			
	Empty tubeplate hole	Quantity		0				
	Tube type		ø7 Hi-XSL					
	Fin	Type		WF fin				
		Treatment		Anti-corrosion treatment (PE)				
Fan	Type			Propeller fan				
	Discharge direction			Horizontal				
	Quantity			1	2			
	Air flow rate	Cooling	Nom.	m ³ /min	59	70	84	
			Super low	m ³ /min	-			
		Heating	Nom.	m ³ /min	49	62		
			Super low	m ³ /min	-			
		cfm	-					
		cfm	-					

2 Specifications

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2-2 Technical Specifications					RZQG71LY1	RZQG100LY1	RZQG125LY1	RZQG140LY1	
Fan motor	Quantity				1	2			
	Model				Brushless DC motor				
	Output			W	94				
	Drive				Direct drive				
	Speed	Steps				8			
		Cooling	Nom.	rpm	670	600		700	
Super low			rpm	-					
Heating		Nom.	rpm	560	540				
	Super low	rpm	-						
Sound power level	Cooling	Nom.	dBA	64	66	67	69		
Sound pressure level	Cooling	Nom.	dBA	48	50	51	52		
	Heating	Nom.	dBA	50	52	53			
	Night quiet mode	Level 1	dBA	43	45				
Compressor	Quantity				1				
	Model				2YC63PXD	2YC90CXD			
	Type				Hermetically sealed swing compressor				
	Output			W	1,550	2,430	3,100	3,620	
	Starting method				Inverter driven				
Operation range	Cooling	Ambient	Min.	°CDB	-15.0				
			Max.	°CDB	50.0				
	Heating	Ambient	Min.	°CWB	-20.0				
			Max.	°CWB	15.5				
Refrigerant	Type				R-410A				
	Charge			kg	2.9	4.0			
	Control				Expansion valve (electronic type)				
	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 (2)				
			Max.	m	50	75			
		System	Equivalent	m	70	90			
			Charge-less	m	30				
	Additional refrigerant charge			kg/m	See installation manual 4P302555-1				
Level difference	IU - OU	Max.	m	30.0					
	IU - IU	Max.	m	0.5					
Heat insulation				Both liquid and gas pipes					
Defrost method				Pressure equalising					
Defrost control				Sensor for outdoor heat exchanger temperature					
Safety devices	Item	01		High pressure switch					
		02		Fan motor thermal protection					
		03		Fuse					

2 Specifications

2-3 Electrical Specifications				RZQG71LY1	RZQG100LY1	RZQG125LY1	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		
Wiring connections	For power supply	Remark	See installation manual 4P302555-1					
	For connection with indoor	Remark	See installation manual 4P302555-1					
Power supply intake			Outdoor unit only					

Notes

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

3 Electrical data

3 - 1 Electrical Data

RZQG71-100LY1

Indoor	Outdoor	Phase-Hz Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM			
							MSC	RLA	kW	FLA	kW	FLA		
FCQG71EVEB	RZQG71L7Y1B	3N-50Hz 380-415V	Min. 342V Max. 456V	11.5	—	16	—	9.6	0.094	0.4	0.048	0.4		
FCQHG71FVEB	RZQG71L7Y1B			11.6	—	16	—	9.6	0.094	0.4	0.091	0.5		
FCQG35FVEB	x2 RZQG71L7Y1B			11.8	—	16	—	9.6	0.094	0.4	0.044x2	0.3x2		
FCQG71FVEB	RZQG71L7Y1B			11.5	—	16	—	9.6	0.094	0.4	0.054	0.4		
FFQ35B9V1B	x2 RZQG71L7Y1B			12.0	—	16	—	9.6	0.094	0.4	0.055x2	0.4x2		
FBQ35C8VEB	x2 RZQG71L7Y1B			14.0	—	16	—	9.6	0.094	0.4	0.140x2	1.2x2		
FBQ71C8VEB	RZQG71L7Y1B			12.4	—	16	—	9.6	0.094	0.4	0.350	1.1		
FHQ35BWW1B	x2 RZQG71L7Y1B			12.5	—	16	—	9.6	0.094	0.4	0.062x2	0.6x2		
FHQG71CVEB	RZQG71L7Y1B			12.0	—	16	—	9.6	0.094	0.4	0.091	0.8		
FUQ71BWW1B	RZQG71L7Y1B			11.8	—	16	—	9.6	0.094	0.4	0.180	0.6		
FAQ71CVEB	RZQG71L7Y1B			11.5	—	16	—	9.6	0.094	0.4	0.048	0.4		
FVQ71CVEB	RZQG71L7Y1B			11.8	—	16	—	9.6	0.094	0.4	0.117	0.6		
FCQG100EVEB	RZQG100L7Y1B			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	RZQG100L7Y1B					18.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.221	1.3
FCQG35FVEB	x3 RZQG100L7Y1B					17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x3	0.3x3
FCQG50FVEB	x2 RZQG100L7Y1B					17.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039x2	0.3x2
FCQG100FVEB	RZQG100L7Y1B					17.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.117	0.7
FFQ35B9V1B	x3 RZQG100L7Y1B					18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.055x3	0.4x3
FFQ50B9V1B	x2 RZQG100L7Y1B	18.3	—			20	—	14.2	0.094+0.094	0.4+0.4	0.055x2	0.7x2		
FBQ35C8VEB	x3 RZQG100L7Y1B	21.0	—			25	—	14.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3		
FBQ50C8VEB	x2 RZQG100L7Y1B	19.5	—			20	—	14.2	0.094+0.094	0.4+0.4	0.140x2	1.2x2		
FBQ100C8VEB	RZQG100L7Y1B	18.5	—			20	—	14.2	0.094+0.094	0.4+0.4	0.350	1.6		
FHQ35BWW1B	x3 RZQG100L7Y1B	18.8	—			20	—	14.2	0.094+0.094	0.4+0.4	0.062x3	0.6x3		
FHQ50BWW1B	x2 RZQG100L7Y1B	18.0	—			20	—	14.2	0.094+0.094	0.4+0.4	0.062x2	0.6x2		
FHQG100CVEB	RZQG100L7Y1B	18.0	—			20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.2		
FUQ100BWW1B	RZQG100L7Y1B	17.8	—			20	—	14.2	0.094+0.094	0.4+0.4	0.289	1.0		
FAQ100CVEB	RZQG100L7Y1B	17.0	—			20	—	14.2	0.094+0.094	0.4+0.4	0.064	0.4		
FVQ100CVEB	RZQG100L7Y1B	18.0	—			20	—	14.2	0.094+0.094	0.4+0.4	0.238	1.2		

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SYMBOLS

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

NOTES

- 1 RLA is based on the following conditions:
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)

3 Electrical data

3 - 1 Electrical Data

RZQG125-140LY1

Indoor	Outdoor	Phase-Hz Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM	
							MSC	RLA	kW	FLA	kW	FLA
FCQG125EVEB	RZQG125L7Y1B	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
FCQHG125FVEB	RZQG125L7Y1B			18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	x4 RZQG125L7Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4
FCQG50FVEB	x3 RZQG125L7Y1B			17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3
FCQG60FVEB	x2 RZQG125L7Y1B			17.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x2	0.3x2
FCQG125FVEB	RZQG125L7Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35B9V1B	x4 RZQG125L7Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.055x4	0.4x4
FFQ50B9V1B	x3 RZQG125L7Y1B			19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.055x3	0.7x3
FFQ60B9V1B	x2 RZQG125L7Y1B			18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.055x2	0.7x2
FBQ35C8VEB	x4 RZQG125L7Y1B			22.5	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x4	1.2x4
FBQ50C8VEB	x3 RZQG125L7Y1B			21.0	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3
FBQ60C8VEB	x2 RZQG125L7Y1B			19.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350x2	1.1x2
FBQ125C8VEB	RZQG125L7Y1B			19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350	2.1
FHQ35BWW1B	x4 RZQG125L7Y1B			19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.062x4	0.6x4
FHQ50BWW1B	x3 RZQG125L7Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.062x3	0.6x3
FHQ60BWW1B	x2 RZQG125L7Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.062x2	0.6x2
FHQG125CVEB	RZQG125L7Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.6
FUQ125BWW1B	RZQG125L7Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.289	1.0
FDQ125C7VEB	RZQG125L7Y1B			19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350	2.1
FVQ125CVEB	RZQG125L7Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.238	1.2
FCQG71EVEB	x2 RZQG140L7Y1B			17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2
FCQG140EVEB	RZQG140L7Y1B			17.9	—	20	—	14.2	0.094+0.094	0.4+0.4	0.106	1.1
FCQHG71FVEB	x2 RZQG140L7Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091x2	0.5x2
FCQHG140FVEB	RZQG140L7Y1B			18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	x4 RZQG140L7Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4
FCQG50FVEB	x3 RZQG140L7Y1B			17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3
FCQG71FVEB	x2 RZQG140L7Y1B			17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.054x2	0.4x2
FCQG140FVEB	RZQG140L7Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35B9V1B	x4 RZQG140L7Y1B	18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.055x4	0.4x4		
FFQ50B9V1B	x3 RZQG140L7Y1B	19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.055x3	0.7x3		
FBQ35C8VEB	x4 RZQG140L7Y1B	22.5	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x4	1.2x4		
FBQ50C8VEB	x3 RZQG140L7Y1B	21.0	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3		
FBQ71C8VEB	x2 RZQG140L7Y1B	19.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350x2	1.1x2		
FBQ140C8VEB	RZQG140L7Y1B	19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350	2.1		
FHQ35BWW1B	x4 RZQG140L7Y1B	19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.062x4	0.6x4		
FHQ50BWW1B	x3 RZQG140L7Y1B	18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.062x3	0.6x3		
FHQG71CVEB	x2 RZQG140L7Y1B	18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091x2	0.8x2		
FHQG140CVEB	RZQG140L7Y1B	18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.8		
FUQ71BWW1B	x2 RZQG140L7Y1B	18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.180x2	0.6x2		
FAQ71CVEB	x2 RZQG140L7Y1B	17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2		
FVQ140CVEB	RZQG140L7Y1B	18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.276	1.4		

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SYMBOLS

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

NOTES

- 1 RLA is based on the following conditions:
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)

4 Options

4 - 1 Options

RZQG-LY1

Available options for RZQG models:

Name of option	Kit name			
	RZQG71L7V1B	RZQG100L7V1B	RZQG125L7V1B	RZQG140L7V1B
Bottom plate heater	RZQG71L7Y1B	RZQG100L7Y1B	RZQG125L7Y1B	RZQG140L7Y1B
	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 adaptor kit	KRP58M51			

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NOTES

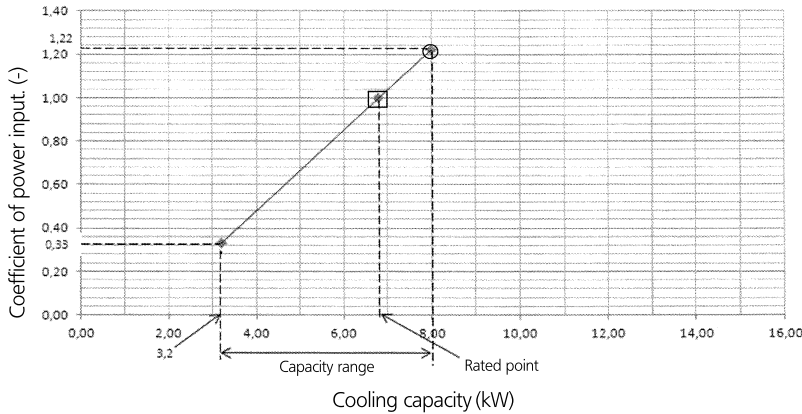
- 1 For combination of RZQG71L7V1B and EKBPH140L7 it is required to use the demand adaptor kit KRP58M51 in order to connect the bottom plate heater.
- 2 For RZQ(S)G71[]140L7Y1B in combination with FCQG35[]71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG71LY1

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)

	FCQHG71F	FCQG71F	FBQ71C8	FHQG71C	FUQ71B8	FAQ71C	FVQ71C
AFR	21.2	21.5	18	20.5	19	18	18
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.07)	(0.16)	(0.16)

(Twin)

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

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

(Pair)

	FCQHG71F	FCQG71F	FBQ71C8	FHQ71C	FUQ71B8	FAQ71C	FVQ71C
Cooling	1.66	2.01	1.94	1.78	1.68	2.00	2.02

(Twin)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
Cooling	2.04	2.14	1.98	2.38

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 motors)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

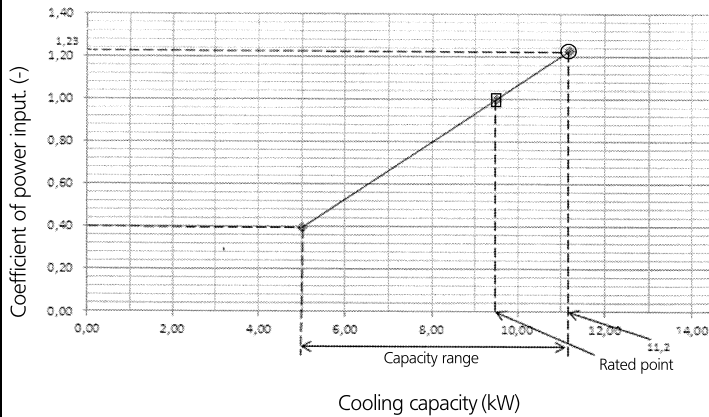
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG100LY1

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. = $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$.
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FUQ100B8	FAQ100C	FVQ100C
AFR	32.3	32	32	20	29	26	28
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.07)	(0.10)	(0.20)

(Triple)

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

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

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FUQ100B8	FAQ100C	FVQ100C
Cooling	2.15	2.45	2.44	2.49	2.46	2.63	2.49

(Triple)

	FCQG35Fx3	FFQ35B9Vx3	FBQ35C8x3	FHQ35B8x3
Cooling	2.38	2.44	2.51	2.97

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 motors)
 CPI: Coefficient of power input (-)

Caution:
TC and SHC are shown by kW.

(Twin)

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

(Twin)

	FCQG50Fx2	FFQ50B9Vx2	FBQ50C8x2	FHQ50B8x2
Cooling	2.32	2.44	2.51	2.97

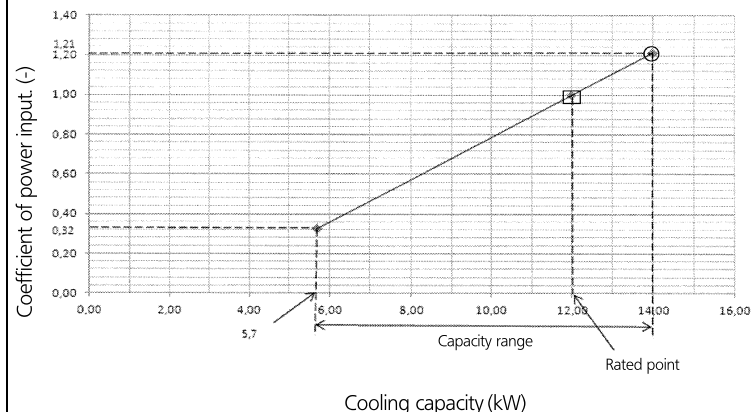
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG125LY1

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	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 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	FBQ125C8	FHQG125C	FUQ125B8	FDQ125C	FVQ125C
AFR	33.5	33	39	31	32	39	28
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.07)	(0.16)	(0.16)

(Triple)

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

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

(Pair)

	FCQH125F	FCQG125F	FBQ125C8	FHQG125C	FUQ125B8	FDQ125C	FVQ125C
Cooling	3.00	3.22	3.15	3.58	3.54	3.20	3.74

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Cooling	3.17	3.41	3.28	3.72

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 motors)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

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

(Double twin)

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

(Twin)

	FCQG60Fx2	FFQ60B9Vx2	FBQ60C8x2	FHQ60B8x2
Cooling	3.14	3.41	3.28	3.72

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Cooling	3.23	3.41	3.28	3.72

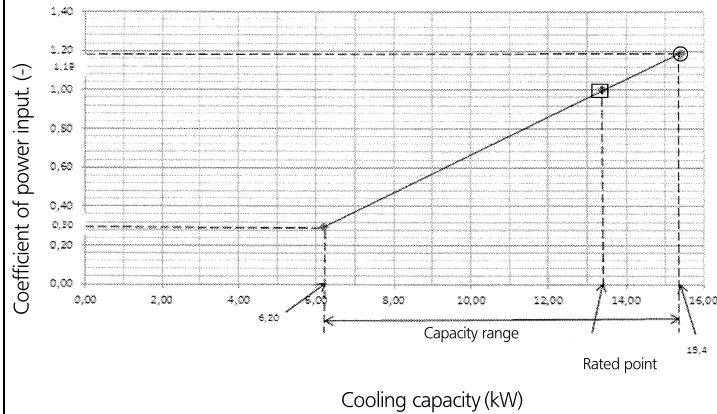
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6 Capacity tables

6 - 1 Cooling Capacity Tables

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:

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 motors)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Pair)

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

(Twin)

	FHQG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71Cx2	FAQ71Cx2	FUQ71B8x2
AFR	21.2x2	21.5x2	18x2	20.5x2	18x2	19x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)	(0.07x2)

(Triple)

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

(Double twin)

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

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

(Pair)

	FCQHG140F	FCQG140F	FBQ140C8	FHQG140C	FVQ140C
Cooling	4.00	4.17	4.02	4.05	4.17

(Twin)

	FHQG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71C8x2	FAQ71Cx2	FUQ71B8x2
Cooling	3.94	4.11	3.75	3.59	3.81	3.49

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Cooling	4.12	4.20	3.75	4.31

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Cooling	4.18	4.20	3.75	4.31

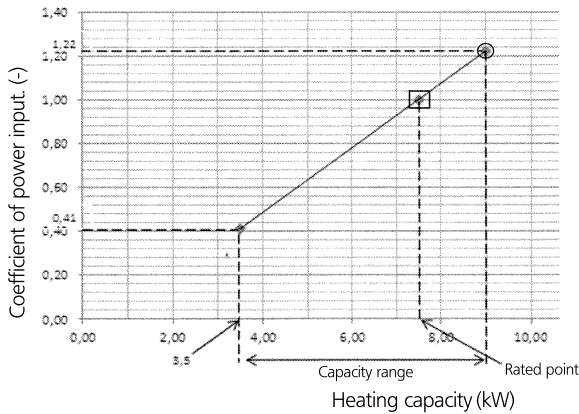
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG71LY1

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	6.49	1.83	7.09	1.93	7.53	2.01	7.81	2.07	9.00	1.13	9.71	1.19
18	6.48	1.91	7.07	2.01	7.52	2.09	7.80	2.15	9.00	1.17	9.71	1.23
20	6.47	1.99	7.07	2.09	7.51	2.17	7.79	2.23	9.00	1.22	9.71	1.28
21	6.47	2.03	7.07	2.13	7.51	2.21	7.79	2.28	9.00	1.24	9.71	1.31
22	6.46	2.06	7.06	2.17	7.50	2.25	7.78	2.32	9.00	1.27	9.71	1.33
24	6.46	2.14	7.05	2.25	7.49	2.33	7.78	2.40	9.00	1.31	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 \bigcirc show the max. at standard conditions.
On the figure the mark with \square show the rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.
SHC for other dry bulb temp. = SHC + SHC*.
SHC* = SHC correction for other dry bulb.
= $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$.
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are given in table below:

(Pair)

	FCQH71F	FCQ71F	FBQ71C8	FHQ71C	FUQ71B8	FAQ71C	FVQ71C
AFR	21.2	21.5	18	20.5	19	18	18
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.07)	(0.16)	(0.16)

(Twin)

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

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

(Pair)

	FCQH71F	FCQ71F	FBQ71C8	FHQ71C	FUQ71B8	FAQ71C	FVQ71C
Heating	1.56	1.89	2.05	1.82	1.84	2.03	2.06

(Twin)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
Heating	1.92	2.61	2.16	2.78

SYMBOLS

- AFR: Air flow rate (m³/min)
- BF: Bypass factor
- EWB: Entering wet bulb temp. (°CWB)
- EDB: Entering dry bulb temp. (°CDB)
- TC: Maximum Total cooling (heating) capacity (kW)
- SHC: Sensible heat capacity (kW)
- PI: Power input
- (comp.+indoor and outdoor fan motors)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

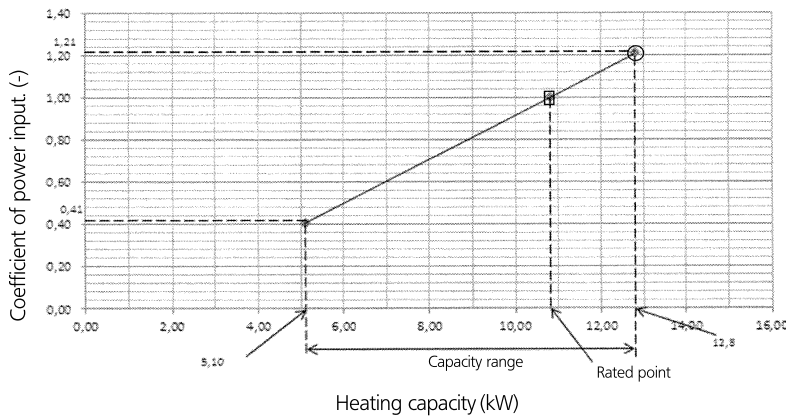
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG100LY1

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	8.66	1.60	9.61	1.69	10.2	1.76	10.4	1.81	12.8	1.12	13.8	1.17
18	8.65	1.66	9.61	1.76	10.2	1.83	10.4	1.89	12.8	1.16	13.8	1.22
20	8.63	1.73	9.60	1.83	10.2	1.90	10.4	1.96	12.8	1.21	13.8	1.27
21	8.63	1.77	9.59	1.86	10.2	1.94	10.4	2.00	12.8	1.23	13.8	1.29
22	8.62	1.80	9.59	1.90	10.2	1.97	10.4	2.03	12.8	1.25	13.8	1.32
24	8.62	1.87	9.58	1.97	10.2	2.05	10.4	2.11	12.8	1.30	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 \square show the max. at standard conditions. On the figure the mark with \circ show the max. capacity and rated coefficient of power input. However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.
SHC for other dry bulb temp. = SHC + SHC*.
SHC* = SHC correction for other dry bulb.
= $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$.
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FUQ100B8	FAQ100C	FVQ100C
AFR	32.3	32	32	20	29	26	28
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.07)	(0.10)	(0.20)

(Triple)

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

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

(Pair)

	FCQHG100F	FCQG100F	FBQ100C8	FHQG100C	FUQ100B8	FAQ100C	FVQ100C
Heating	2.16	2.60	2.57	2.60	2.73	3.00	2.61

(Triple)

	FCQG35Fx2	FFQ35B9Vx2	FBQ35C8x2	FHQ35B8x2
Heating	2.51	2.79	2.86	3.32

SYMBOLS

- AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EWB: Entering wet bulb temp.(°CWB)
 EDB: Entering dry bulb temp. (°CDB)
 TC: Maximum Total cooling (heating) capacity (kW)
 SHC: Sensible heat capacity (kW)
 PI: Power input
 (comp.+indoor and outdoor fan motors)
 CPI: Coefficient of power input. (-)

Caution:
 TC and SHC are shown by kW.

(Twin)

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

(Twin)

	FCQG50Fx2	FFQ50B9Vx2	FBQ50C8x2	FHQ50B8x2
Heating	2.46	2.79	2.86	3.32

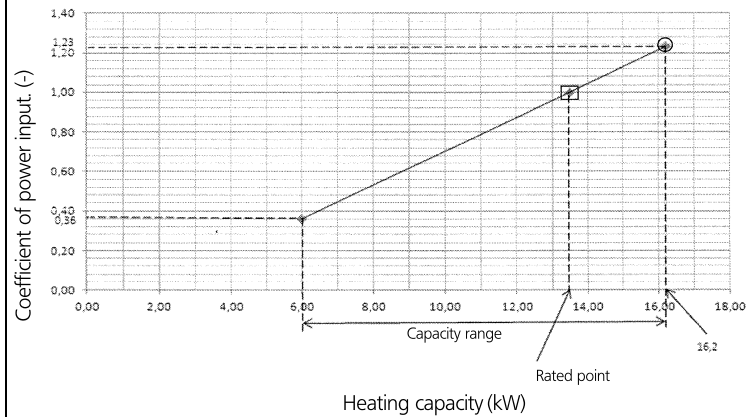
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG125LY1

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	11.1	1.60	12.1	1.70	12.8	1.77	13.3	1.82	16.2	1.14	17.5	1.20
18	11.1	1.67	12.1	1.77	12.8	1.84	13.3	1.90	16.2	1.18	17.5	1.24
20	11.0	1.74	12.0	1.84	12.8	1.91	13.3	1.97	16.2	1.23	17.5	1.29
21	11.0	1.78	12.0	1.87	12.8	1.95	13.3	2.01	16.2	1.25	17.5	1.32
22	11.0	1.81	12.0	1.91	12.8	1.98	13.3	2.04	16.2	1.28	17.4	1.34
24	11.0	1.88	12.0	1.98	12.8	2.06	13.3	2.12	16.2	1.32	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 (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 motors)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Pair)

	FCQHG125F	FCQG125F	FBQ125C8	FHQG125C	FUQ125B8	FDQ125C	FVQ125C
AFR	33.5	33	39	31	32	39	28
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.07)	(0.16)	(0.16)

(Twin)

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

(Triple)

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

(Double twin)

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

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

(Pair)

	FCQHG125F	FCQG125F	FBQ125C8	FHQG125C	FUQ125B8	FDQ125C	FVQ125C
Heating	3.07	3.72	3.53	3.48	3.95	3.53	3.65

(Twin)

	FCQG60Fx2	FFQ60B9Vx2	FBQ60C8x2	FHQ60B8x2
Heating	3.64	3.83	3.74	4.16

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Heating	3.66	3.83	3.74	4.16

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Heating	3.72	3.83	3.74	4.16

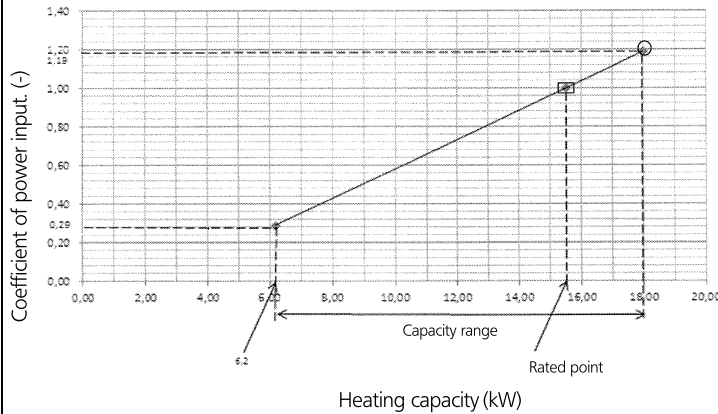
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6 Capacity tables

6 - 2 Heating Capacity Tables

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	1.46	12.7	1.53	13.5	1.59	14.0	1.63	18.0	1.10	19.4	1.16
18	11.6	1.52	12.7	1.59	13.5	1.65	14.0	1.70	18.0	1.14	19.4	1.21
20	11.6	1.55	12.7	1.64	13.5	1.71	14.0	1.77	18.0	1.19	19.4	1.25
21	11.6	1.59	12.7	1.68	13.5	1.75	14.0	1.80	18.0	1.22	19.4	1.28
22	11.6	1.62	12.7	1.71	13.5	1.78	14.0	1.83	18.0	1.24	19.4	1.30
24	11.6	1.68	12.6	1.77	13.4	1.84	14.0	1.90	18.0	1.29	19.4	1.35

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.
SHC for other dry bulb temp. = SHC + SHC*.
SHC* = SHC correction for other dry bulb.
= 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are given in table below:

(Pair)

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

(Triple)

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

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

(Pair)

	FCQHG140F	FCQG140F	FBQ140C8	FHQG140C	FVQ140C
Heating	3.77	4.30	4.30	4.27	4.30

(Triple)

	FCQG50Fx3	FFQ50B9Vx3	FBQ50C8x3	FHQ50B8x3
Heating	4.24	4.92	4.70	5.49

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 motors)
- CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71Cx2	FAQ71Cx2	FUQ71B8x2
AFR	21.2x2	21.5x2	18x2	20.5x2	18x2	19x2
(BF)	(0.2x2)	(0.14x2)	(0.08x2)	(0.13x2)	(0.16x2)	(0.07x2)

(Double twin)

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

(Twin)

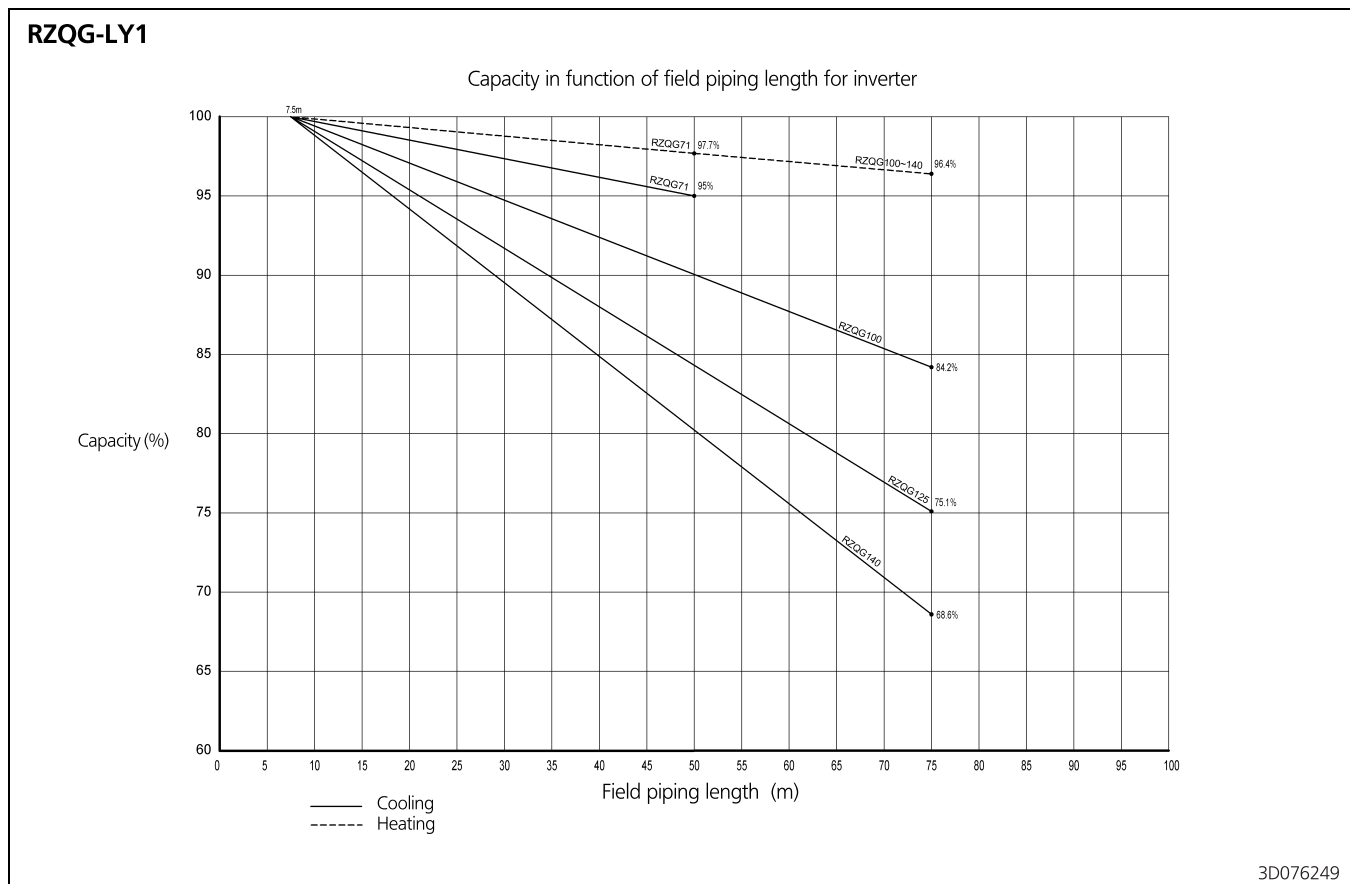
	FCQHG71Fx2	FCQG71Fx2	FBQ71C8x2	FHQG71Cx2	FAQ71Cx2	FUQ71B8x2
Heating	3.71	4.24	4.70	4.47	4.68	4.47

(Double twin)

	FCQG35Fx4	FFQ35B9Vx4	FBQ35C8x4	FHQ35B8x4
Heating	4.30	4.92	4.70	5.49

6 Capacity tables

6 - 3 Capacity Correction Factor

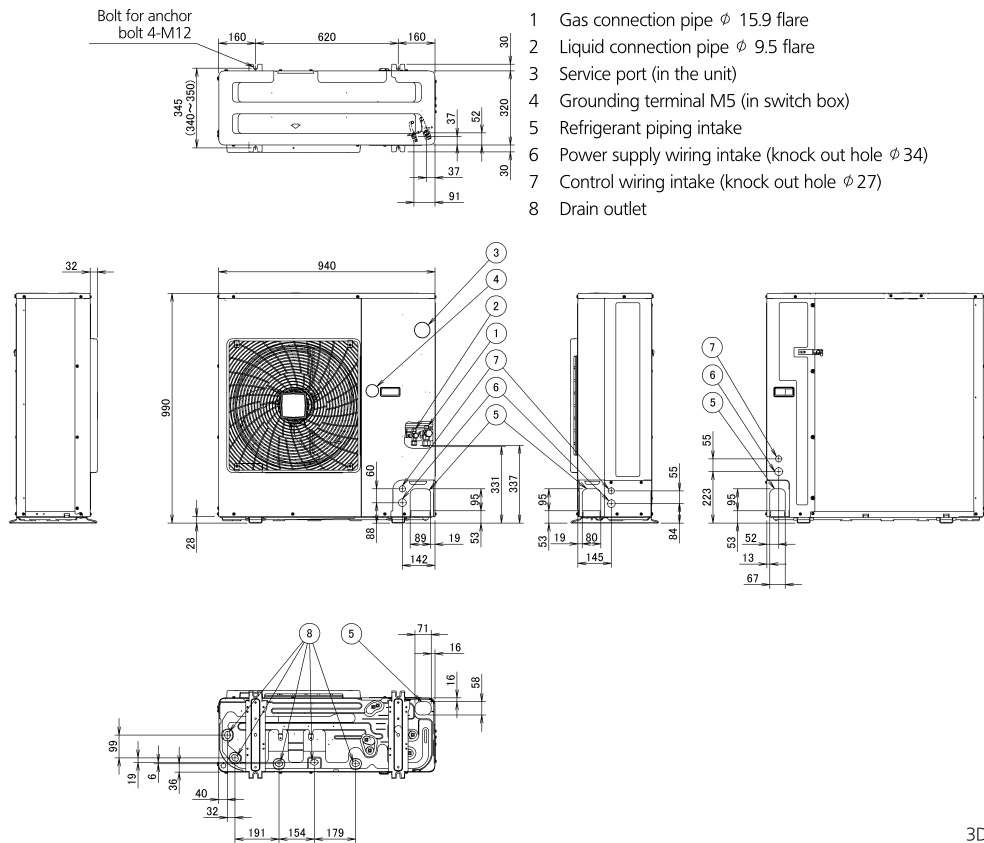


7 Dimensional drawings

7 - 1 Dimensional Drawings

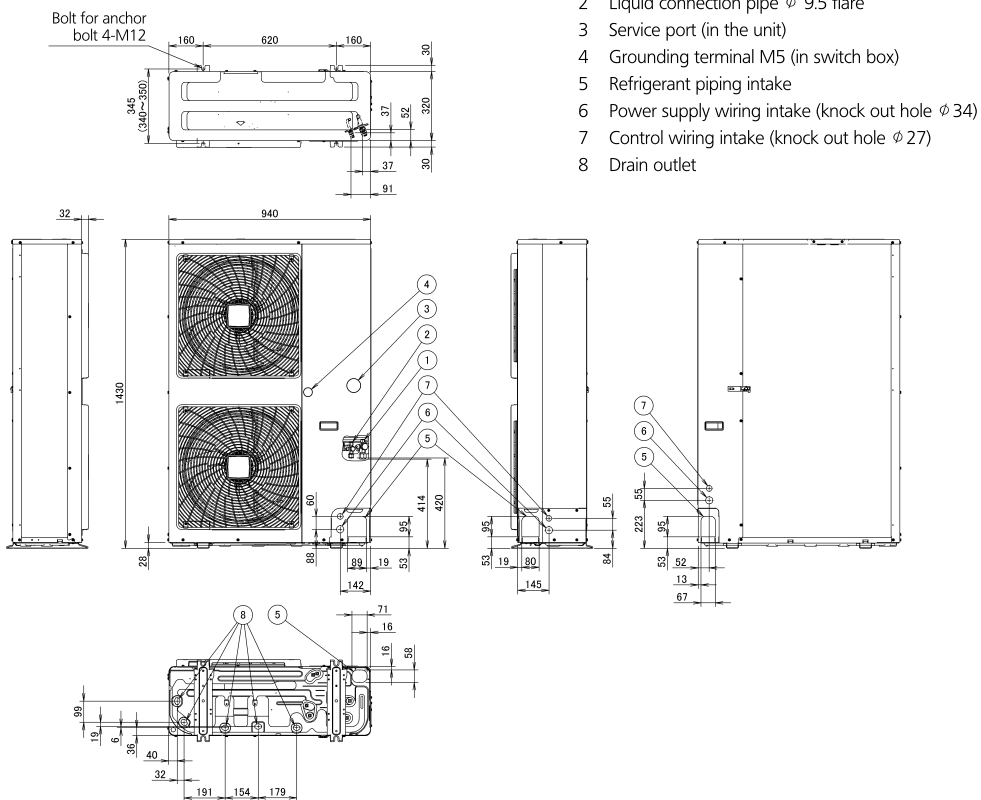
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RZQG71LY1



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RZQG100-140LY1

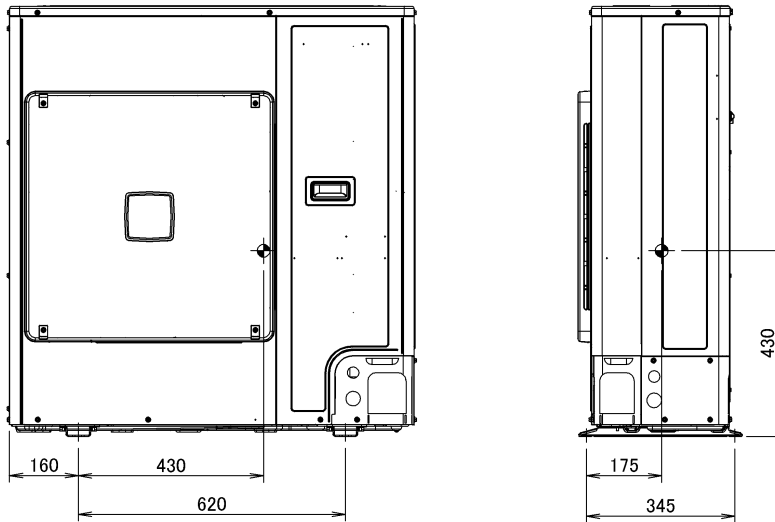


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8 Centre of gravity

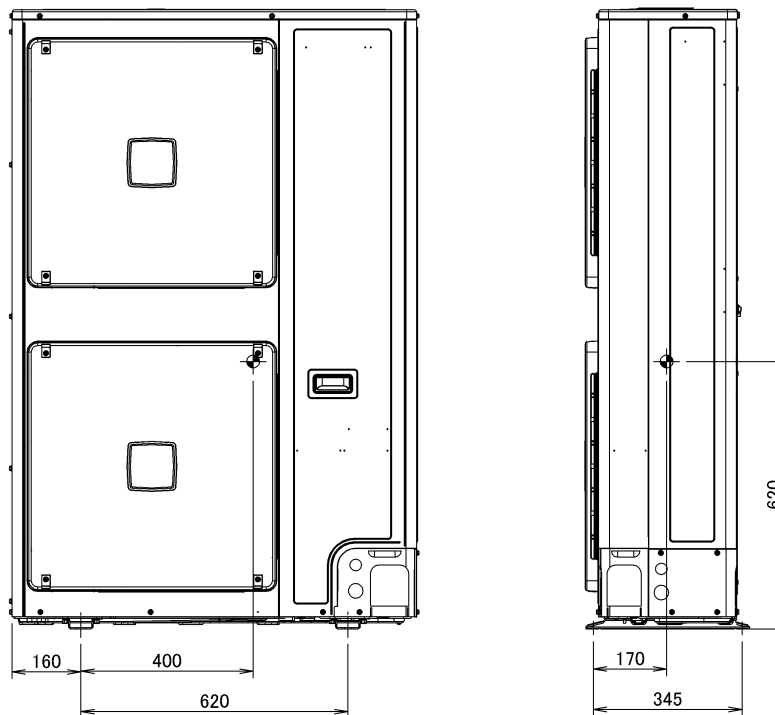
8 - 1 Centre of Gravity

RZQG71LY1



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RZQG100-140LY1

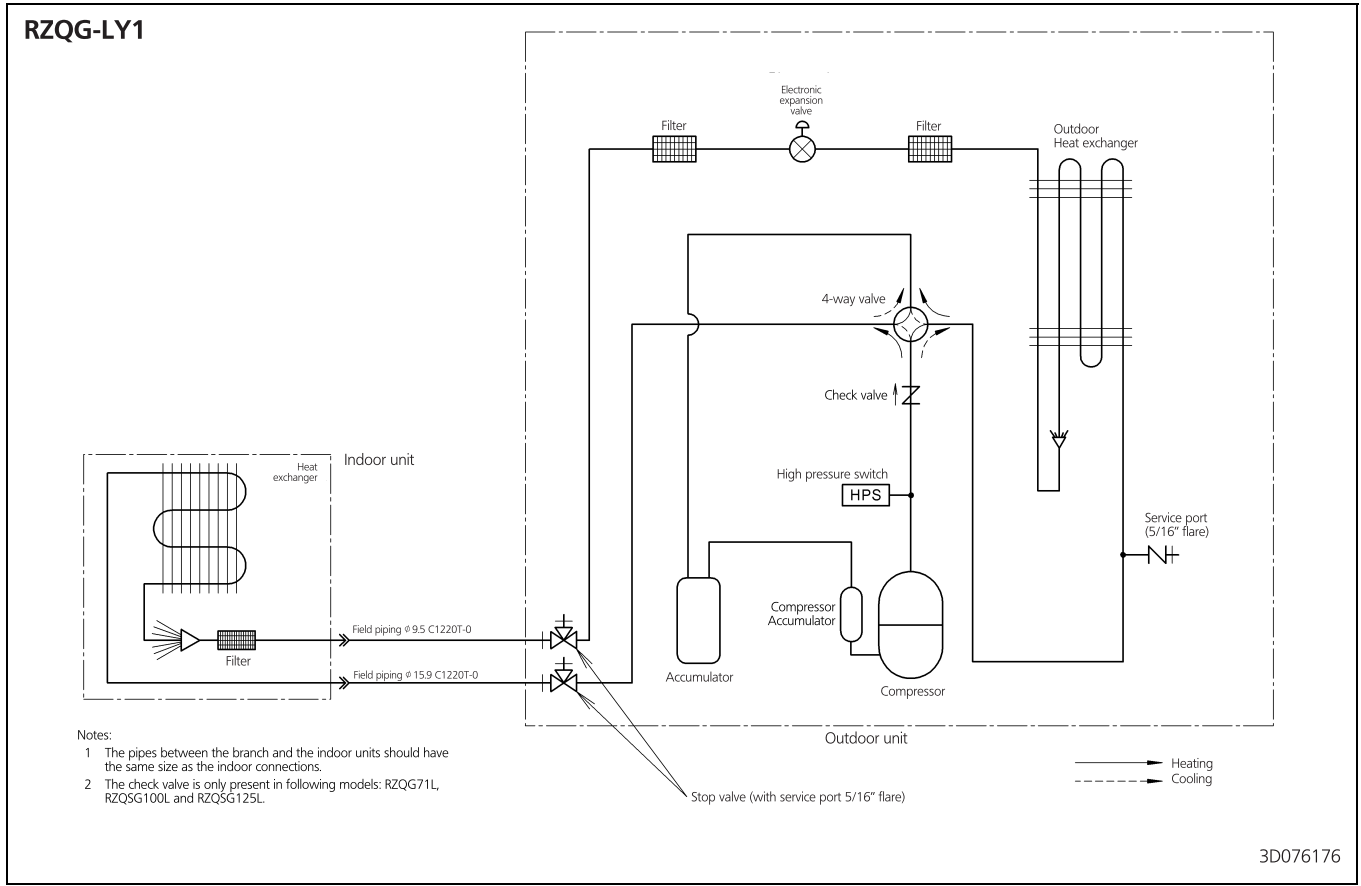


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9 Piping diagrams

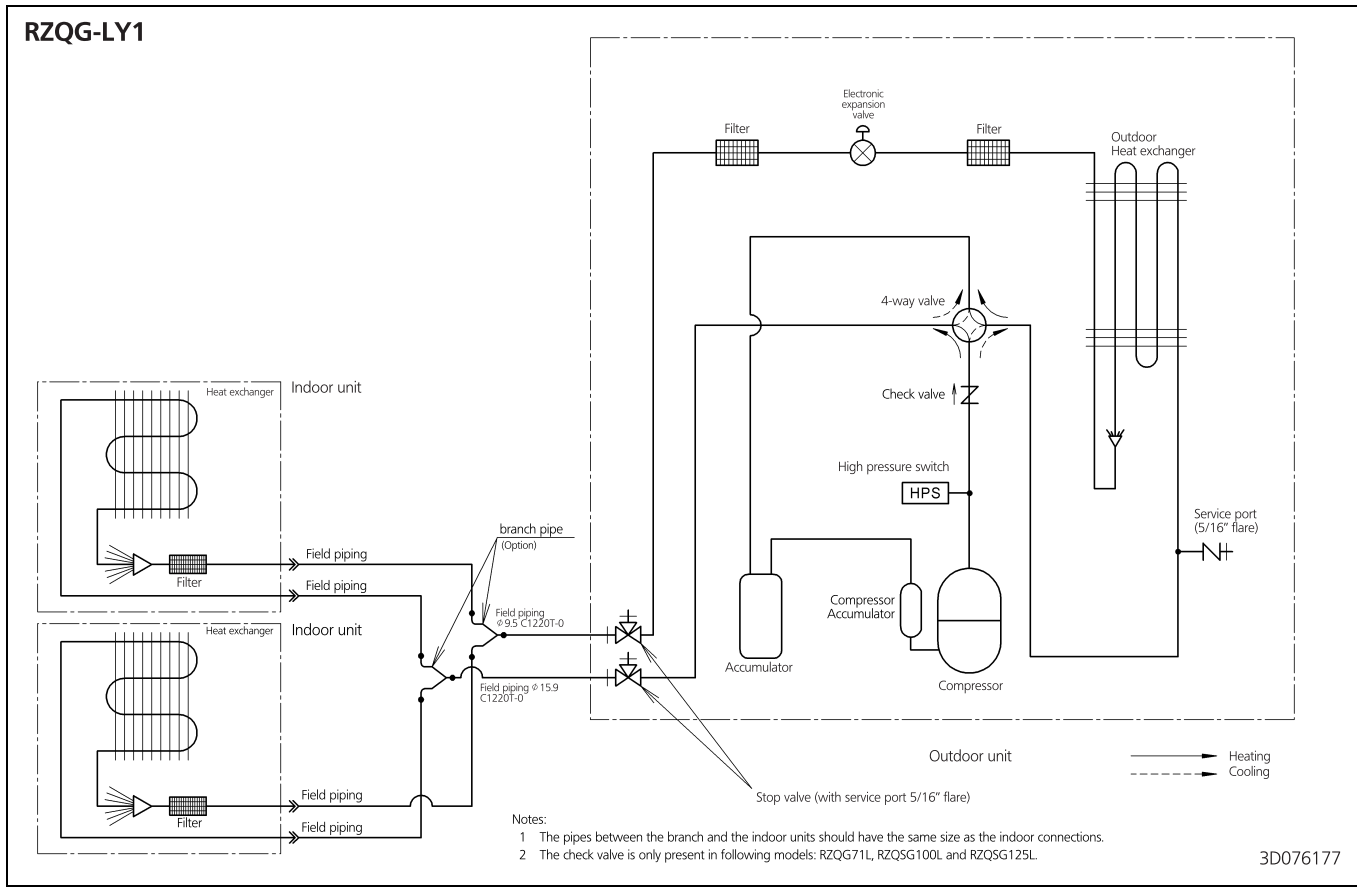
9 - 1 Piping Diagrams

9



9 Piping diagrams

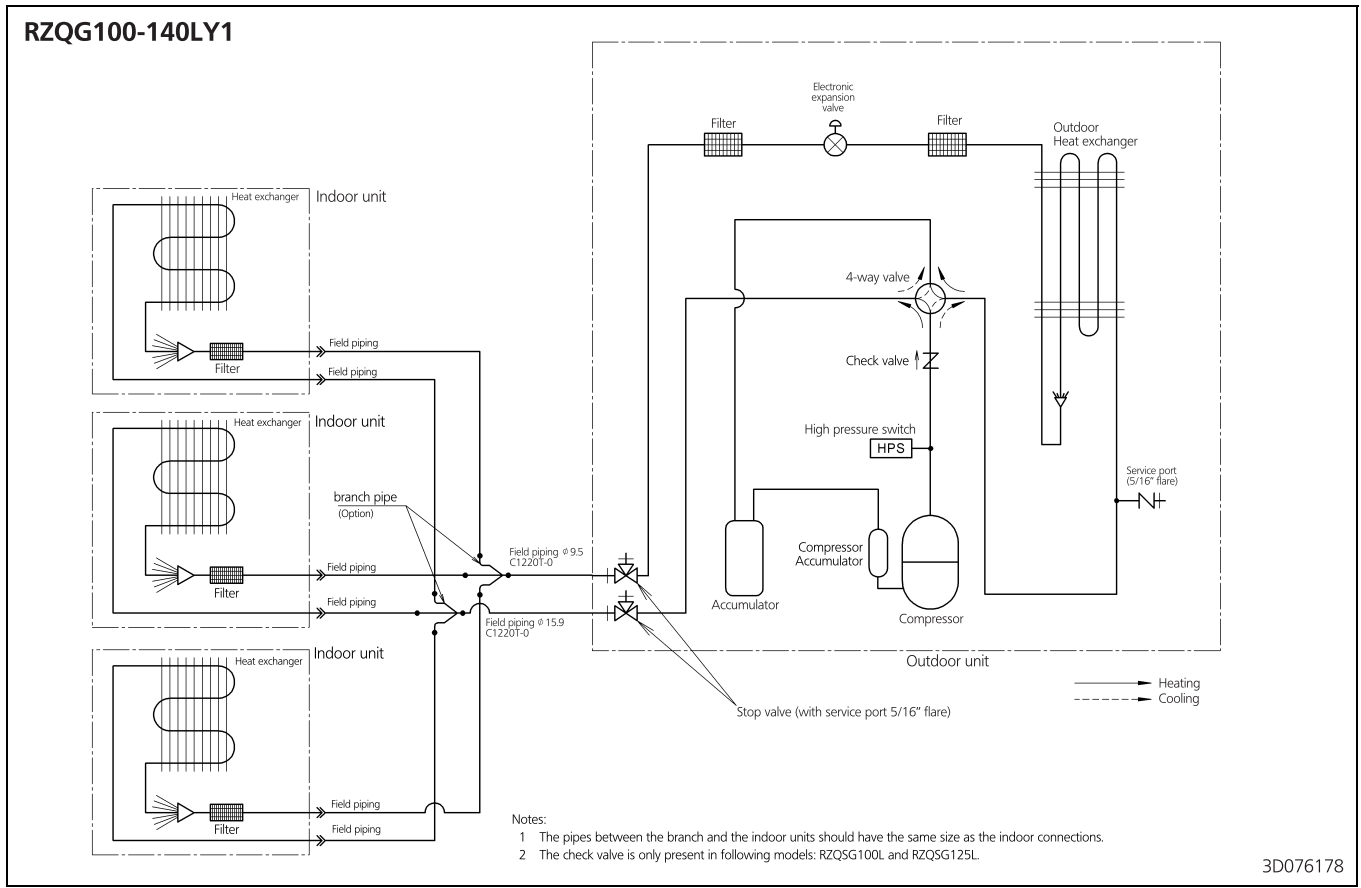
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

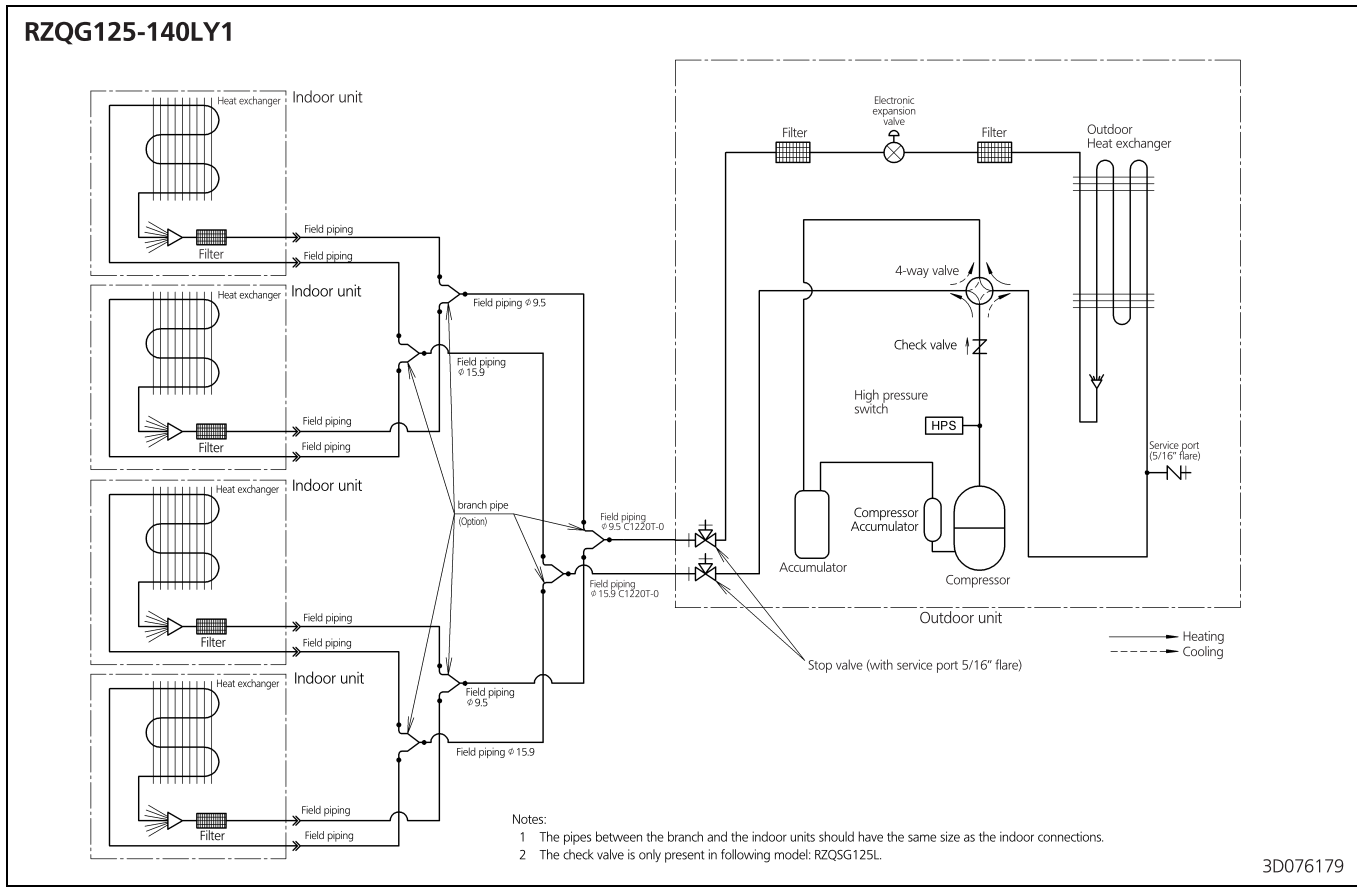
9 - 3 Piping Diagram Triple Application

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9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application



10 Wiring diagrams

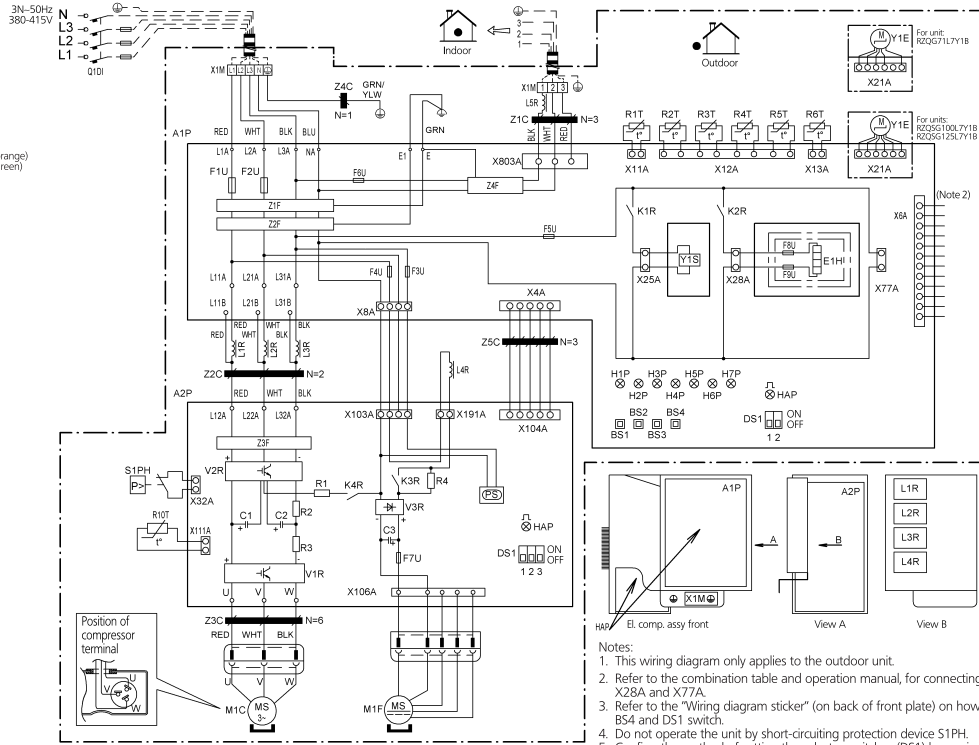
10 - 1 Wiring Diagrams - Three Phase

10

RZQG71LY1

- A1P : Printed circuit board (Inverter)
- A2P : Printed circuit board (Inverter)
- BS1-BS2 : Push button switch
- C1-C3 : Capacitor
- DS1(A1P) : Dip switch
- DS1(A2P) : Dip switch
- E1H : Bottomplate heater (Option)
- FU1 : Fuse (35.5A / 500V)
- F2U : Fuse (35.5A / 500V)
- F3U-F6U : Fuse (T 6.3A / 250V)
- F7U-F8U : Fuse (F 3.0A / 250V)
- F9U-F9U : Fuse (F 1.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- HAP(A1P/A2P) : Light emitting diode (service monitor green)
- K1R : Magnetic relay (Y15)
- K2R (A1P) : Magnetic relay (E1H Option)
- K2R (A2P) : Magnetic relay
- K4R : Magnetic relay
- L1R-L3R : Reactor
- L4R : Reactor (Outdoor fan motor)
- L5R : Reactor (Transmission line)
- M1C : Motor (compressor)
- M1F : Motor (fan)
- M1F : Motor (fan)
- PS : Switching power supply
- Q1DI : Earth leakage breaker (30mA)
- R1-R4 : Resistor
- R1T : Thermistor (air)
- R2T : Thermistor (discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Heat exchanger)
- R5T : Thermistor (Heat exchanger middle)
- R6T : Thermistor (liquid)
- R10T : Thermistor (fin)
- S1PH : Pressure switch (High)
- S1PH : Pressure switch (High)
- V2R, V3R : IGBT Power module
- V3R : Diode module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z5C : Noise filter (fermite core)
- Z1F-Z4F : Noise filter

- L: Live
- N: Neutral
- Field wiring
- Protective earth (screw)
- Noiseless earth
- Terminal
- Connection
- Terminal strip
- Connector
- Relay connector
- Option



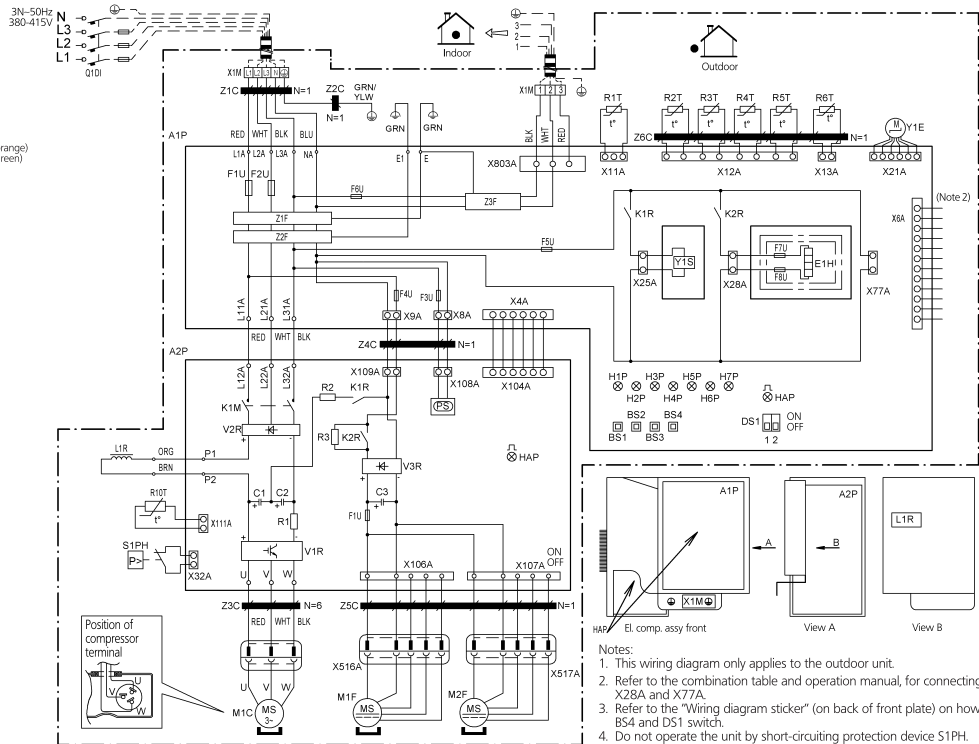
- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by short-circuiting protection device S1PH.
 5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".

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- A1P : Printed circuit board (Inverter)
- A2P : Printed circuit board (Inverter)
- BS1-BS2 : Push button switch
- C1-C3 : Capacitor
- DS1 : Dip switch
- E1H : Bottomplate heater (Option)
- FU1 : Fuse (31.5A / 250V)
- F2U : Fuse (31.5A / 250V)
- F3U-F6U : Fuse (T 6.3A / 250V)
- F7U-F8U : Fuse (F 3.0A / 250V)
- F9U (A2P) : Fuse (F 3.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- HAP(A1P/A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic relay
- K1R (A1P) : Magnetic relay (Y15)
- K2R (A1P) : Magnetic relay (E1H Option)
- K2R (A2P) : Magnetic relay
- L1R : Reactor
- M1C : Motor (compressor)
- M1F : Motor (fan) (upper)
- M2F : Motor (fan) (lower)
- PS : Switching power supply
- Q1DI : Earth leakage breaker (30mA)
- R1-R3 : Resistor
- R1T : Thermistor (air)
- R2T : Thermistor (discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Heat exchanger)
- R5T : Thermistor (Heat exchanger middle)
- R6T : Thermistor (liquid)
- R10T : Thermistor (fin)
- S1PH : Pressure switch (High)
- S1PH : Pressure switch (High)
- V2R, V3R : IGBT Power module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z6C : Noise filter (fermite core)
- Z1F-Z3F : Noise filter

- L: Live
- N: Neutral
- Field wiring
- Protective earth (screw)
- Noiseless earth
- Terminal
- Connection
- Terminal strip
- Connector
- Relay connector
- Option

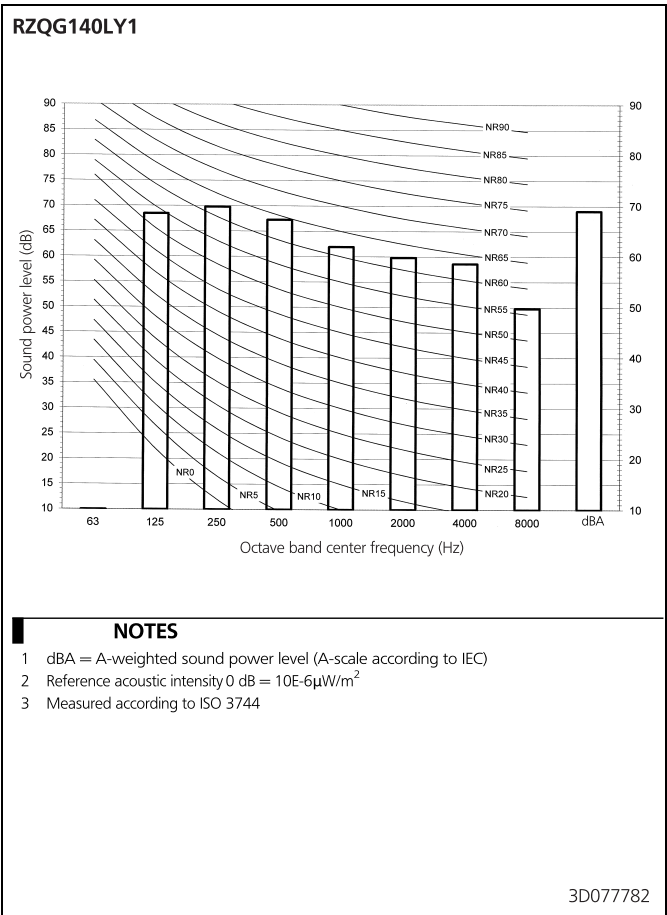
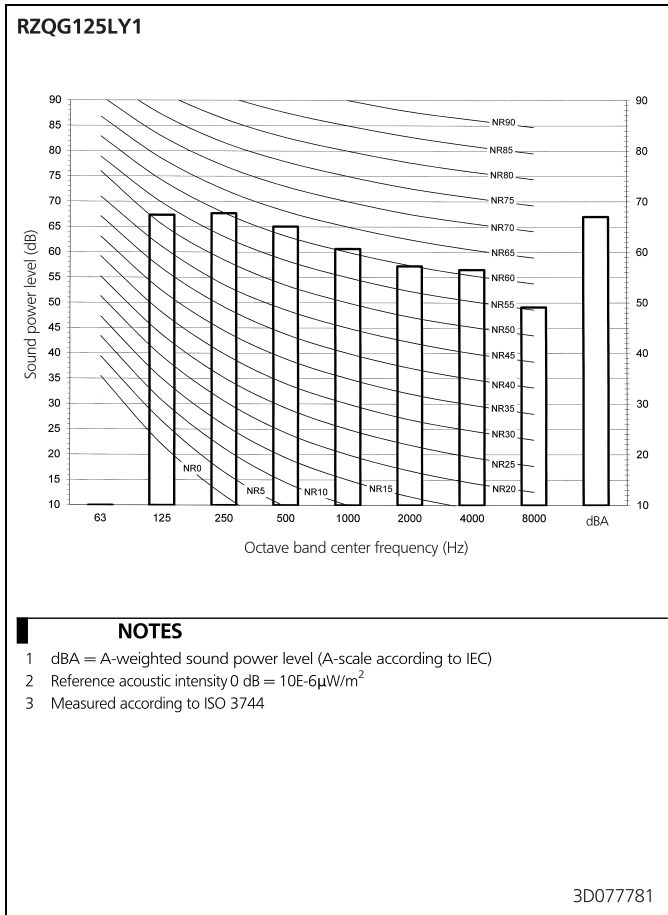
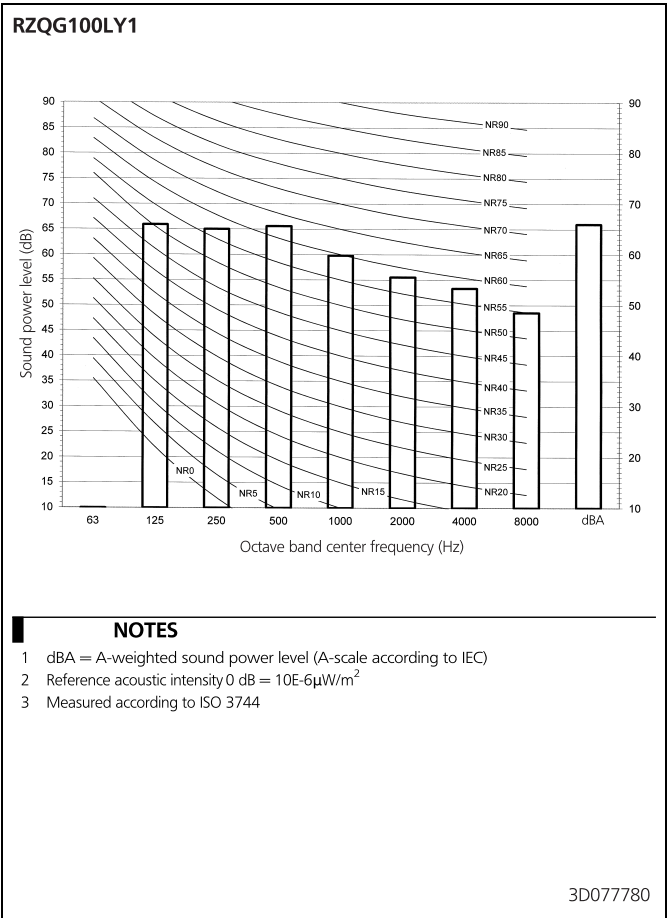
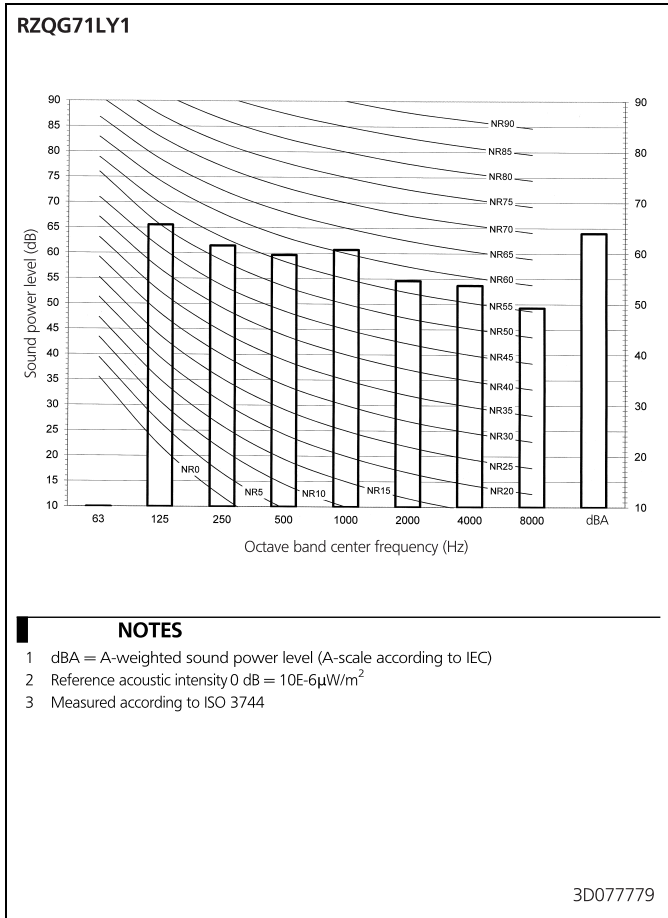


- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by short-circuiting protection device S1PH.
 5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".

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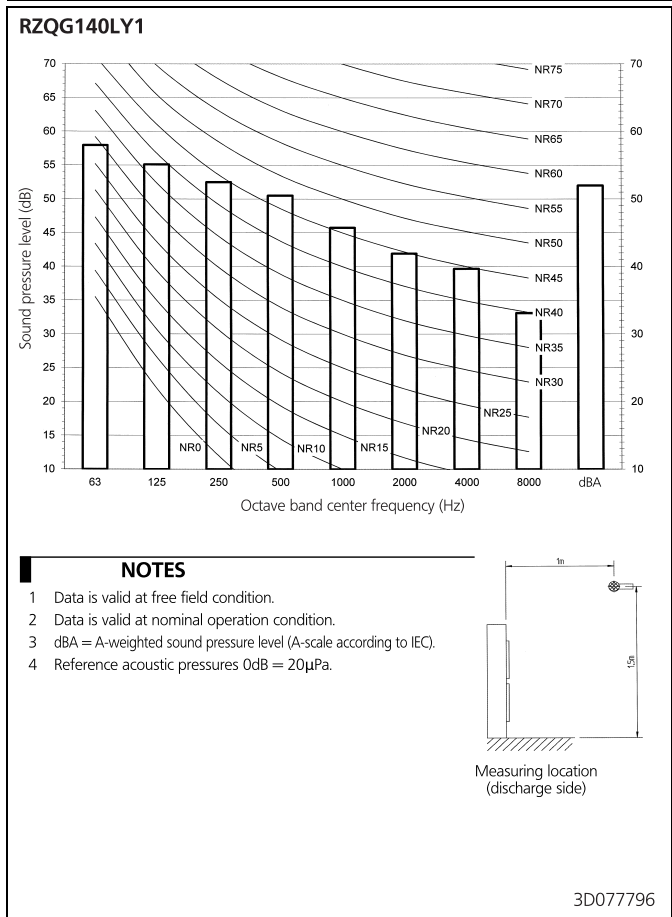
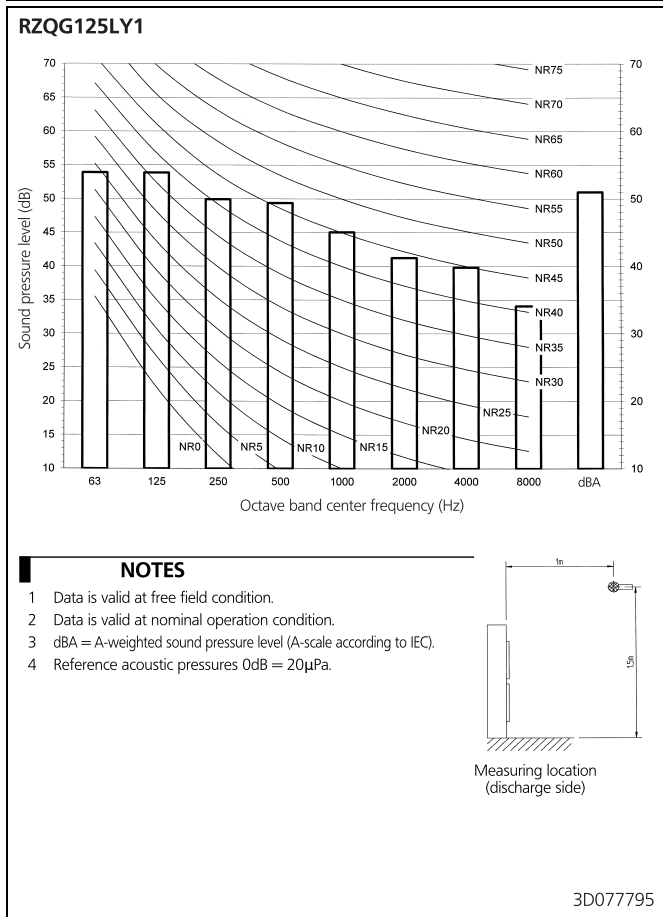
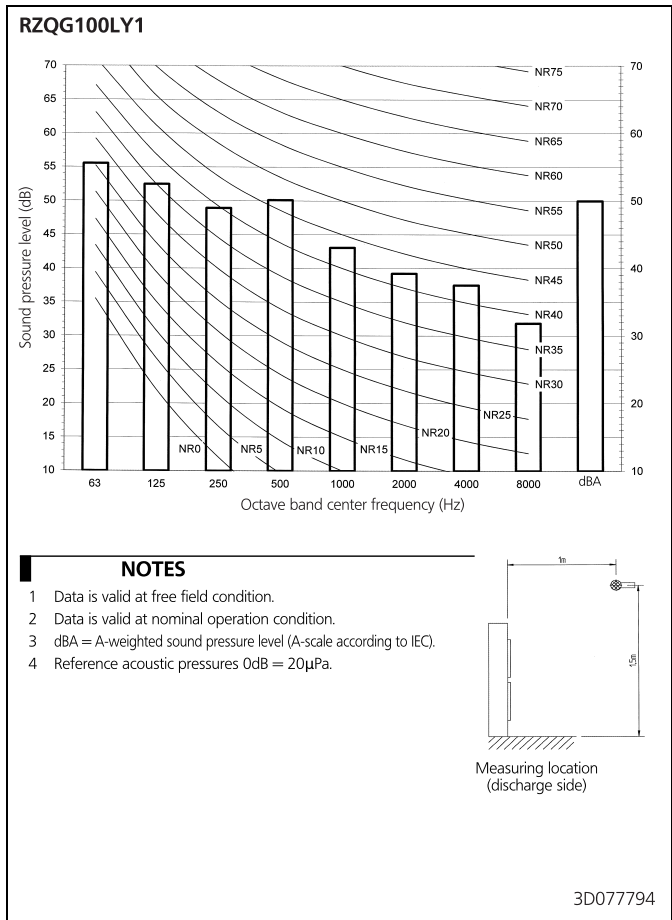
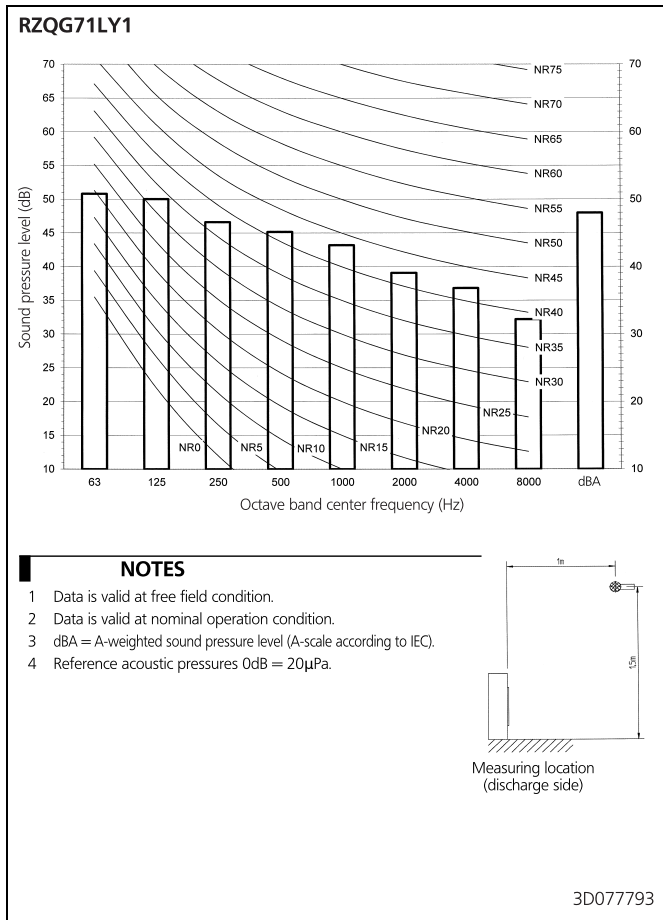
11 Sound data

11 - 1 Sound Power Spectrum



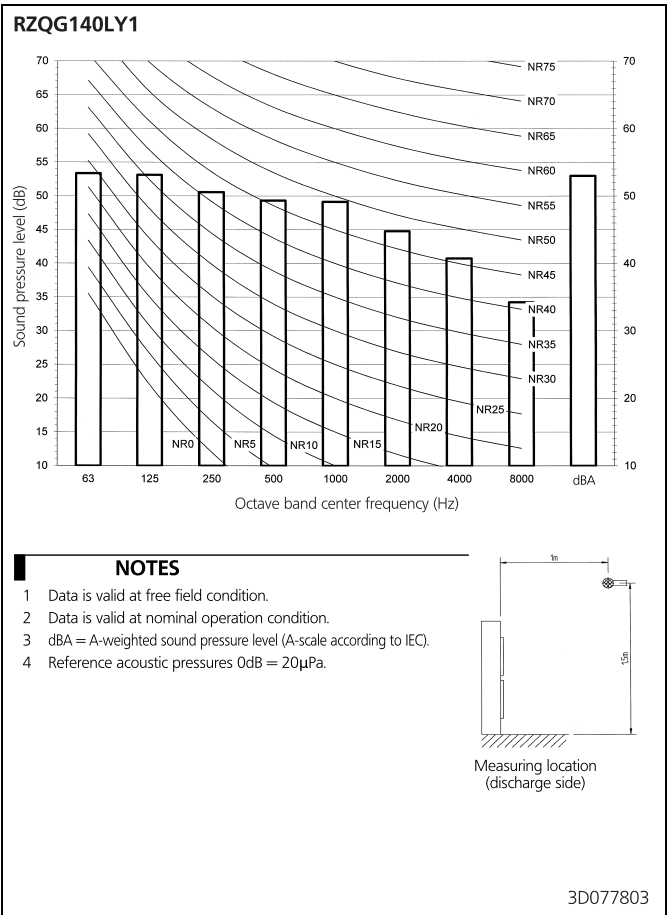
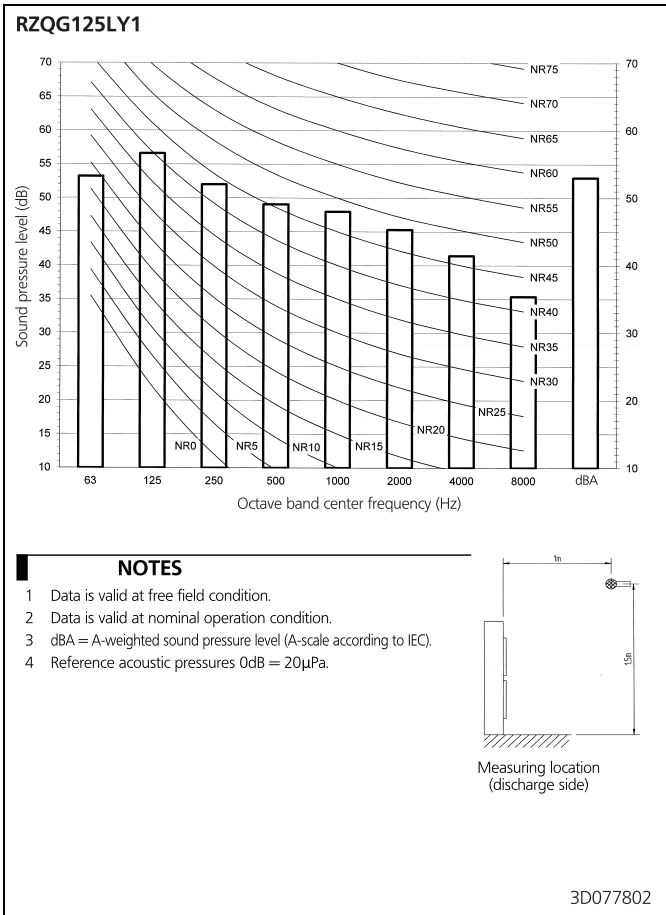
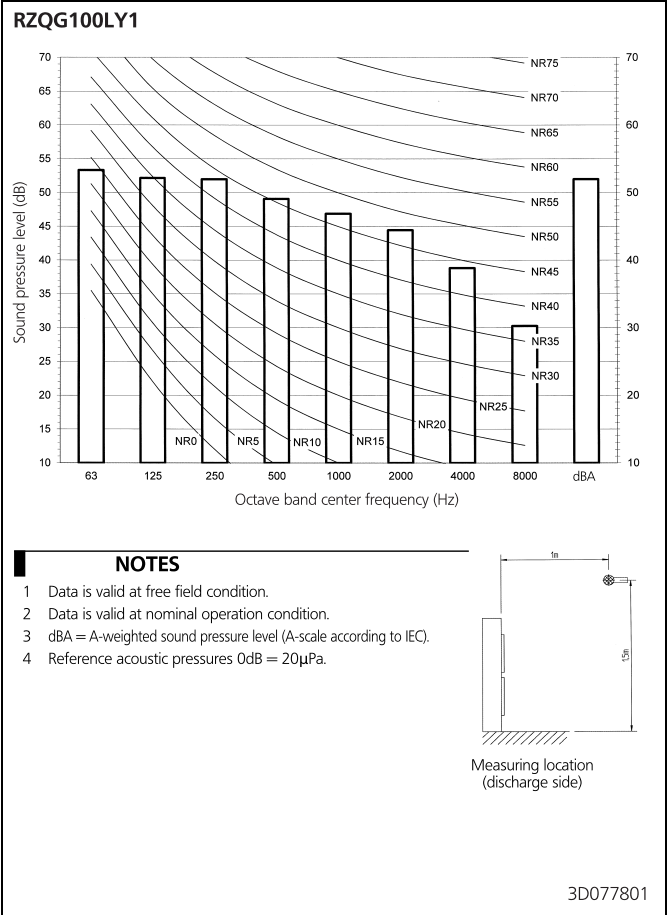
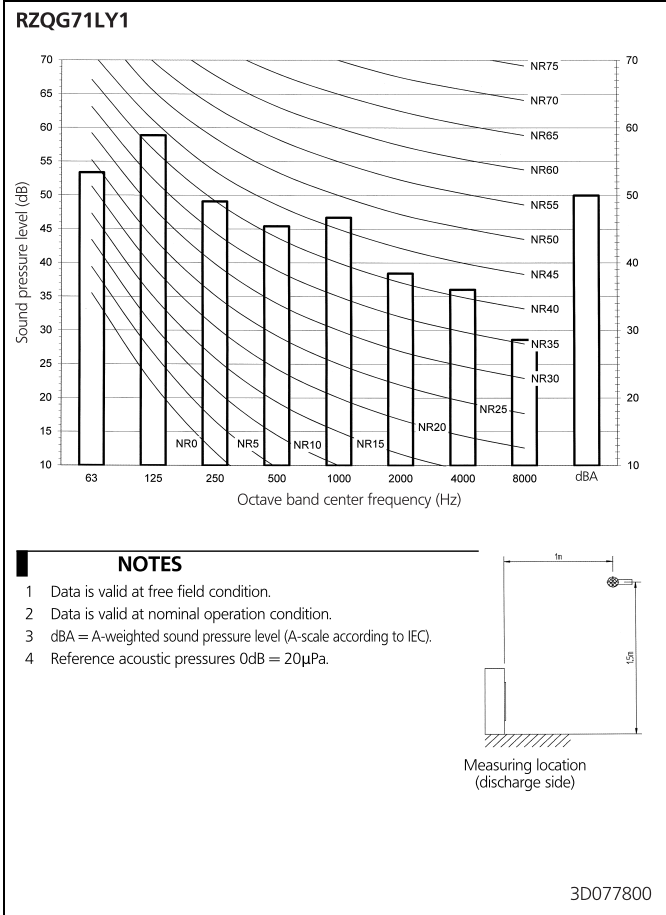
11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

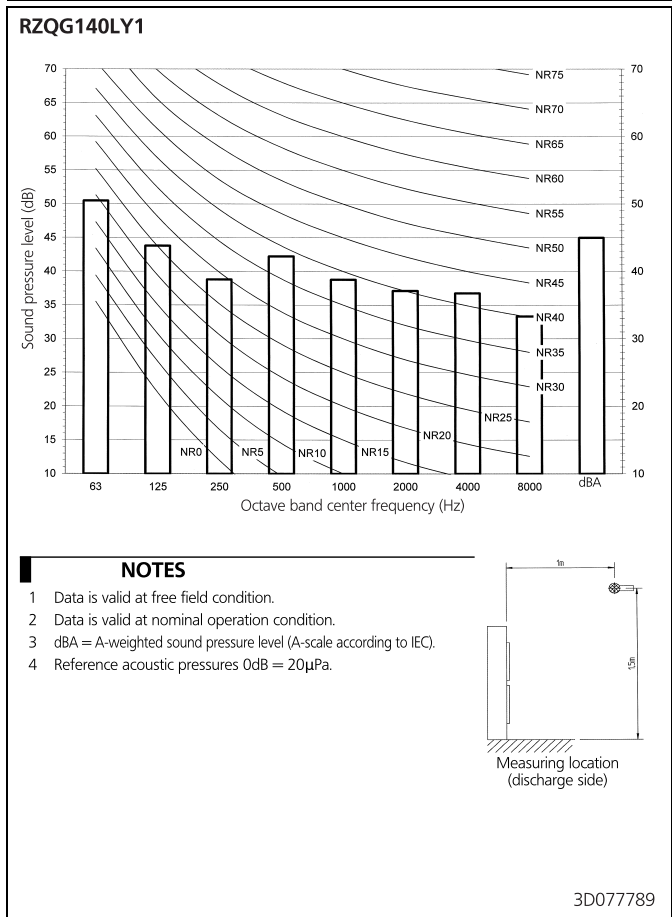
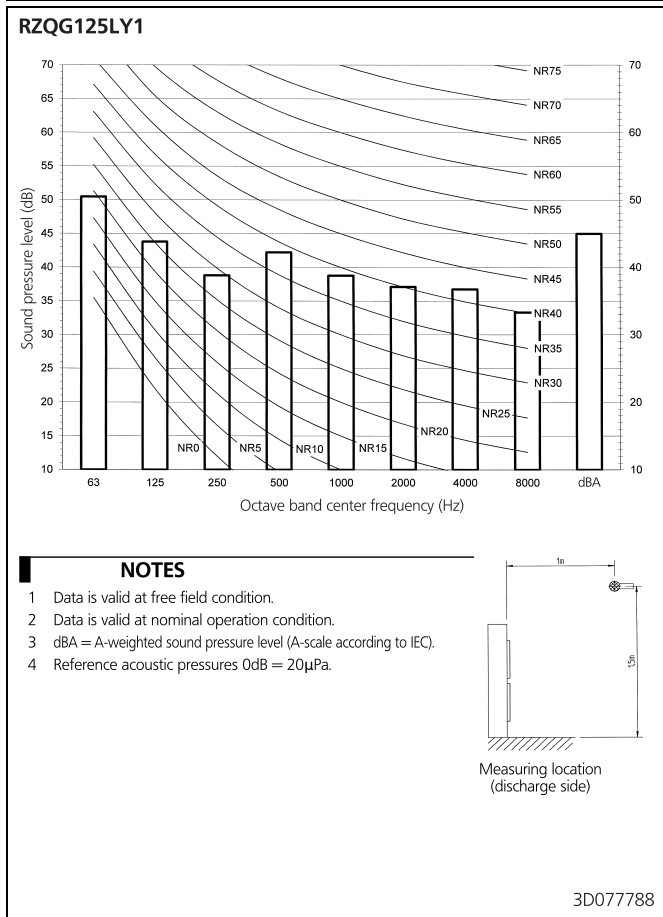
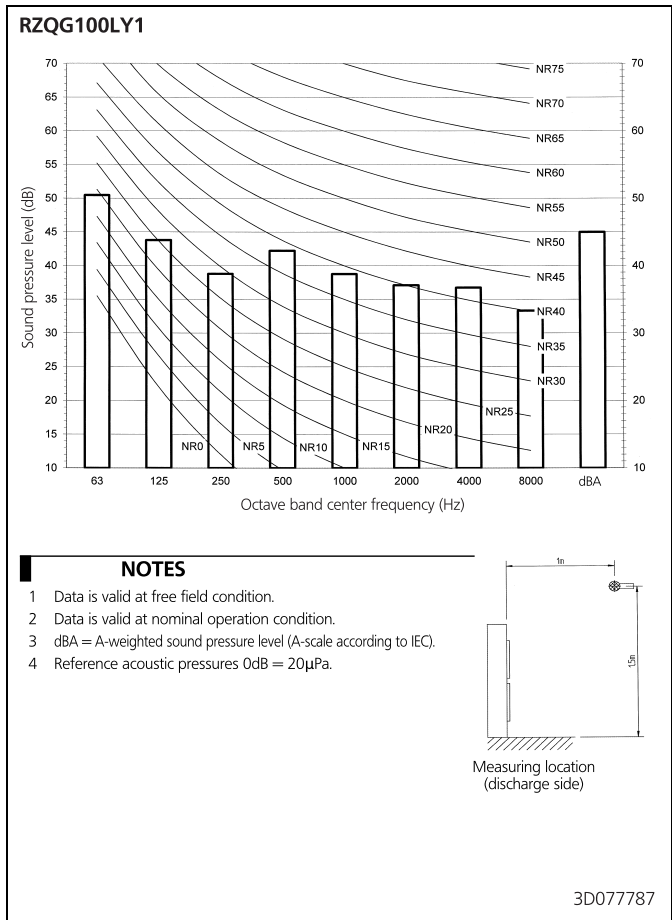
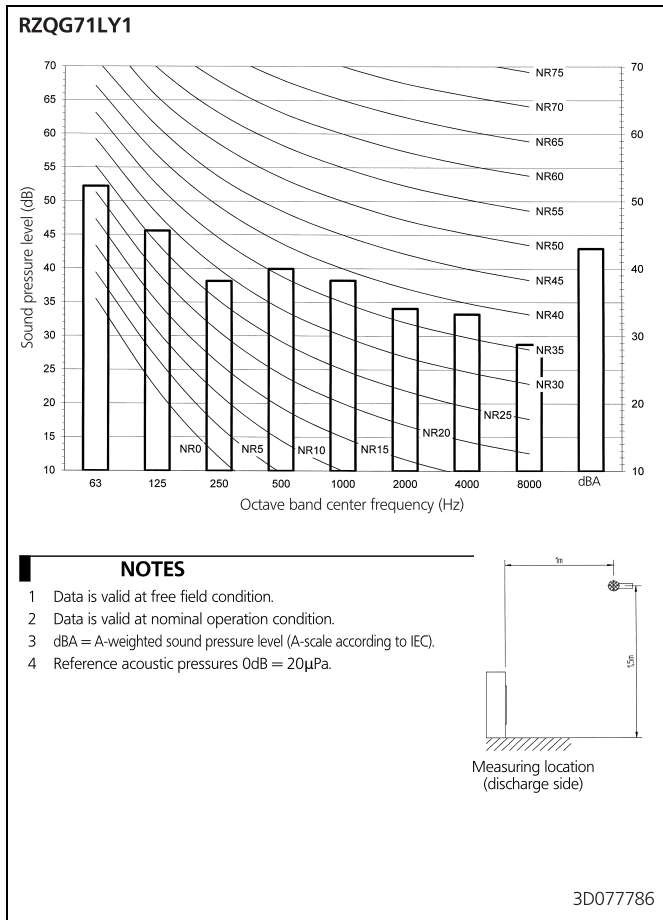
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

11



12 Installation

12 - 1 Installation Method

RZQG-LY1

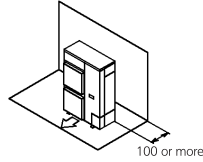
Installation service space

The measure of these values is "mm".

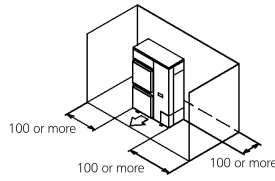
(A) When there are obstacles on suction sides.

• **No obstacle above**

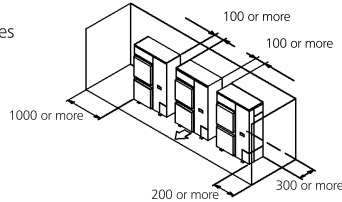
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

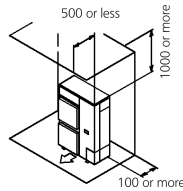


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

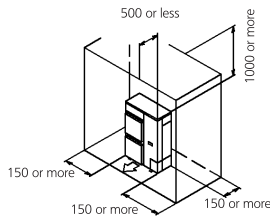


• **Obstacle above, too.**

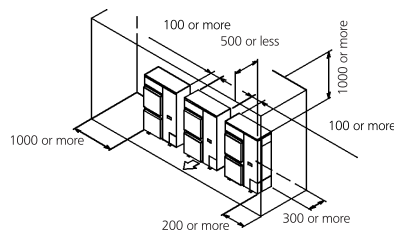
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



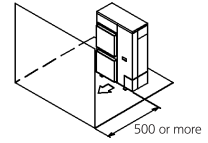
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



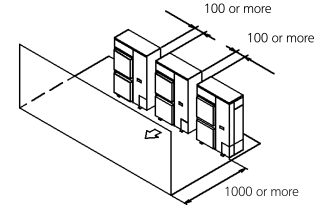
(B) When there are obstacles on discharge sides.

• **No obstacle above**

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

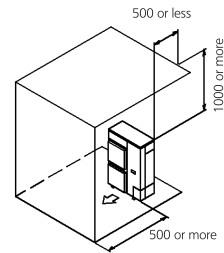


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

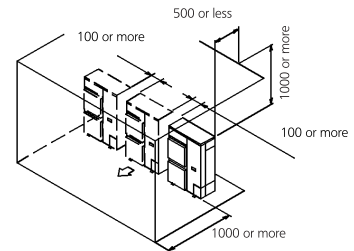


• **Obstacle above, too**

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



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



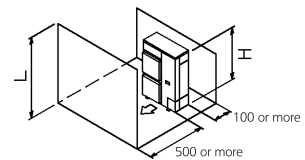
(C) When there are obstacles on both suction and discharge sides.

Pattern 1

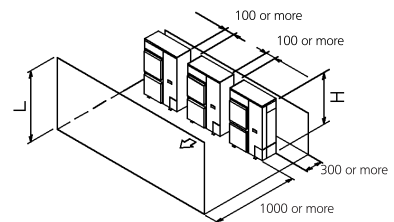
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• **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

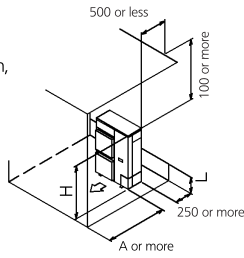
RZQG-LY1

• Obstacle above, too

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

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

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

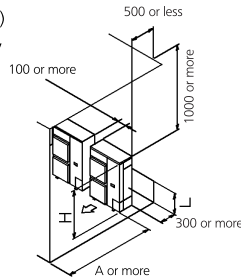


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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

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

Limit of series installation is 2 units.

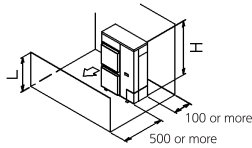


Pattern 2

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

• No obstacle above

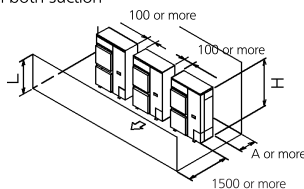
- ① Stand-alone installation
 - No obstacle above



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

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

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

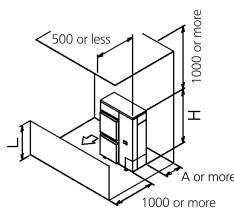


• Obstacle above, too

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

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

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



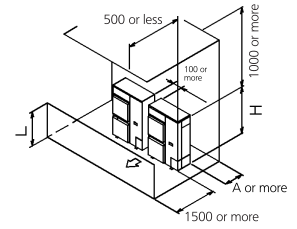
- ② Series installation (2 or more) (Note 1, 2)

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

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

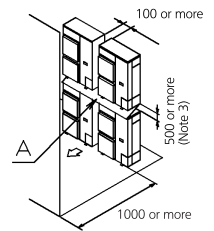
	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 300 or more
$L > H$	Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

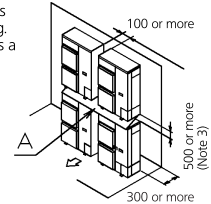


(D) Double-decker installation

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

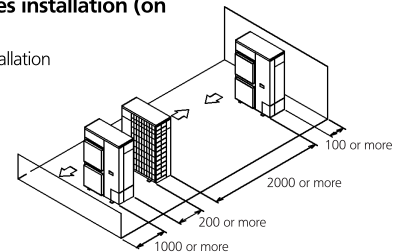


- ② Obstacle on the suction side. (Note 1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient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



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

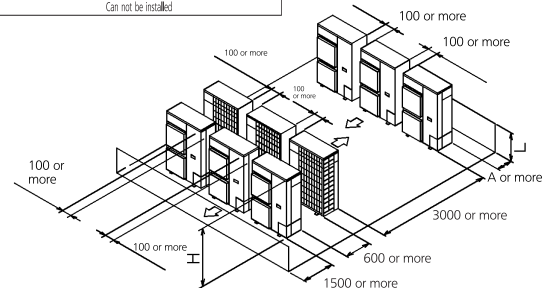
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

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

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



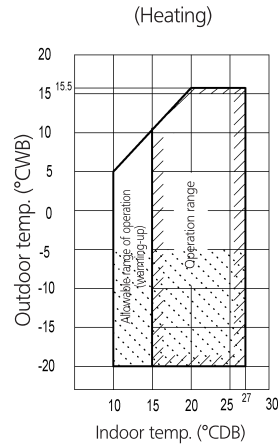
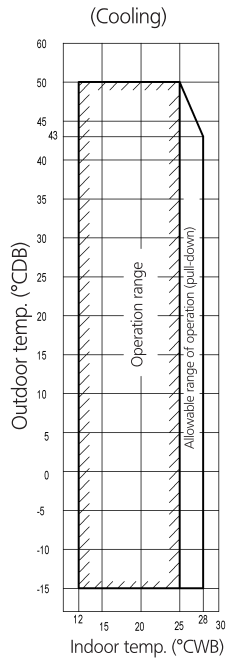
NOTES

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

13 Operation range

13 - 1 Operation Range

RZQG-LY1

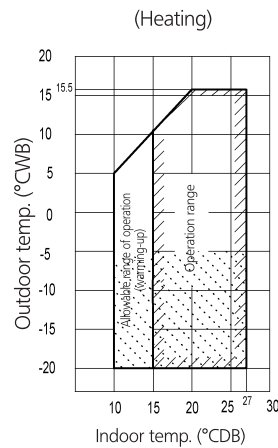
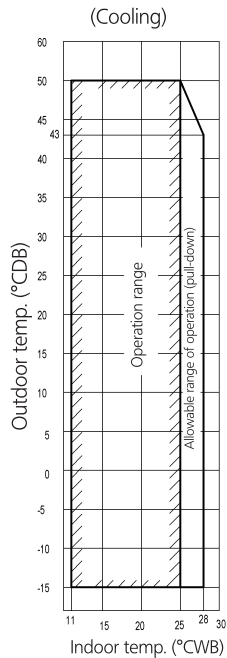


Notes:

- 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 [stippled] operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

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RZQG-LY1 - 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 [stippled] operation range with 100% humidity, it is advisable to install the optional bottom plate heater.

3D076503

In all of us,
a green heart



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



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