

Air Conditioning
Technical Data

RZQG-L(8)Y1



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RZQG-L(8)Y1

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1 Features

Industry leading technology for commercial applications and even for technical rooms

- Top efficiency: - energy labels up to A++ in both cooling and heating - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - 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 high sensible, infrastructure cooling applications
- Replace existing R-22 or R-407C systems without having to replace the piping
- Extended operation range down to -20°C in heating and down to -15°C in cooling
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Maximum piping length up to 75m, minimum piping length is 5m.
- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.



Infrastructure cooling



Inverter



Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input				FAQ71C9/RZQG71L8Y1	FAQ100C9/RZQG100L8Y1	FAQ100C9/RZQG71L8Y1	
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	6.80	
		SEER		6.43	6.11	6.51	
		Annual energy consumption	kWh	371	545	366	
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	6.33	10.20	6.33	
		SCOP/A		4.02	4.01	4.02	
		Annual energy consumption	kWh	2,205	3,562	2,205	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	66	64
	Sound power level indoor	Cooling	Nom.	dBA	61	65	
Nominal efficiency	EER			3.40	3.62	-	
	COP			3.70	3.61	-	
	Annual energy consumption		kWh	1,000 (1)	1,315	-	
	Energy label	Cooling		A			
		Heating		A			

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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

SEER and SCOP are according to EN 14825

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

2-2 Capacity and Power input				FBQ71D/ RZQG71L8Y1	FBQ100D/ RZQG100L8Y1	FBQ125D/ RZQG125L8Y1	FBQ140D/ RZQG140L8Y1	FBQ100D/ RZQG71L8Y1	FBQ140D/ RZQG100L8Y1	FBQ140D/ RZQG125L8Y1
Indoor unit				FBQ71D	FBQ100D	FBQ125D	FBQ140D	FBQ100D		
Outdoor unit				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140L8Y1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1
Cooling capacity	Nom.		kW	6.8 (1)	9.5 (1)	12.0 (1)	13.4 (1)	-		
Heating capacity	Nom.		kW	7.50 (1)	10.80 (1)	13.50 (1)	15.50 (1)	-		
Power input	Cooling	Nom.	kW	1.89 (1)	2.49 (1)	3.63 (1)	4.00 (1)	-		
	Heating	Nom.	kW	1.87 (1)	2.45 (1)	3.46 (1)	4.31 (1)	-		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	A+	A++	-	A++	A+	A++
		Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00
		SEER		6.16	5.87	6.11	-	6.16	5.87	6.11
		Annual energy consumption	kWh	386	566	687	-	386	566	687
	Heating (Average climate)	Energy label		A+	A++	A+	-	A+	A++	A+
		Pdesign	kW	6.00	11.30	12.70	-	6.00	11.30	12.70
		SCOP/A		4.31	4.78	4.28	-	4.31	4.78	4.28
		Annual energy consumption	kWh	1,949	3,310	4,154	-	1,949	3,310	4,154
Nominal efficiency	EER			3.60 (2)	3.81 (2)	3.31 (2)	3.35 (2)	-		
	COP			4.01 (2)	4.41 (2)	3.90 (2)	3.60 (2)	-		
	Annual energy consumption		kWh	944	1,247	1,813	-			
	Energy label	Cooling		A			-			
		Heating		A			-			

2 Specifications

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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

2

2-3 Capacity and Power input				FCQG71F/ RZQG71L8Y1	FCQG100F/ RZQG100L8Y1	FCQG125F/ RZQG125L8Y1	FCQG100F/ RZQG71L8Y1	FCQG140F/ RZQG100L8Y1	FCQG140F/ RZQG140LY1	FCQG140F/ RZQG125L8Y1	
Indoor unit				FCQG71F	FCQG100F	FCQG125F	FCQG100F	FCQG140F			
Outdoor unit				RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1	RZQG71L8 Y1	RZQG100L 8Y1	RZQG140L Y1	RZQG125L 8Y1	
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+	A++		-	A+	
		Pdesign	kW	6.80	9.5	12	6.80	9.50	-	12.00	
		SEER			6.72	6.8	6	6.80		-	6.00
		Annual energy consumption		kWh	355	489	700	350	489	-	700
	Heating (Average climate)	Energy label			A+	A++	A+		A++	-	A+
		Pdesign	kW	6.33	11.3	12.66	6.33	11.30	-	12.66	
		SCOP/A			4.20	4.61	4.1	4.20	4.61	-	4.10
		Annual energy consumption		kWh	2,110	3,432	4,323	2,110	3,432	-	4,323
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	64	-					
	Sound power level indoor	Cooling	Nom.	dB(A)	51	-					
Nominal efficiency	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	-				
	Energy label	Cooling		A			-				
Heating		A			-						

Notes

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

SEER and SCOP are according to EN 14825

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

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-4 Capacity and Power input				FCQHG71F/ RZQG71L8Y1	FCQHG100F/ RZQG100L8Y1	FCQHG125F/ RZQG125L8Y1	FCQHG140F/ RZQG140LY1	FCQHG100F/ RZQG71L8Y1	FCQHG140F/ RZQG100L8Y1	FCQHG140F/ RZQG125L8Y1
Indoor unit				FCQHG71F	FCQHG100 F	FCQHG125 F	FCQHG140 F	FCQHG100 F	FCQHG140F	
Outdoor unit				RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1	RZQG140L Y1	RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1
Cooling capacity	Nom.	kW		6.80	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	-		

2 Specifications

2-4 Capacity and Power input				FCQHG71F/ RZQG71L8Y1	FCQHG100F/ RZQG100L8Y 1	FCQHG125F/ RZQG125L8Y 1	FCQHG140F/ RZQG140L8Y 1	FCQHG100F/ RZQG71L8Y1	FCQHG140F/ RZQG100L8Y 1	FCQHG140F/ RZQG125L8Y 1
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			-	A++		
		Pdesign	kW	6.80	9.5	12	-	6.80	9.50	12.00
		SEER		6.91	7	6.61	-	7.00		6.61
		Annual energy consumption	kWh	345	475	636	-	340	475	636
	Heating (Average climate)	Energy label		A+	A++		-	A+	A++	
		Pdesign	kW	7.60	11.3	12.66	-	7.60	11.30	12.66
		SCOP/A		4.54	4.8	4.63	-	4.54	4.80	4.63
		Annual energy consumption	kWh	2,344	3,296	3,829	-	2,344	3,296	3,829
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-				
	Sound power level indoor	Cooling	Nom.	dBA	53	-				
Nominal efficiency	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	-			
	Energy label	Cooling		A			-			
		Heating		A			-			

Notes

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

SEER and SCOP are according to EN 14825

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

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-5 Capacity and Power input				FDQ125C/RZQG125L8Y1			
Indoor unit				FDQ125C			
Outdoor unit				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			
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+			
		Pdesign	kW	12			
		SEER		5.81			
		Annual energy consumption	kWh	723			
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	12.71			
		SCOP/A		4.21			
		Annual energy consumption	kWh	4,227			
Nominal efficiency	EER			3.75			
	COP			3.83			
	Annual energy consumption		kWh	1,600			
	Energy label	Cooling		A			
		Heating		A			

Notes

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

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2 Specifications

2

2-6 Capacity and Power input				FHQ71CB/ RZQG71L8Y1	FHQ100CB/ RZQG100L8Y 1	FHQ125CB/ RZQG125L8Y 1	FHQ140CB/ RZQG140LY1	FHQ100CB/ RZQG71L8Y1	FHQ140CB/ RZQG100L8Y 1	FHQ140CB/ RZQG125L8Y 1	
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++			-				
		Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00	
		SEER		6.86	6.11	6.01	-	6.95	6.11	6.01	
		Annual energy consumption	kWh	347	545	699	-	343	545	699	
	Heating (Average climate)	Energy label		A+			-				
		Pdesign	kW	7.60	11.30	14.13	-	7.60	11.30	14.13	
		SCOP/A		4.32	4.61	4.23	-	4.32	4.61	4.23	
		Annual energy consumption	kWh	2,463	3,432	4,677	-	2,463	3,432	4,677	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBa	64	66	67	-	64	66	67
	Sound power level indoor	Cooling	Nom.	dBa	55	60	62	-	60	64	
Nominal efficiency	EER			3.82	3.81	3.35	3.31	-			
	COP			4.13	4.15	3.89	3.63	-			
	Annual energy consumption			kWh	890 (1)	1,245 (1)	1,790 (1)	2,025 (1)	-		
	Energy label	Cooling		A	-						
Heating		A	-								

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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

SEER and SCOP are according to EN 14825

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

2-7 Capacity and Power input				FUQ71C/RZQG71L8Y1	FUQ100C/RZQG71L8Y1	FUQ125C/RZQG125L8Y1	FUQ100C/RZQG100L8Y1
Indoor unit				FUQ71C		FUQ100C	
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1	
Cooling capacity	Nom.	kW		6.8	-	12.0	9.5
Heating capacity	Nom.	kW		7.5	-	13.5	10.8
Power input	Cooling	Nom.	kW	1.68	-	3.54	2.46
	Heating	Nom.	kW	1.84	-	3.95	2.73
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	
		Pdesign	kW	6.80		12	
		SEER		6.42	6.50	5.61	6.11
		Annual energy consumption	kWh	371	367	749	545
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	7.60		14.13	
		SCOP/A		4.20		4.44	
		Annual energy consumption	kWh	2,534		4,456	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBa	64	-	
	Sound power level indoor	Cooling	Nom.	dBa	59	-	
Nominal efficiency	EER			4.05	-	3.39	3.86
	COP			4.08	-	3.42	3.95
	Annual energy consumption			kWh	840 (1)	-	1,770
	Energy label	Cooling		A	-		A
Heating		A	-		B		

6

2 Specifications

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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

SEER and SCOP are according to EN 14825

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

2-8 Capacity and Power input				FVQ71C/ RZQG71L8Y1	FVQ100C/ RZQG100L8Y1	FVQ125C/ RZQG125L8Y1	FVQ140C/ RZQG140LY1	FVQ100C/ RZQG71L8Y1	FVQ140C/ RZQG100L8Y1	FVQ140C/ RZQG125L8Y1	
Indoor unit				FVQ71C	FVQ100C	FVQ125C	FVQ140C	FVQ100C	FVQ140C		
Outdoor unit				RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1	RZQG140L Y1	RZQG71L8 Y1	RZQG100L 8Y1	RZQG125L 8Y1	
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+		-		A++	
		Pdesign	kW	6.80	9.5	12	-	6.80	9.50	12.00	
		SEER			6.23	5.61		-	6.31	5.61	
		Annual energy consumption	kWh	383	593	749	-	378	593	749	
	Heating (Average climate)	Energy label		A+		A		-		A+	
		Pdesign	kW	6.33	11.3		-	6.33	11.30		
		SCOP/A			4.05	4.2	3.87	-	4.05	4.20	3.87
		Annual energy consumption	kWh	2,189	3,767	4,088	-	2,189	3,767	4,088	
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	64	-					
	Sound power level indoor	Cooling	Nom.	dBA	55	-					
Nominal efficiency	EER			3.37	3.81	3.21		-			
	COP			3.64	4.14	3.70	3.61	-			
	Annual energy consumption			kWh	1,010 (1)	1,245	1,870	2,085	-		
	Energy label	Cooling		A				-			
Heating		A				-					

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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SEER and SCOP are according to EN 14825

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	87	110		
Heat exchanger	Fin	Type		WF fin			
		Treatment		Anti-corrosion treatment (PE)			

2 Specifications

2-9 Technical Specifications					RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
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
Heating		Nom.	m ³ /min	49	62			
Fan motor	Quantity				1	2		
	Model				Brushless DC motor			
	Output			W	94			
	Drive				Direct drive			
	Speed	Cooling	Super low	rpm	-			
		Heating	Super low	rpm	-			
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		
				TCO _{2eq}	6.1	8.4		
	Control				Expansion valve (electronic type)			
	GWP				2,087.5			
	Circuits	Quantity			1			
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD	mm		9.52			
	Gas	Quantity			1			
		Type			Flare connection			
		OD	mm		15.9			
	Drain	Quantity			5			
		Type			Hole			
		ID	mm		-			
		OD	mm		26			
	Piping length	OU - IU	Min.	m	5 (1)			
			Max.	m	50	75		
		System	Equivalent	m	70	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				
Refrigerant oil	Type				FVC50K			
	Charged volume			l	0.9	1.35		
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 Specifications

Standard Accessories : Tie-wraps; Quantity : 2;

Standard Accessories : Installation manual; Quantity : 1;

2-10 Electrical Specifications			RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Power supply	Name		Y1			
	Phase		3N-			
	Frequency	Hz	50			
	Voltage		V			
	Voltage range		Min.	%		10
		Max.	%		10	
Current - 50Hz	Maximum fuse amps (MFA)		A	16	25	
Current	Zmax	List	Complies to EN61000-3-11			
	Recommended fuses		A	16	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			

Notes

(1) 3 with re-charging

PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

See separate drawing for electrical data

Contains fluorinated greenhouse gases

MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

3 Electrical data

3 - 1 Electrical Data

3

RZQG100-125L8Y1

Unit combination		Minimum Ssc value [kVA]
FFQ35B9V1B	x3	936
FFQ50B9V1B	x2	951
FHQ35BW1B	x3	977
FHQ50BW1B	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
FUQ100BW1B	x1	925
FFQ35B9V1B	x4	962
FFQ50B9V1B	x3	993
FFQ60B9V1B	x2	951
FHQ35BW1B	x4	1014
FHQ50BW1B	x3	977
FHQ60BW1B	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
FUQ125BW1B	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 $Ssc^{(2)} \geq$ 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

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RZQG71-100L8Y1

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM			
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQG71EVEB	RZQG71L8Y1B	3N~50Hz 380-415V	Minimum: 342 V Maximum: 456 V	11.5	--	16	--	9.6	0.094	0.4	0.048	0.4		
FCQHG71FVEB	RZQG71L8Y1B			11.6	--	16	--	9.6	0.094	0.4	0.091	0.5		
FCQG35FVEB	x2 RZQG71L8Y1B			11.8	--	16	--	9.6	0.094	0.4	0.044x2	0.3x2		
FCQG71FVEB	RZQG71L8Y1B			11.5	--	16	--	9.6	0.094	0.4	0.054	0.4		
FFQ35C2VEB	x2 RZQG71L8Y1B			12.0	--	16	--	9.6	0.094	0.4	0.05x2	0.4x2		
FDXS35F2VEB	x2 RZQG71L8Y1B			11.8	--	16	--	9.6	0.094	0.4	0.034x2	0.3x2		
FBQ35C8VEB	x2 RZQG71L8Y1B			14.0	--	16	--	9.6	0.094	0.4	0.140x2	1.2x2		
FBQ71C8VEB	RZQG71L8Y1B			12.4	--	16	--	9.6	0.094	0.4	0.350	1.1		
FAQ71C8VEB9	RZQG71L8Y1B			11.5	--	16	--	9.6	0.094	0.4	0.048	0.4		
FVQ71C8VEB	RZQG71L8Y1B			11.8	--	16	--	9.6	0.094	0.4	0.117	0.6		
FHQ35CBVEB	x2 RZQG71L8Y1B			12.5	--	16	--	9.6	0.094	0.4	0.060x2	0.6 x 2		
FHQ71CBVEB	RZQG71L8Y1B			12.0	--	16	--	9.6	0.094	0.4	0.091	0.8		
FUQ71C8VEB	RZQG71L8Y1B			12.1	--	16	--	9.6	0.094	0.4	0.046	0.9		
FCQG100EVEB	RZQG100L8Y1B			3N~50Hz 380-415V	Minimum: 342 V Maximum: 456 V	17.8	--	20	--	14.2	0.094+0.094	0.4+0.4	0.106	1
FCQHG100FVEB	RZQG100L8Y1B					18.1	--	20	--	14.2	0.094+0.094	0.4+0.4	0.221	1.3
FCQG35FVEB	x3 RZQG100L8Y1B					17.6	--	20	--	14.2	0.094+0.094	0.4+0.4	0.044x3	0.3x3
FCQG50FVEB	x2 RZQG100L8Y1B	17.3	--			20	--	14.2	0.094+0.094	0.4+0.4	0.039x2	0.3x2		
FCQG100FVEB	RZQG100L8Y1B	17.4	--			20	--	14.2	0.094+0.094	0.4+0.4	0.117	0.7		
FFQ35C2VEB	x3 RZQG100L8Y1B	18.0	--			20	--	14.2	0.094+0.094	0.4+0.4	0.05x3	0.4x3		
FFQ50C2VEB	x2 RZQG100L8Y1B	17.5	--			20	--	14.2	0.094+0.094	0.4+0.4	0.05x2	0.4x2		
FDXS35F2VEB	x3 RZQG100L8Y1B	17.6	--			20	--	14.2	0.094+0.094	0.4+0.4	0.034x3	0.3x3		
FDXS50F2VEB9	x2 RZQG100L8Y1B	17.8	--			20	--	14.2	0.094+0.094	0.4+0.4	0.06x2	0.5x2		
FBQ35C8VEB	x3 RZQG100L8Y1B	21.0	--			25	--	14.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3		
FBQ50C8VEB	x2 RZQG100L8Y1B	19.5	--			20	--	14.2	0.094+0.094	0.4+0.4	0.140x2	1.2x2		
FBQ100C8VEB	RZQG100L8Y1B	18.5	--			20	--	14.2	0.094+0.094	0.4+0.4	0.350	1.6		
FAQ100C8VEB9	RZQG100L8Y1B	17.0	--			20	--	14.2	0.094+0.094	0.4+0.4	0.064	0.4		
FVQ100C8VEB	RZQG100L8Y1B	18.0	--			20	--	14.2	0.094+0.094	0.4+0.4	0.238	1.2		
FHQ35CBVEB	x3 RZQG100L8Y1B	18.8	--			20	--	14.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3		
FHQ50CBVEB	x2 RZQG100L8Y1B	18.0	--			20	--	14.2	0.094+0.094	0.4+0.4	0.060 x 2	0.6 x 2		
FHQ100CBVEB	RZQG100L8Y1B	18.1	--			20	--	14.2	0.094+0.094	0.4+0.4	0.150	1.3		
FUQ100C8VEB	RZQG100L8Y1B	18.1	--			20	--	14.2	0.094+0.094	0.4+0.4	0.106	1.3		

Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full Load Ampere [A]
- KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
 - Cooling
 - Indoor temperature 27.0°C DB / 19.0°C WB
 - Outdoor temperature 35.0°C DB
 - Heating
 - Indoor temperature 20.0°C DB
 - Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
 - The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
 - The capacity of the MFA must be greater than that of the MCA.
 - Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker

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RZQG71-100L8Y1

Unit combination restrictions		Power supply			COMP		OFM		IFM			
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L8Y1B	3N~ 50Hz	380- 415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,8	16	-	9,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L8Y1B				12	16	-	9,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L8Y1B				17,9	20	-	14,2	0,094 + 0,094	0,4 + 0,4	0,127	1,0
2xFBQ50D2VEB	RZQG100L8Y1B				18,1	20	-	14,2	0,094 + 0,094	0,4 + 0,4	2x0.089	2x0.6

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- | | |
|--------------------------------|------------------------------------|
| ① Hz | OFM Outdoor fan motor |
| ② Voltage | IFM Indoor fan motor |
| ③ Voltage range | FLA Full Load Ampere (A) |
| MCA Minimum Circuit Ampere (A) | kW Fan motor rated output [kW] |
| MFA Maximum Fuse Ampere (A) | RHz Rated operating frequency [Hz] |
| RLA Rated load amps [A] | COMP Compressor |

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RZQG71-100L8Y1

Unit combination restrictions		Power supply			COMP		OFM		IFM			
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L8Y1B	3N~ 50Hz	380- 415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,9	16	-	9,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L8Y1B				17,9	20	-	14,2	0,094 + 0,094	0,4 + 0,4	2x0.06	2x0.5

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- | | |
|--------------------------------|------------------------------------|
| ① Hz | OFM Outdoor fan motor |
| ② Voltage | IFM Indoor fan motor |
| ③ Voltage range | FLA Full Load Ampere (A) |
| MCA Minimum Circuit Ampere (A) | kW Fan motor rated output [kW] |
| MFA Maximum Fuse Ampere (A) | RHz Rated operating frequency [Hz] |
| RLA Rated load amps [A] | COMP Compressor |

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RZQG100-140L(8)Y1

Unit combination restrictions		Power supply			COMP		OFM		IFM					
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA		
3xFBQ35D2VEB	RZQG100L8Y1B	3N~ 50Hz	380- 415V	MAX. 50Hz 456V MIN. 50Hz 342V	18.7	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6		
FBQ125D2VEB	RZQG125L8Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5		
2xFBQ60D2VEB	RZQG125L8Y1B				18	20	-	14.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5		
3xFBQ50D2VEB	RZQG125L8Y1B				18.8	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6		
4xFBQ35D2VEB	RZQG125L8Y1B				19.4	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6		
FBQ140D2VEB	RZQG140L7Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	0.187	1.5		
2xFBQ71D2VEB	RZQG140L7Y1B				18	20	-	14.2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5		
3xFBQ50D2VEB	RZQG140L7Y1B				18.8	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6		
4xFBQ35D2VEB	RZQG140L7Y1B				19.4	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6		

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (A)
- RLA Rated load amps [A]

- OFM Outdoor fan motor
- IFM Indoor fan motor
- FLA Full Load Ampere (A)
- kW Fan motor rated output [kW]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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RZQG100-140L(8)Y1

Unit combination restrictions		Power supply			COMP		OFM		IFM					
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA		
3xFNQ35A2VEB	RZQG100L8Y1B	3N~ 50Hz	380- 415V	MAX. 50Hz 456V MIN. 50Hz 342V	17.8	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3		
2xFNQ60A2VEB	RZQG125L8Y1B				18	20	-	14.2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5		
3xFNQ50A2VEB	RZQG125L8Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5		
4xFNQ35A2VEB	RZQG125L8Y1B				18.2	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3		
3xFNQ50A2VEB	RZQG140L7Y1B				18.5	20	-	14.2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5		
4xFNQ35A2VEB	RZQG140L7Y1B				18.2	20	-	14.2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3		

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (A)
- RLA Rated load amps [A]

- OFM Outdoor fan motor
- IFM Indoor fan motor
- FLA Full Load Ampere (A)
- kW Fan motor rated output [kW]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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RZQG125-140L(8)Y1

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM			
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQG125EVEB	RZQG125L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum: 456 V	17.9	—	20	—	14.2	0.094+0.094	0.4+0.4	0.106	1.1		
FCQH3125FVEB	RZQG125L8Y1B			18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4		
FCQG35FVEB	x4 RZQG125L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x4	0.3x4		
FCQG50FVEB	x3 RZQG125L8Y1B			17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039x3	0.3x3		
FCQG60FVEB	x2 RZQG125L8Y1B			17.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044x2	0.3x2		
FCQG125FVEB	RZQG125L8Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1		
FFQ35C2VEB	x4 RZQG125L8Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x4	0.4x4		
FFQ50C2VEB	x3 RZQG125L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x3	0.4x3		
FFQ60C2VEB	x2 RZQG125L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x2	0.6x2		
FDXS35F2VEB9	x4 RZQG125L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.034x4	0.3x4		
FDXS50F2VEB9	x3 RZQG125L8Y1B			18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.06x3	0.5x3		
FDXS60F2VEB	x2 RZQG125L8Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060x2	0.5x2		
FBQ35C8VEB	x4 RZQG125L8Y1B			22.5	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x4	1.2x4		
FBQ50C8VEB	x3 RZQG125L8Y1B			21.0	—	25	—	14.2	0.094+0.094	0.4+0.4	0.140x3	1.2x3		
FBQ60C8VEB	x2 RZQG125L8Y1B			19.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350x2	1.1x2		
FBQ125C8VEB	RZQG125L8Y1B			19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350	2.1		
FDQ125C7VEB	RZQG125L8Y1B			19.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.350	2.1		
FVQ125C6VEB	RZQG125L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.238	1.2		
FHQ35C8VEB	x4 RZQG125L8Y1B			19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x 4	0.6 x 4		
FHQ50C8VEB	x3 RZQG125L8Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3		
FHQ60C8VEB	x2 RZQG125L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x 2	0.6 x 2		
FHQ125C8VEB	RZQG125L8Y1B			18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.5		
FUQ125C6VEB	RZQG125L8Y1B			18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.106	1.4		
FCQG71EVEB	x2 RZQG140L7Y1B			3N~ 50Hz 380-415V	Minimum: 342 V Maximum: 456 V	17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048x2	0.4x2
FCQG140EVEB	RZQG140L7Y1B					17.9	—	20	—	14.2	0.094+0.094	0.4+0.4	0.106	1.1
FCQH371FVEB	x2 RZQG140L7Y1B					17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091x2	0.5x2
FCQH3140FVEB	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
FFQ35C2VEB	x4 RZQG140L7Y1B					18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.05x4	0.4x4
FFQ50C2VEB	x3 RZQG140L7Y1B	18.0	—			20	—	14.2	0.094+0.094	0.4+0.4	0.05x3	0.4x3		
FFQ60C2VEB	x2 RZQG140L7Y1B	18.0	—			20	—	14.2	0.094+0.094	0.4+0.4	0.034x2	0.3x2		
FDXS35F2VEB9	x4 RZQG140L7Y1B	18.4	—			20	—	14.2	0.094+0.094	0.4+0.4	0.06x3	0.5x3		
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		
FHQ140C8VEB	RZQG140L7Y1B	18.8	—			20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.8		
FUQ71C6VEB	x2 RZQG140L7Y1B	18.8	—			20	—	14.2	0.094+0.094	0.4+0.4	0.046 x 2	0.9 x 2		

Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full Load Ampere [A]
- KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
 - Cooling
 - Indoor temperature 27.0°C DB / 19.0°C WB
 - Outdoor temperature 35.0°C DB
 - Heating
 - Indoor temperature 20.0°C DB
 - Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
 - The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
 - The capacity of the MFA must be greater than that of the MCA.
 - Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker

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3 Electrical data

3 - 1 Electrical Data

RZQG71-100L8Y1

Infrastructure Cooling

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM	
							MSC	RLA	kW	FLA	kW	FLA
FCQHG100FVEB	RZQG71L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	12.6	—	16	—	9.6	0.094	0.4	0.221	1.3
FCQG35FVEB	x3 RZQG71L8Y1B			12.1	—	16	—	9.6	0.094	0.4	0.044 x3	0.3 x3
FCQG50FVEB	x2 RZQG71L8Y1B			11.8	—	16	—	9.6	0.094	0.4	0.039 x2	0.3 x2
FCQG100FVEB	x2 RZQG71L8Y1B			11.9	—	16	—	9.6	0.094	0.4	0.117	0.7
FFQ35C2VEB	x3 RZQG71L8Y1B			12.5	—	16	—	9.6	0.094	0.4	0.050 x3	0.4 x3
FFQ50C2VEB	x2 RZQG71L8Y1B			12.0	—	16	—	9.6	0.094	0.4	0.050 x2	0.4 x2
FBQ35D2VEB	x3 RZQG71L8Y1B			13.3	—	16	—	9.6	0.094	0.4	0.089 x3	0.6 x3
FBQ50D2VEB	x2 RZQG71L8Y1B			12.5	—	16	—	9.6	0.094	0.4	0.089 x2	0.6 x2
FBQ100D2VEB	x2 RZQG71L8Y1B			12.3	—	16	—	9.6	0.094	0.4	0.127	1.0
FHQ35CAVEB	x3 RZQG71L8Y1B			13.3	—	16	—	9.6	0.094	0.4	0.060 x3	0.6 x3
FHQ50CAVEB	x2 RZQG71L8Y1B			12.5	—	16	—	9.6	0.094	0.4	0.060 x2	0.6 x2
FHQ100CAVEB	x2 RZQG71L8Y1B			12.6	—	16	—	9.6	0.094	0.4	0.150	1.3
FUQ100CVEB	x2 RZQG71L8Y1B			12.6	—	16	—	9.6	0.094	0.4	0.106	1.3
FAQ100CVEB	x2 RZQG71L8Y1B			11.5	—	16	—	9.6	0.094	0.4	0.064	0.4
FVQ100CVEB	x2 RZQG71L8Y1B			12.5	—	16	—	9.6	0.094	0.4	0.238	1.2
FDXS35F2VEB	x3 RZQG71L8Y1B			12.1	—	16	—	9.6	0.094	0.4	0.034 x3	0.3 x3
FDXS50F2VEB9	x2 RZQG71L8Y1B			12.3	—	16	—	9.6	0.094	0.4	0.060 x2	0.5 x2
FCQHG71FVEB	x2 RZQG100L8Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2
FCQHG140FVEB	x2 RZQG100L8Y1B			18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	x4 RZQG100L8Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044 x4	0.3 x4
FCQG50FVEB	x3 RZQG100L8Y1B			17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3
FCQG71FVEB	x2 RZQG100L8Y1B			17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.054 x2	0.4 x2
FCQG140FVEB	x2 RZQG100L8Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	x4 RZQG100L8Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.050 x4	0.4 x4
FFQ50C2VEB	x3 RZQG100L8Y1B	18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.050 x3	0.4 x3		
FBQ35D2VEB	x4 RZQG100L8Y1B	19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4		
FBQ50D2VEB	x3 RZQG100L8Y1B	18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3		
FBQ71D2VEB	x2 RZQG100L8Y1B	17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2		
FBQ140D2VEB	x2 RZQG100L8Y1B	18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.187	1.5		
FHQ35CAVEB	x4 RZQG100L8Y1B	19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x4	0.6 x4		
FHQ50CAVEB	x3 RZQG100L8Y1B	18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.6 x3		
FHQ71CAVEB	x2 RZQG100L8Y1B	18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2		
FHQ140CAVEB	x2 RZQG100L8Y1B	18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.8		
FUQ71CVEB	x2 RZQG100L8Y1B	18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.046 x2	0.9 x2		
FAQ71CVEB	x2 RZQG100L8Y1B	17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048 x2	0.4 x2		
FVQ140CVEB	x2 RZQG100L8Y1B	18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.276	1.4		
FDXS35F2VEB	x4 RZQG100L8Y1B	18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4		
FDXS50F2VEB9	x3 RZQG100L8Y1B	18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3		

Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full Load Ampere [A]
- KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
 - Cooling
 - Indoor temperature 27.0°C DB / 19.0°C WB
 - Outdoor temperature 35.0°C DB
 - Heating
 - Indoor temperature 20.0°C DB
 - Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
 - The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
 - The capacity of the MFA must be greater than that of the MCA.
 - Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker

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3 Electrical data

3 - 1 Electrical Data

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RZQG125-140L(8)Y1

Infrastructure Cooling

Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM		
							MSC	RLA	kW	FLA	kW	FLA	
FCQHG71FVEB	x2	RZQG125L8Y1B	Minimum: 342 V Maximum: 456 V	17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2	
FCQHG140FVEB		RZQG125L8Y1B		18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.244	1.4	
FCQG35FVEB	x4	RZQG125L8Y1B		18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044 x4	0.3 x4	
FCQG35FVEB	x3	RZQG125L8Y1B		17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3	
FCQG71FVEB	x2	RZQG125L8Y1B		17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.054 x2	0.4 x2	
FCQG140FVEB		RZQG125L8Y1B		17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1.0	
FFQ35C2VEB	x4	RZQG125L8Y1B		18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.050 x4	0.4 x4	
FFQ50C2VEB	x3	RZQG125L8Y1B		18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.050 x3	0.4 x3	
FBQ35D2VEB	x4	RZQG125L8Y1B		19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4	
FBQ50D2VEB	x3	RZQG125L8Y1B		18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3	
FBQ71D2VEB	x2	RZQG125L8Y1B		17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2	
FBQ140D2VEB		RZQG125L8Y1B		18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.187	1.5	
FHQ35CAVEB	x4	RZQG125L8Y1B		19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x4	0.6 x4	
FHQ50CAVEB	x3	RZQG125L8Y1B		18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.6 x3	
FHQ71CAVEB	x2	RZQG125L8Y1B		18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.8 x2	
FHQ140CAVEB		RZQG125L8Y1B		18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.8	
FUQ71CVEB	x2	RZQG125L8Y1B		18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.046 x2	0.9 x2	
FAQ71CVEB	x2	RZQG125L8Y1B		17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.048 x2	0.4 x2	
FVQ140CVEB		RZQG125L8Y1B		18.3	—	20	—	14.2	0.094+0.094	0.4+0.4	0.276	1.4	
FDXS35F2VEB	x4	RZQG125L8Y1B		18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4	
FDXS50F2VEB9	x3	RZQG125L8Y1B		18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3	
FCQHG71FVEB	x2	RZQG140L7Y1B		Minimum: 342 V Maximum: 456 V	17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.5 x2
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	0.044 x4	0.3 x4
FCQG50FVEB	x3	RZQG140L7Y1B			17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.039 x3	0.3 x3
FCQG71FVEB	x2	RZQG140L7Y1B			17.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.054 x2	0.4 x2
FCQG140FVEB		RZQG140L7Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	x4	RZQG140L7Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.050 x4	0.4 x4
FFQ50C2VEB	x3	RZQG140L7Y1B			18.0	—	20	—	14.2	0.094+0.094	0.4+0.4	0.050 x3	0.4 x3
FBQ35D2VEB	x4	RZQG140L7Y1B			19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.089 x4	0.6 x4
FBQ50D2VEB	x3	RZQG140L7Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.089 x3	0.6 x3
FBQ71D2VEB	x2	RZQG140L7Y1B			17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.070 x2	0.5 x2
FBQ140D2VEB		RZQG140L7Y1B			18.4	—	20	—	14.2	0.094+0.094	0.4+0.4	0.187	1.5
FHQ35CAVEB	x4	RZQG140L7Y1B			19.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x4	0.6 x4
FHQ50CAVEB	x3	RZQG140L7Y1B			18.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.6 x3
FHQ71CAVEB	x2	RZQG140L7Y1B			18.5	—	20	—	14.2	0.094+0.094	0.4+0.4	0.091 x2	0.8 x2
FHQ140CAVEB		RZQG140L7Y1B	18.8		—	20	—	14.2	0.094+0.094	0.4+0.4	0.150	1.8	
FUQ71CVEB	x2	RZQG140L7Y1B	18.8		—	20	—	14.2	0.094+0.094	0.4+0.4	0.046 x2	0.9 x2	
FAQ71CVEB	x2	RZQG140L7Y1B	17.5		—	20	—	14.2	0.094+0.094	0.4+0.4	0.048 x2	0.4 x2	
FVQ140CVEB		RZQG140L7Y1B	18.3		—	20	—	14.2	0.094+0.094	0.4+0.4	0.276	1.4	
FDXS35F2VEB	x4	RZQG140L7Y1B	18.0		—	20	—	14.2	0.094+0.094	0.4+0.4	0.034 x4	0.3 x4	
FDXS50F2VEB9	x3	RZQG140L7Y1B	18.4		—	20	—	14.2	0.094+0.094	0.4+0.4	0.060 x3	0.5 x3	

Symbols

- MCA: Minimum Circuit Ampere [A]
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere [A]
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full Load Ampere [A]
- KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
 - Cooling
 - Indoor temperature 27.0°C DB / 19.0°C WB
 - Outdoor temperature 35.0°C DB
 - Heating
 - Indoor temperature 20.0°C DB
 - Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
 - The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
 - The capacity of the MFA must be greater than that of the MCA.
 - Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker

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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

Table with 12 columns: Sky Air, High Cassette, Thin cassette, 2x2 cassette, Duct (medium ESP), Ceiling-suspended, Ceiling-mounted - 4-way blow, Wall mounted type, Duct (high ESP), Floor standing type, Slim duct, Concealed floor standing type. Rows list models like RZQG71L9V1B, RZQG100L9V1B, etc.

Possible combinations

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

Notes

- 1. The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.

- Twin : KHRQ22M20T or KHRQ58T
Triple : KHRQ127H or KHRQ58H
Double twin : KHRQ22M20T or KHRQ58T

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RZQG-L9V1
RZQG-L(8)Y1

Possible combinations

Table with 4 columns: P= Pair, 71, 100, 125, 140. Rows show 2= Twin, 3= Triple, 4= Double twin combinations.

(*) Maximum capacity of outdoor units

Table with 12 columns: Sky Air, High Cassette, Thin cassette, 2x2 cassette, Duct (medium ESP), Ceiling-suspended, Ceiling-mounted - 4-way blow, Wall mounted type, Duct (high ESP), Floor standing type, Slim duct. Rows list models like RZQG71L9V1B, RZQG100L9V1B, etc.

Table with 12 columns: Sky Air, High Cassette, Thin cassette, 2x2 cassette, Duct (medium ESP), Ceiling-suspended, Ceiling-mounted - 4-way blow, Wall mounted type, Duct (high ESP), Floor standing type, Slim duct. Rows list models like RZSG71L9V1B, RZSG100L9V1B, etc.

Table with 4 columns: Sky Air, Duct (medium ESP), Concealed floor standing type. Rows list models like RZQG71L9V1B, RZQG100L9V1B, etc.

Notes

- 1. The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.

- Twin : KHRQ22M20TA or KHRQ58T
Triple : KHRQ127H or KHRQ58H
Double twin : KHRQ22M20TA or KHRQ58T

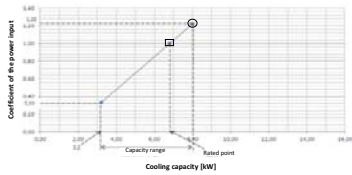
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6 Capacity tables

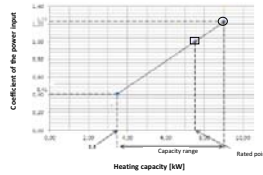
6 - 2 Cooling/Heating Capacity Tables

RZQG71L9V1 RZQG71L8Y1

Cooling



Heating



Symbols
 AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EWB: Entering wet-bulb temperature (°C WB)
 EDB: Entering dry-bulb temperature (°C DB)
 TC: Maximum total cooling/heating capacity (kW)
 SHC: Sensible heat capacity (kW)
 CPI: Coefficient of the power input
 P: Power input (kW)
 compressor + indoor and outdoor fan motors

Cooling

Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°C WB	TCDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	8.05	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
19.5	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	5.26	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

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions
 □ = Rated capacity and rated coefficient of the power input
 The maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor units EWB & EDB.
 SHC for other dry-bulb temperatures = SHC + SHC*
 SHC* = SHC correction for other dry-bulb temperatures
 = 0.02 × AFR (m³/min) × (L 85) × (DB* - EDB)
- The capacities are based on the following conditions:
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0m
 Level difference: 0m
 CPI is a percentage value compared to the rated value which is 1.00.
 The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.

Pair	RCQ67H	RCQ67H	RCQ71C	RCQ71C	RCQ71C	RCQ71C	RCQ71C	RCQ71C	RCQ71C
AFR	21.2	21.5	18.0	20.5	18.0	18.0	20.5	23.0	18.0
BF	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)

Twin	RCQ6SF x 2	RCQ6SC x 2	RCQ6SC x 2	RCQ6SC x 2	RCQ6SF x 2	RCQ6SD x 2	RCQ6SA x 2
AFR	12.5 x 2	16 x 2	14 x 2	10 x 2	8.7 x 2	15 x 2	8.7 x 2
BF	(0.4 x 2)	(0.15 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Heating

Indoor	Outdoor temperature [°C DB]											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C WB	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC
16	6.44	0.99	7.09	0.99	7.56	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	1.02	7.78	1.10	9.00	1.17	9.71	1.24
20	6.42	1.01	7.07	1.07	7.50	1.16	7.77	1.16	9.00	1.22	9.71	1.30
21	6.42	1.03	7.07	1.09	7.50	1.18	7.77	1.16	9.00	1.24	9.71	1.31
22	6.42	1.06	7.06	1.11	7.50	1.16	7.76	1.19	9.00	1.27	9.71	1.33
24	6.41	1.09	7.06	1.15	7.51	1.20	7.76	1.23	9.00	1.32	9.67	1.38

- The rated power input for each model is mentioned in the table below.

Pair	RCQ67H	RCQ67H	RCQ71C	RCQ71C	RCQ71C	RCQ71C	RCQ71C	RCQ71C	RCQ71C
Cooling	1.66	2.01	1.94	1.78	2.00	2.02	1.78	1.67	1.89
Heating	1.56	1.89	2.05	1.82	2.02	2.06	1.82	1.68	1.87

Twin	RCQ6SF x 2	RCQ6SC x 2	RCQ6SC x 2	RCQ6SC x 2	RCQ6SF x 2	RCQ6SD x 2	RCQ6SA x 2
Cooling	2.04	1.98	2.34	2.02	2.23	2.01	2.23
Heating	1.92	2.16	2.70	1.88	2.55	2.08	2.55

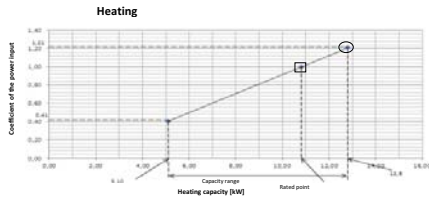
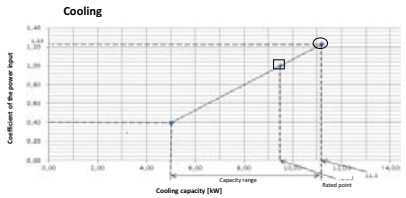
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6 Capacity tables

6 - 2 Cooling/Heating Capacity Tables

6

RZQG100L9V1 RZQG100L8Y1



Symbol
 AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EW: Entering wet-bulb temperature (°C WB)
 ED: Entering dry-bulb temperature (°C DB)
 TC: Maximum total cooling/heating capacity [kW]
 SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 PI: Power input [kW]
 compressor + indoor and outdoor fan motors

Indoor	Outdoor temperature [°C DB]															
	25				30				35				40			
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI				
°CWB	°CDB	LW	SHC	LW	SHC	LW	SHC	LW	SHC	LW	SHC	LW	SHC	LW	SHC	
16.0	22	11.20	7.61	1.01	10.85	7.44	1.11	10.50	7.29	1.22	10.11	7.09	1.32	9.60	6.89	
18.0	25	11.30	7.59	1.01	11.22	7.49	1.12	10.90	7.37	1.23	10.55	7.20	1.33	10.00	6.85	
19.0	27	12.00	7.57	1.02	11.62	7.44	1.12	11.20	7.26	1.23	10.80	7.04	1.33	9.50	6.81	
19.5	27	12.15	7.59	1.02	11.74	7.37	1.13	11.43	7.34	1.23	10.91	7.04	1.34	9.50	6.81	
22.0	30	12.80	7.57	1.02	12.22	7.36	1.13	11.90	7.16	1.24	11.52	7.03	1.35	9.00	6.77	
24.0	32	13.30	7.42	1.03	12.88	7.27	1.14	12.40	7.06	1.25	11.97	6.91	1.36	8.50	6.73	

Indoor	Outdoor temperature [°C WB]															
	-15.0				-10.0				-5.0				0.0			
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI				
°CWB	°CDB	LW	SHC	LW	SHC	LW	SHC	LW	SHC	LW	SHC	LW	SHC	LW	SHC	
10	10	0.80	0.92	0.45	0.90	10.1	1.02	10.4	1.06	10.6	1.10	10.8	1.14	11.0	1.18	
10	10	0.87	0.97	0.44	1.00	10.0	1.06	10.2	1.09	10.4	1.12	10.6	1.15	10.8	1.18	
20	20	0.96	1.00	0.43	1.06	10.0	1.11	10.3	1.15	10.5	1.19	10.7	1.23	10.9	1.27	
21	21	0.96	1.02	0.42	1.08	10.0	1.12	10.3	1.16	10.5	1.20	10.7	1.24	10.9	1.28	
22	22	0.96	1.04	0.42	1.10	10.0	1.14	10.3	1.18	10.5	1.22	10.7	1.26	10.9	1.30	
24	24	0.94	1.00	0.41	1.14	10.0	1.19	10.3	1.25	10.5	1.29	10.7	1.33	10.9	1.37	

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions.
□ = Rated capacity and rated coefficient of the power input.
The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EW & ED.
SHC for other dry-bulb temperatures = SHC + SHC*
SHC* = SHC correction for other dry-bulb temperatures
= 0.02 x AFR (m³/min) x (1-ED) x (DB* - ED)
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
 - CPI is a percentage value compared to the rated value which is 1.00.
 - The error rate for this value is less than 5% and depends on the indoor unit type.
 - The heating performance takes into account the drop that occurs during defrost operation.
 - The air flow rate and bypass factor are mentioned in the table.

- The rated power input for each model is mentioned in the table below.

	FCQ0100P	FCQ0100F	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C
AFR	32.3	32.0	32.0	30.0	26.0	28.0	28.0	31.0	29.0
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.10)	(0.20)	(0.09)	(0.20)	(0.03)

	FCQ0100P	FCQ0100F	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C	FCQ0100C
Cooling	2.15	2.45	2.44	2.49	2.63	2.49	2.30	2.33	2.49
Heating	2.16	2.60	2.57	2.60	3.00	2.61	2.60	2.62	2.45

	FCQ009 x 1	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2
AFR	12.6 x 2	16 x 2	15 x 2	12 x 2	16 x 2	15 x 3	16 x 2
(BF)	(0.22 x 2)	(0.16 x 2)	(0.18 x 2)	(0.16 x 2)	(0.11 x 2)	(0.13 x 2)	(0.11 x 2)

	FCQ009 x 1	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2	FCQ009 x 2
Cooling	2.32	2.51	2.93	2.65	2.51	2.87
Heating	2.46	2.86	3.28	2.89	2.96	2.73

	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3
AFR	12.6 x 3	16 x 3	14 x 3	10 x 3	8.7 x 3	15 x 3
(BF)	(0.4 x 3)	(0.15 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.17 x 3)

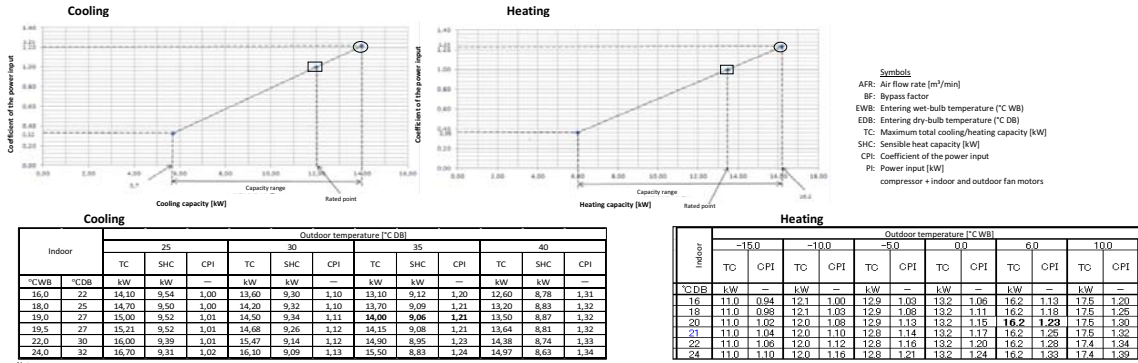
	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3	FCQ009 x 3
Cooling	2.38	2.51	2.91	2.45	2.81	2.68
Heating	2.51	2.86	3.20	2.99	3.68	2.70

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6 Capacity tables

6 - 2 Cooling/Heating Capacity Tables

RZQG125L9V1 RZQG125L8Y1



Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
16.0	22	14.10	9.54	1.00	13.60	9.30	1.10	13.10	9.12	1.20	12.60	8.78	1.31
18.0	25	14.70	9.50	1.00	14.20	9.32	1.10	13.70	9.09	1.21	13.20	8.83	1.32
19.0	27	15.00	9.52	1.01	14.50	9.34	1.11	14.00	9.08	1.23	13.50	8.87	1.32
19.5	27	15.21	9.52	1.01	14.68	9.36	1.12	14.15	9.08	1.23	13.64	8.81	1.32
22.0	30	16.00	9.39	1.01	15.47	9.14	1.12	14.90	8.95	1.23	14.38	8.74	1.33
24.0	32	16.70	9.31	1.02	16.10	9.09	1.13	15.50	8.83	1.24	14.97	8.63	1.34

Indoor	Outdoor temperature (°C WB)											
	-15.0		-10.0		-5.0		0.0		5.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
GDB	11.0	0.94	12.1	1.00	12.9	1.03	13.2	1.06	16.2	1.13	17.5	1.20
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	1.26
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	12.9	1.14	13.2	1.17	16.2	1.26	17.5	1.32
22	11.0	1.06	12.0	1.12	12.9	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	1.38

- Notes:
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
SHC for other dry-bulb temperatures = SHC + SHC*
SHC* = SHC correction for other dry-bulb temperatures
= 0.02 × AFR (m³/min) × (1 - DB) × (DB - EDB)
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
 - CPI is a percentage value compared to the rated value which is 1.00.
 - The error rate for this value is less than 5% and depends on the indoor unit type.
 - The heating performance takes into account the drop that occurs during defrost operation.
 - The air flow rate and bypass factor are mentioned in the table.

9. The rated power input for each model is mentioned in the table below.

	FDQ612F	FDQ612F	FRQ125C	FRQ125C	FRQ125C	FRQ125C	FRQ125C	FRQ125C	FRQ125D
AFR (BF)	33.5 (0.19)	33.0 (0.21)	39.0 (0.16)	31.0 (0.134)	39.0 (0.16)	28.0 (0.16)	31.0 (0.14)	32.5 (0.19)	34.0 (0.06)

	FDQ612F	FDQ612F	FRQ125C	FRQ125C	FRQ125C	FRQ125C	FRQ125C	FRQ125C	FRQ125D
Cooling	3.05	3.23	3.15	3.58	3.20	3.74	3.41	3.44	3.63
Heating	3.07	3.72	3.53	3.48	3.53	3.65	3.48	3.86	3.46

	FDQ609 X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2
AFR (BF)	13.6 x 2 (0.2 x 2)	18 x 2 (0.15 x 2)	19.5 x 2 (0.20 x 2)	14.5 x 2 (0.11 x 2)	16 x 2 (0.12 x 2)	18 x 2 (0.18 x 2)	16 x 2 (0.12 x 2)

	FDQ609 X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2	FRQ125C X 2
Cooling	3.14	3.28	3.97	3.61	3.76	4.10	3.76
Heating	3.64	3.74	4.11	4.10	4.20	3.65	4.20

	FDQ609 X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3
AFR (BF)	12.6 x 3 (0.22 x 3)	16 x 3 (0.16 x 3)	15 x 3 (0.18 x 3)	12 x 3 (0.16 x 3)	15 x 3 (0.11 x 3)	15 x 3 (0.13 x 3)	16 x 3 (0.11 x 3)

	FDQ609 X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3	FRQ125C X 3
Cooling	3.17	3.28	3.66	3.23	3.45	3.97	3.45
Heating	3.66	3.74	4.10	3.55	3.61	3.81	3.61

	FDQ609 X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4
AFR (BF)	12.5 x 4 (0.4 x 4)	16 x 4 (0.15 x 4)	14 x 4 (0.17 x 4)	10 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15 x 4 (0.18 x 4)	8.7 x 4 (0.17 x 4)

	FDQ609 X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4	FRQ125C X 4
Cooling	3.23	3.28	3.64	3.01	3.34	3.74	3.94
Heating	3.72	3.74	4.00	3.30	3.45	3.78	4.45

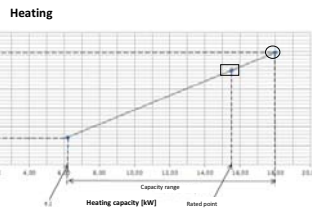
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6 Capacity tables

6 - 2 Cooling/Heating Capacity Tables

6

RZQG140L9V1 RZQG140L8Y1



Symbols
 AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EWB: Entering wet-bulb temperature (°C WB)
 EDB: Entering dry-bulb temperature (°C DB)
 TC: Maximum total cooling/heating capacity (kW)
 SHC: Sensible heat capacity (kW)
 CPI: Coefficient of the power input
 PI: Power input (kW)
 compressor • indoor and outdoor fan motors

Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
18.0	25	16.17	10.55	0.98	15.62	10.21	1.09	15.11	10.01	1.19	14.52	9.71	1.30
19.0	27	16.58	10.43	0.99	15.96	10.18	1.09	15.40	9.98	1.19	14.83	9.76	1.30
19.5	27	16.74	10.48	0.99	16.14	10.16	1.10	15.57	10.00	1.19	14.98	9.66	1.30
22.0	30	17.61	10.37	0.99	17.01	10.16	1.10	16.36	9.83	1.21	15.76	9.60	1.31
24.0	32	18.38	10.20	1.00	17.72	10.00	1.11	17.04	9.67	1.22	16.43	9.47	1.32

Indoor	Outdoor temperature [°C WB]																			
	-15.0			-10.0			-5.0			0.0			6.0			10.0				
	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI		
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—	kW	
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	14.0	1.07	18.0	1.09	19.4	1.16	18.0	1.14	19.4	1.21	19.4	1.26
18	11.6	0.96	12.7	1.00	13.9	1.04	13.9	1.11	18.0	1.11	18.0	1.11	19.4	1.19	18.0	1.19	19.4	1.25	19.4	1.30
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	13.9	1.13	18.0	1.13	19.4	1.21	18.0	1.21	19.4	1.28	19.4	1.33
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.16	18.0	1.24	19.4	1.30	18.0	1.24	19.4	1.36	19.4	1.41
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.20	18.0	1.29	19.4	1.36	18.0	1.29	19.4	1.43	19.4	1.48

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
SHC for other dry-bulb temperatures = SHC × SHC*
SHC* = SHC correction for other dry-bulb temperatures
= 0.02 × AFR (m³/min) × [(DB* - EDB)]
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
Corresponding refrigerant piping length: 5.0 m level difference: 0m
5. CPI is a percentage value compared to the rated value which is 1.00.
6. The error rate for this value is less than 5% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.

- The rated power input for each model is mentioned in the table below.

Pair

	FCQ0140P	FCQ0140F	FCQ0140C	FCQ0140AC	FCQ0140BC	FCQ0140CC	FCQ0140DC
AFR	33.5	33.0	39 C/41H	34.0	30.0	34.0	34.0
BF	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)	(0.16)

Pair

	FCQ0140P	FCQ0140F	FCQ0140C	FCQ0140AC	FCQ0140BC	FCQ0140DC
Cooling	4.00	4.17	4.02	4.05	4.17	4.05
Heating	3.77	4.30	4.30	4.27	4.30	4.27

Twin

	FCQ0170P x 2	FCQ0170F x 2	FCQ0170C x 2	FCQ0170AC x 2	FCQ0170BC x 2	FCQ0170CC x 2	FCQ0170DC x 2
AFR	21.2 x 2	21.5 x 2	18.0 x 2	20.5 x 2	18.0 x 2	20.5 x 2	22.0 x 2
BF	(0.24 x 2)	(0.14 x 2)	(0.08 x 2)	(0.13 x 2)	(0.16 x 2)	(0.13 x 2)	(0.13 x 2)

Twin

	FCQ0170P x 2	FCQ0170F x 2	FCQ0170C x 2	FCQ0170AC x 2	FCQ0170BC x 2	FCQ0170CC x 2	FCQ0170DC x 2
Cooling	3.94	4.21	3.75	3.79	3.94	3.75	3.75
Heating	3.71	4.24	4.20	4.17	4.24	4.17	4.20

Triple

	FCQ0200P x 3	FCQ0200F x 3	FCQ0200C x 3	FCQ0200AC x 3	FCQ0200BC x 3	FCQ0200CC x 3	FCQ0200DC x 3
AFR	12.6 x 3	16 x 3	18.4 x 3	12 x 3	16 x 3	15 x 3	16 x 3
BF	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Triple

	FCQ0200P x 3	FCQ0200F x 3	FCQ0200C x 3	FCQ0200AC x 3	FCQ0200BC x 3	FCQ0200CC x 3	FCQ0200DC x 3
Cooling	4.12	3.75	4.25	4.15	4.26	3.75	4.26
Heating	4.24	4.70	5.43	4.15	4.37	4.70	4.37

Double twin

	FCQ0200P x 4	FCQ0200F x 4	FCQ0200C x 4	FCQ0200AC x 4	FCQ0200BC x 4	FCQ0200CC x 4	FCQ0200DC x 4
AFR	12.2 x 4	16 x 4	18.4 x 4	10 x 4	8.7 x 4	13 x 4	8.7 x 4
BF	(0.4 x 4)	(0.15 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

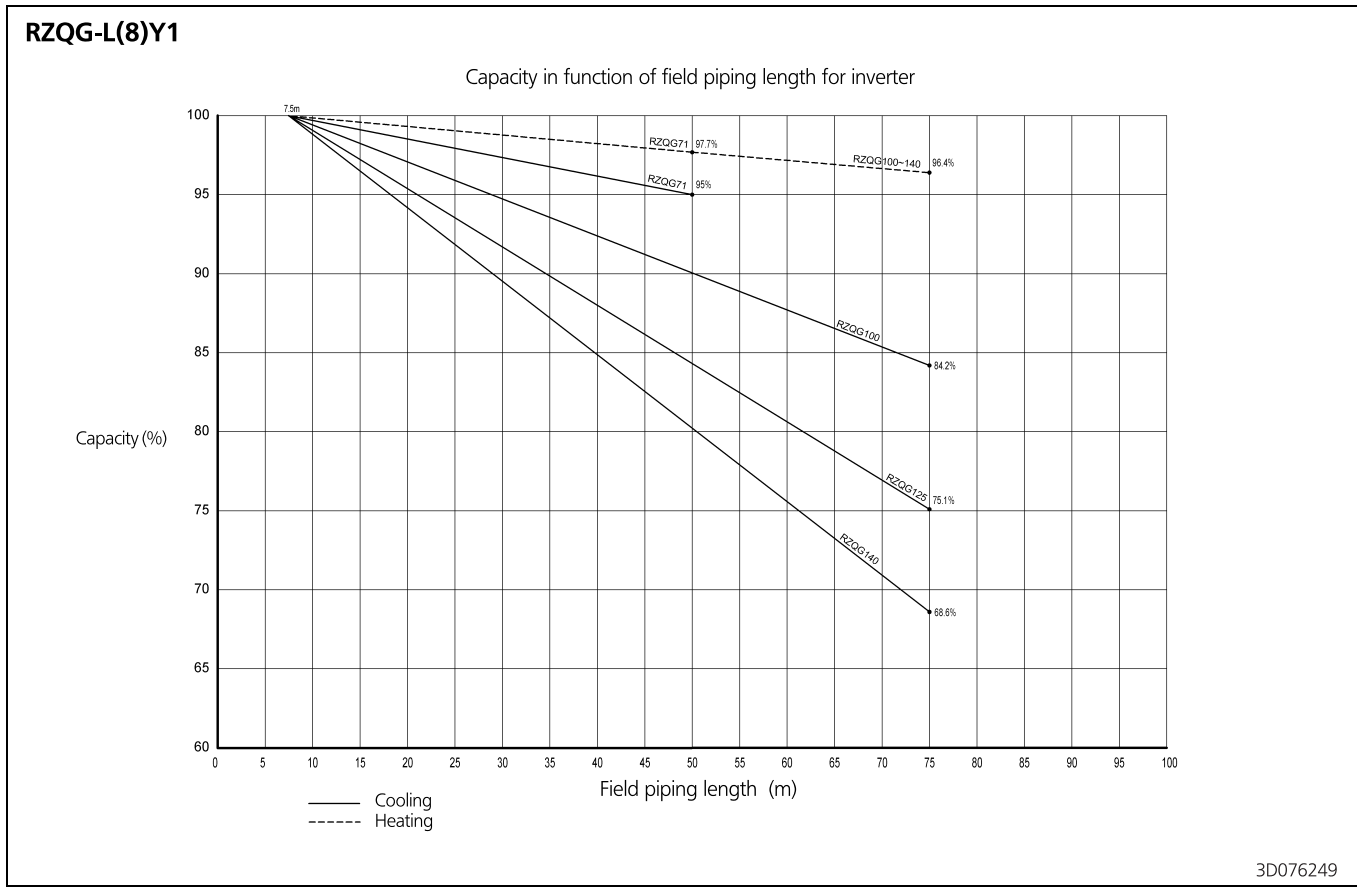
Double twin

	FCQ0200P x 4	FCQ0200F x 4	FCQ0200C x 4	FCQ0200AC x 4	FCQ0200BC x 4	FCQ0200CC x 4	FCQ0200DC x 4
Cooling	4.08	3.75	4.25	3.83	3.75	3.75	3.75
Heating	4.30	4.70	5.33	3.81	3.85	4.70	3.85

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6 Capacity tables

6 - 3 Capacity Correction Factor

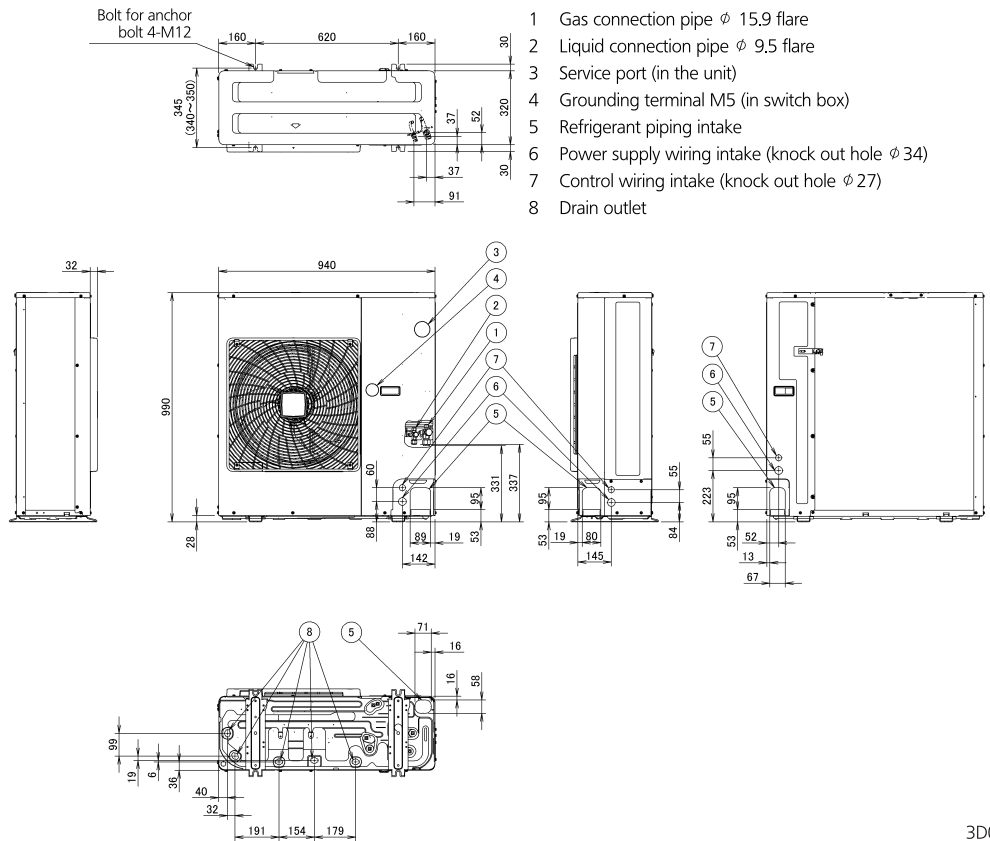


7 Dimensional drawings

7 - 1 Dimensional Drawings

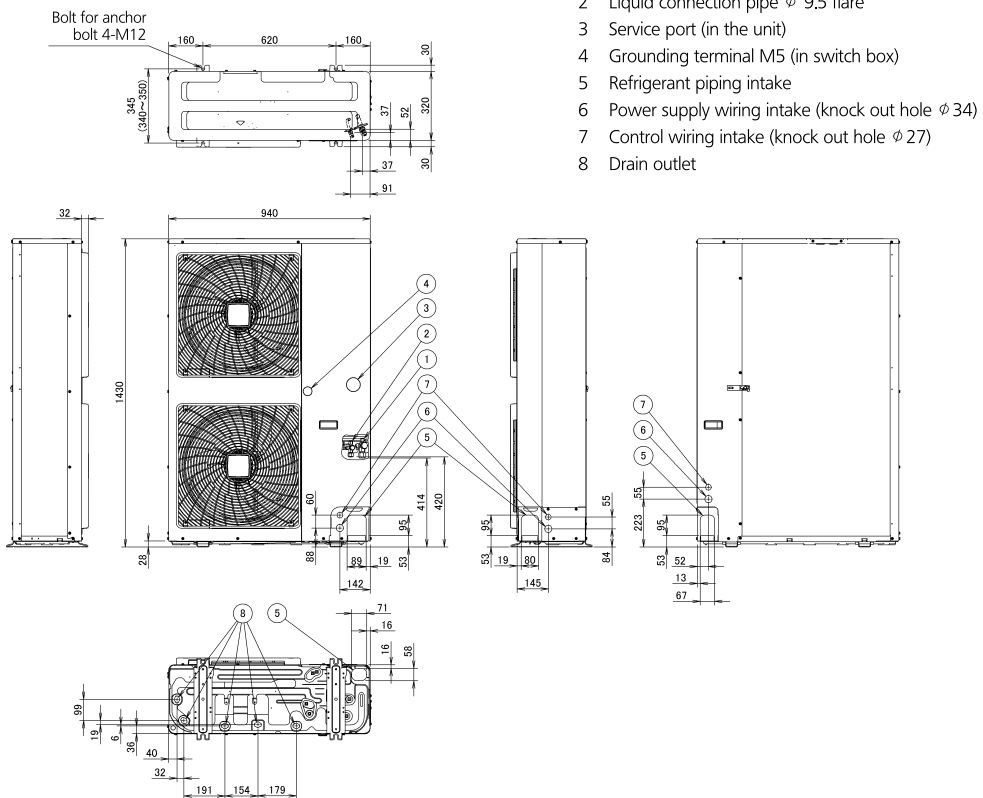
7

RZQG71L8Y1



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RZQG100-140L(8)Y1

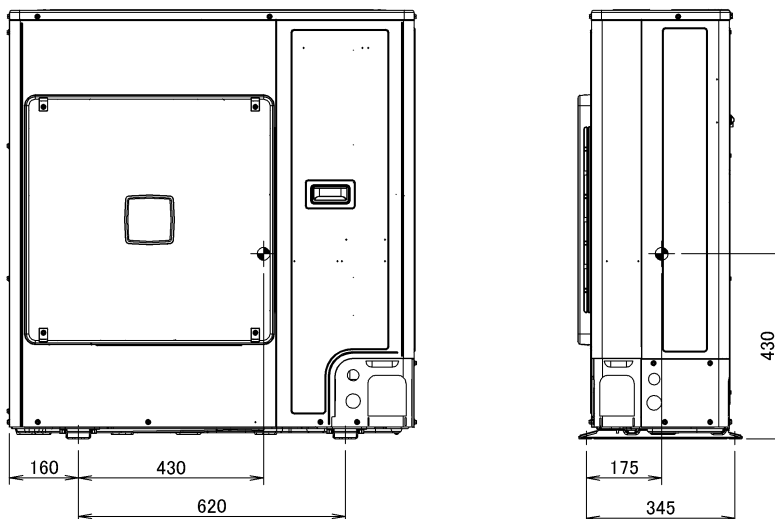


3D076346

8 Centre of gravity

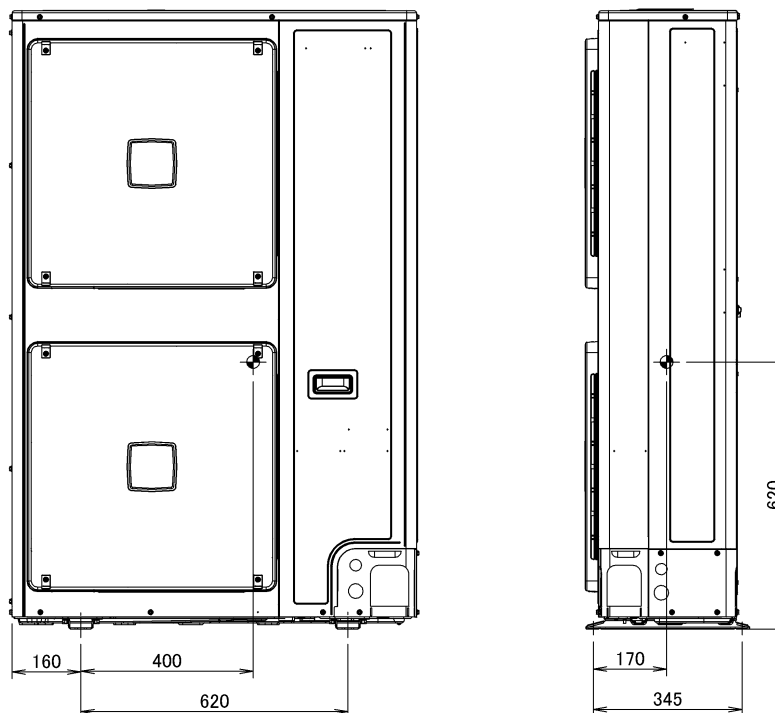
8 - 1 Centre of Gravity

RZQG71L8Y1



4D077807

RZQG100-140L(8)Y1

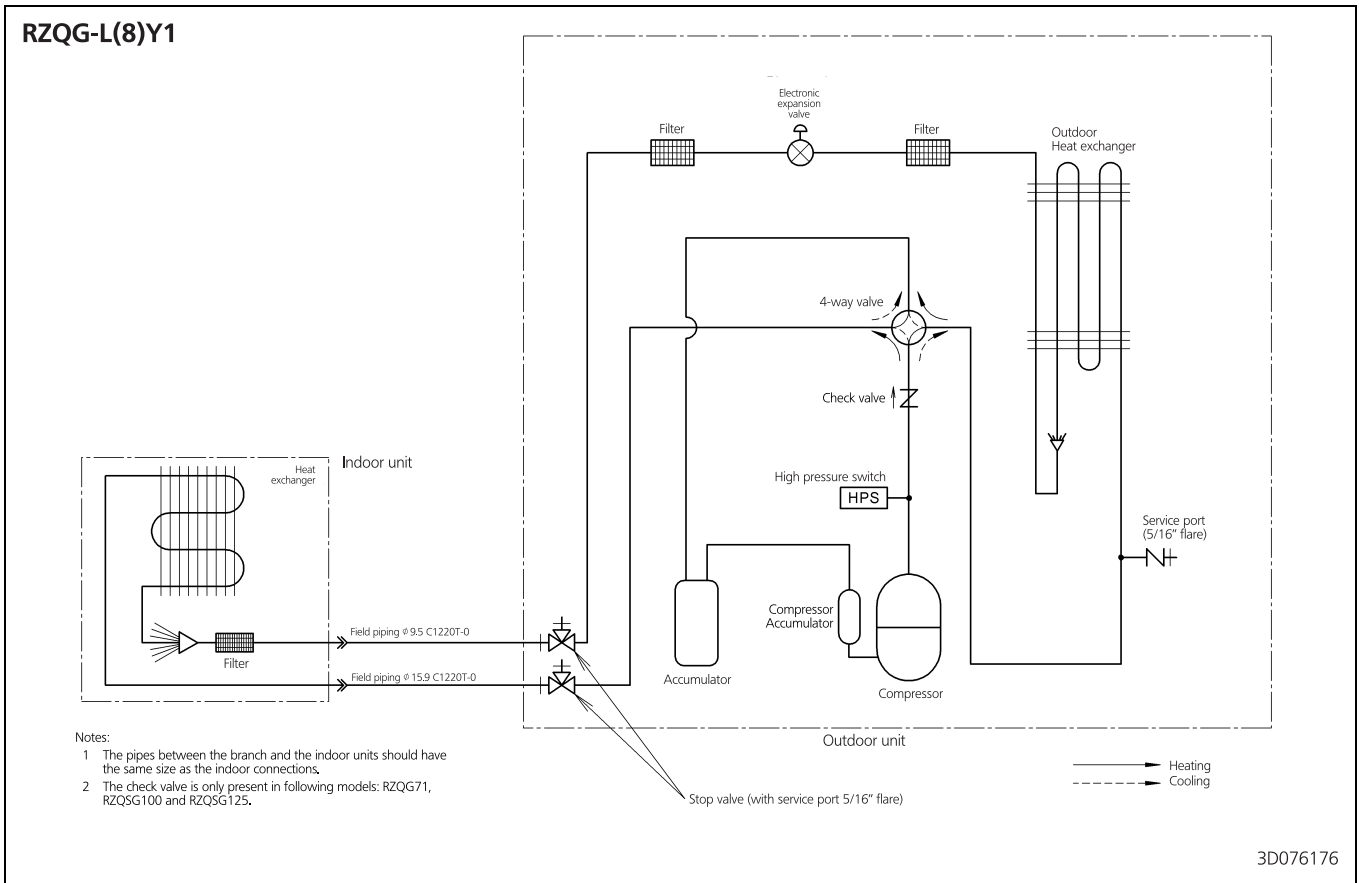


4D077808

9 Piping diagrams

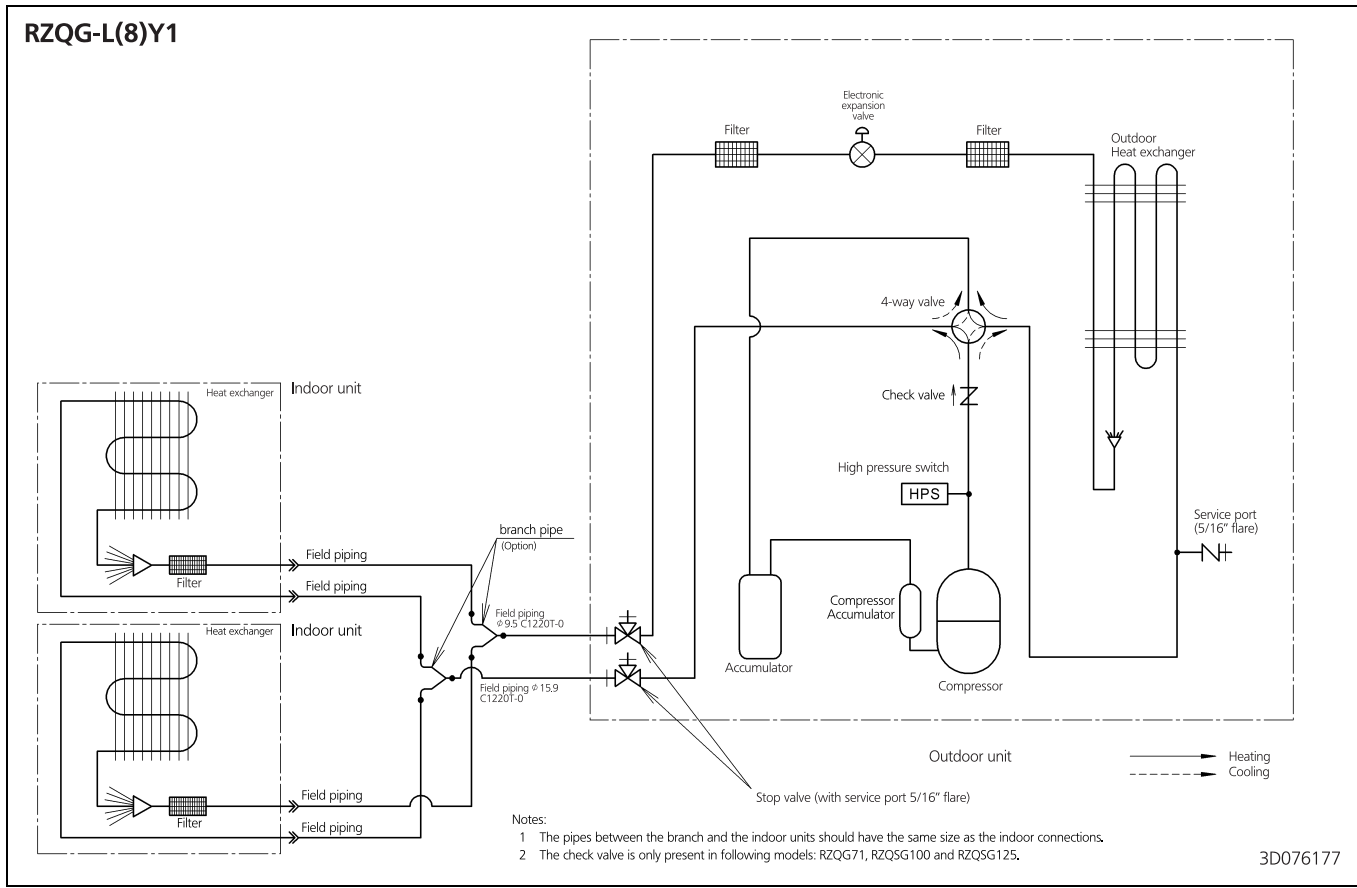
9 - 1 Piping Diagrams

9



9 Piping diagrams

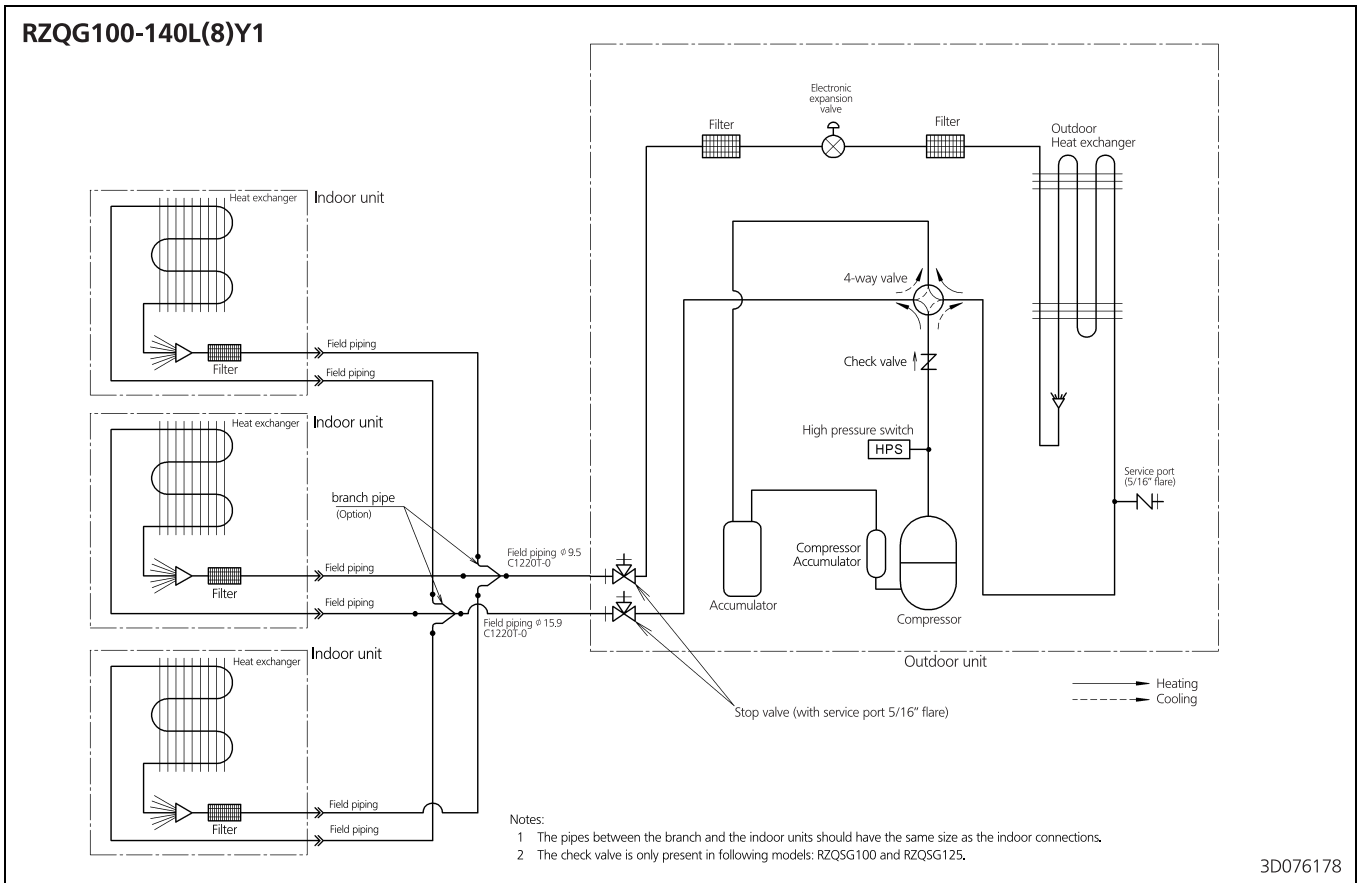
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

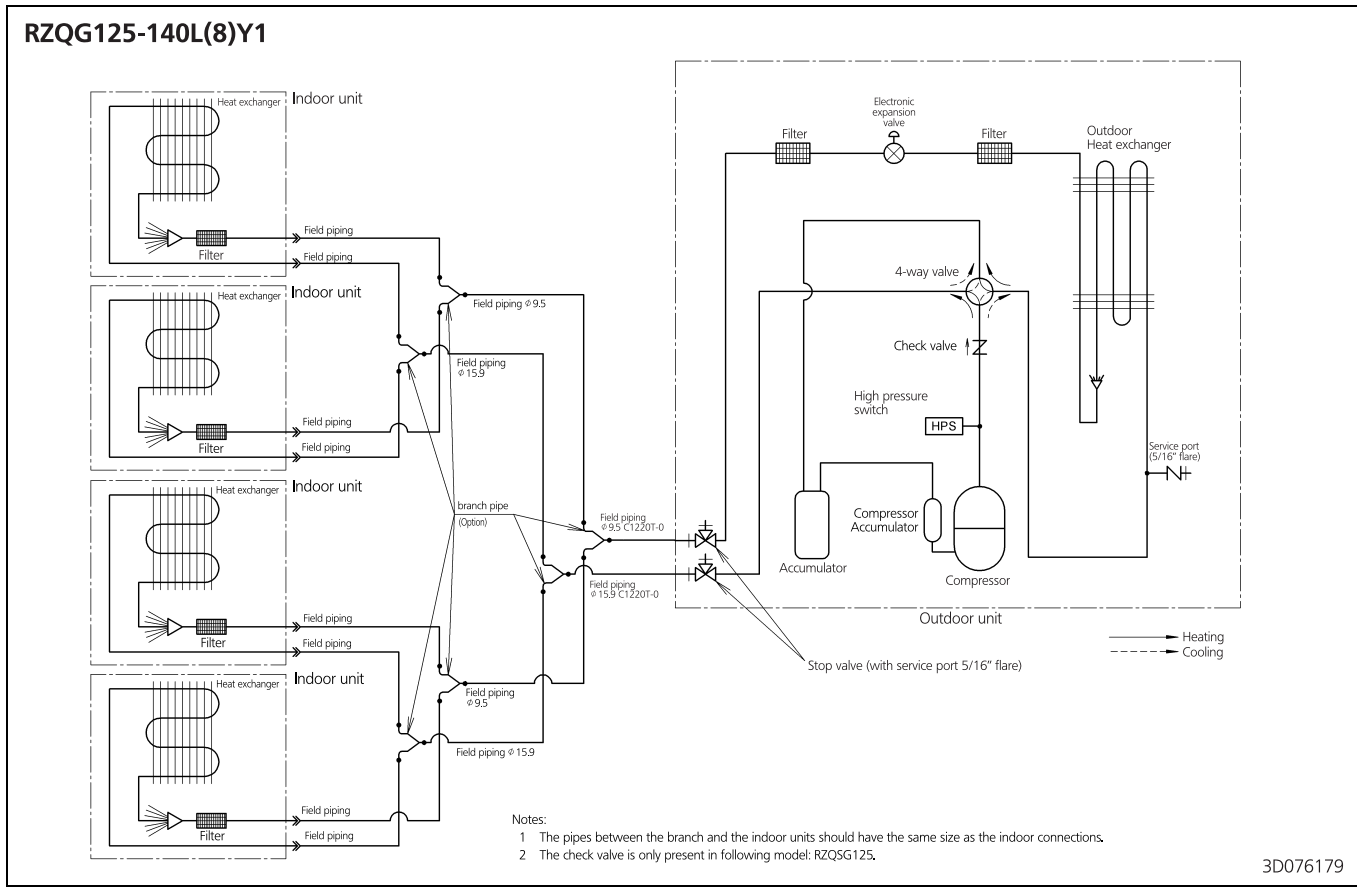
9 - 3 Piping Diagram Triple Application

9



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application



10 Wiring diagrams

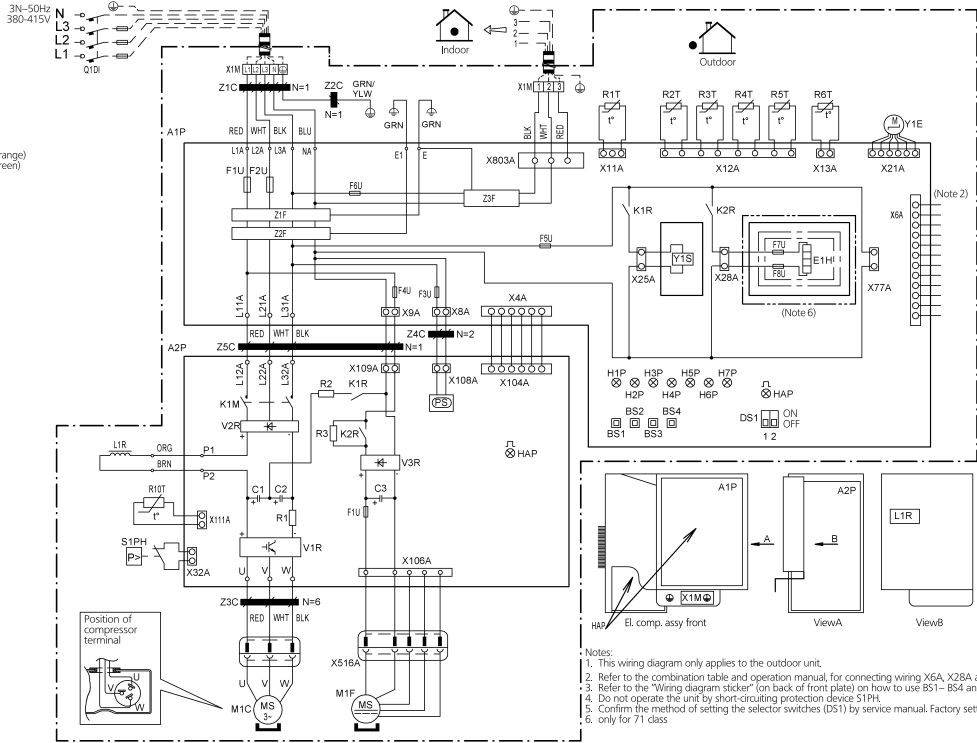
10 - 1 Wiring Diagrams - Three Phase

10

RZQG71L8Y1

- A1P : Printed circuit board (Inverter)
- 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 (T 6.3A / 250V)
- F7U-F8U : Fuse (F 1.0A / 250V)
- F9U (A2P) : Fuse (T 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- H4P(H1P A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (Y15)
- 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)
- 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)
- V1R : KGBT Power module
- V2R, V3R : Diode module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z5C : Noise filter (ferite core)
- Z1F-Z3F : Noise filter

- L: Live
- N: Neutral
- Field wiring
- 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



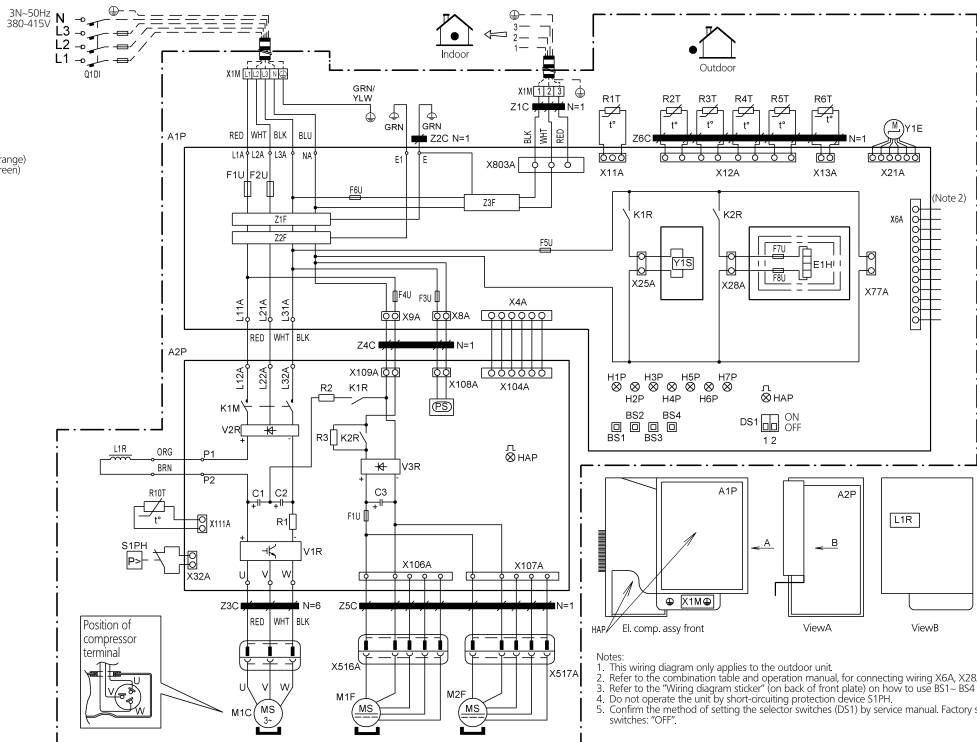
- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by short-circuiting protection device S1PH.
 5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".
 6. only for 71 class

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RZQG100-140L(8)Y1

- 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)
- F1U : Fuse (31.5A / 250V)
- F2U : Fuse (31.5A / 250V)
- F3U-F6U : Fuse (T 6.3A / 250V)
- F7U-F8U : Fuse (F 1.0A / 250V)
- F9U (A2P) : Fuse (F 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- H4P(H1P A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (Y15)
- 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)
- 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)
- V1R : KGBT Power module
- V2R, V3R : Diode module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z6C : Noise filter (ferite core)
- Z1F-Z3F : Noise filter

- L: Live
- N: Neutral
- Field wiring
- 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

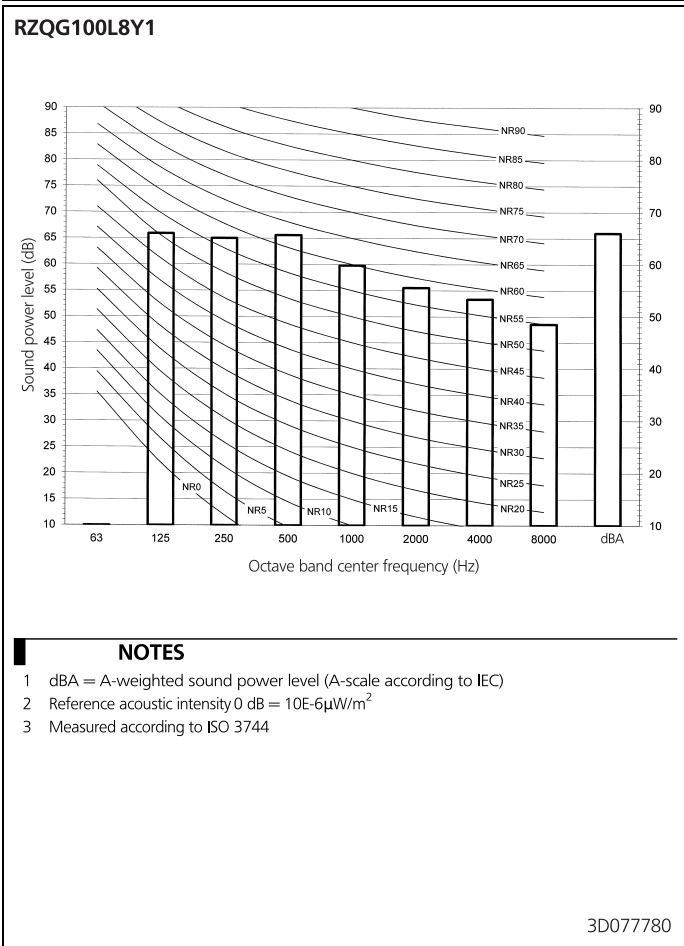
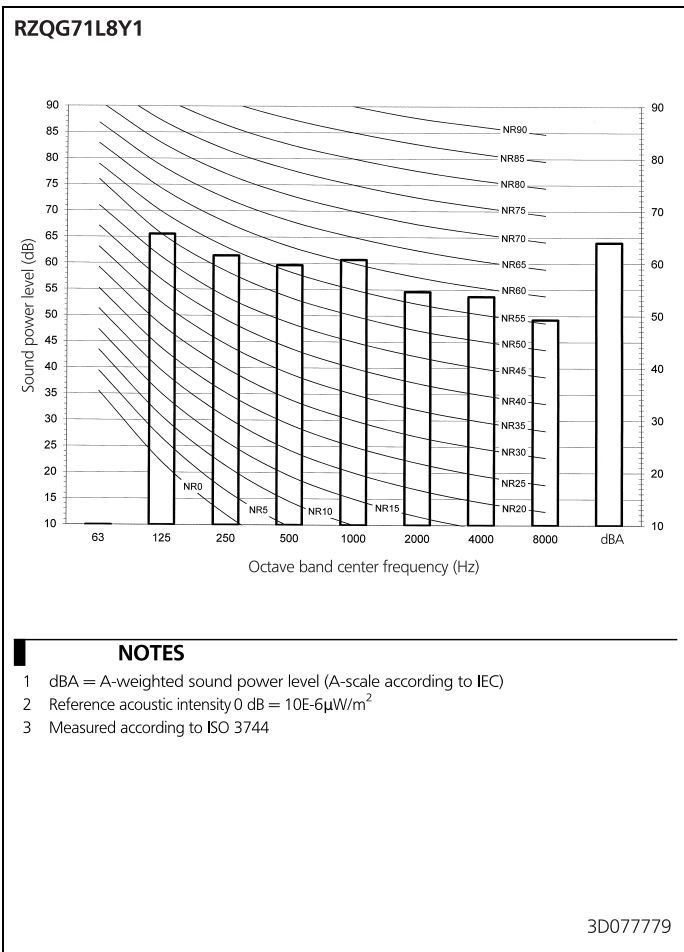


- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by 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

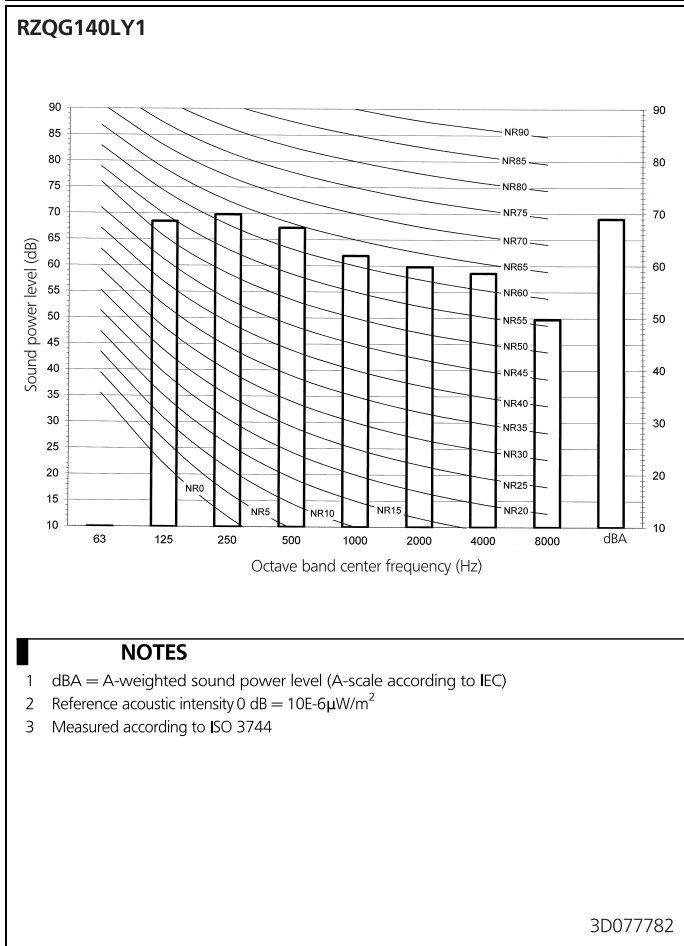
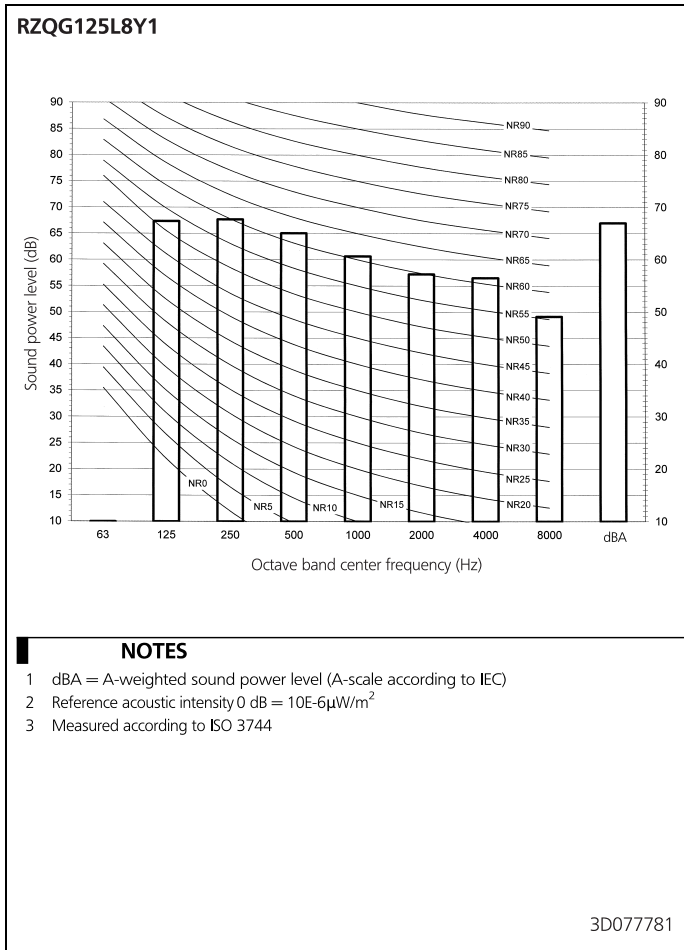
11 - 1 Sound Power Spectrum



11 Sound data

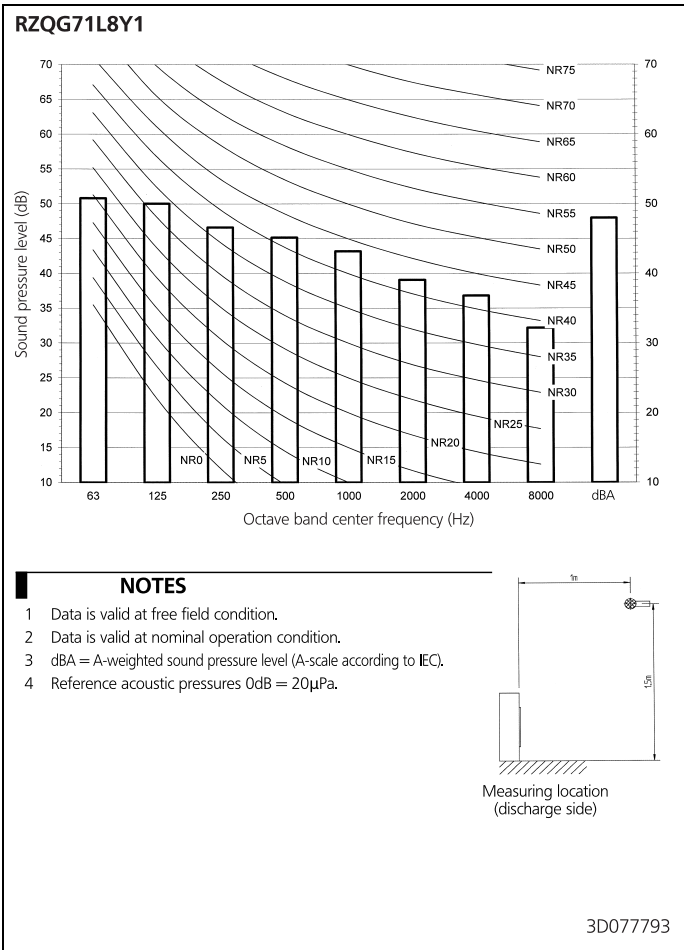
11 - 1 Sound Power Spectrum

11



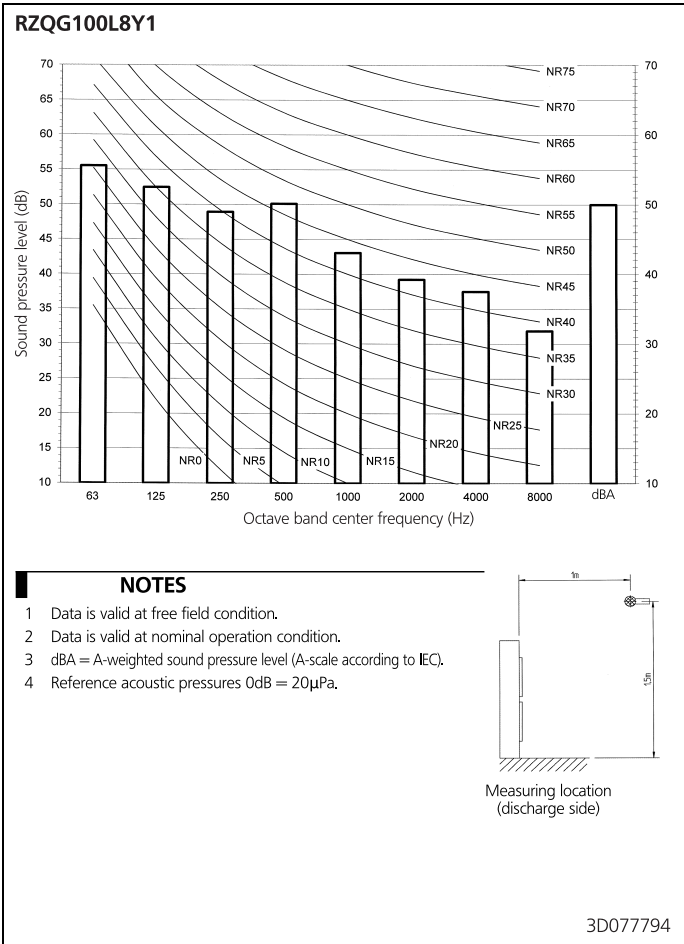
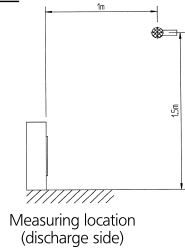
11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling



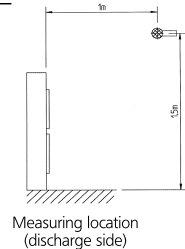
NOTES

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



NOTES

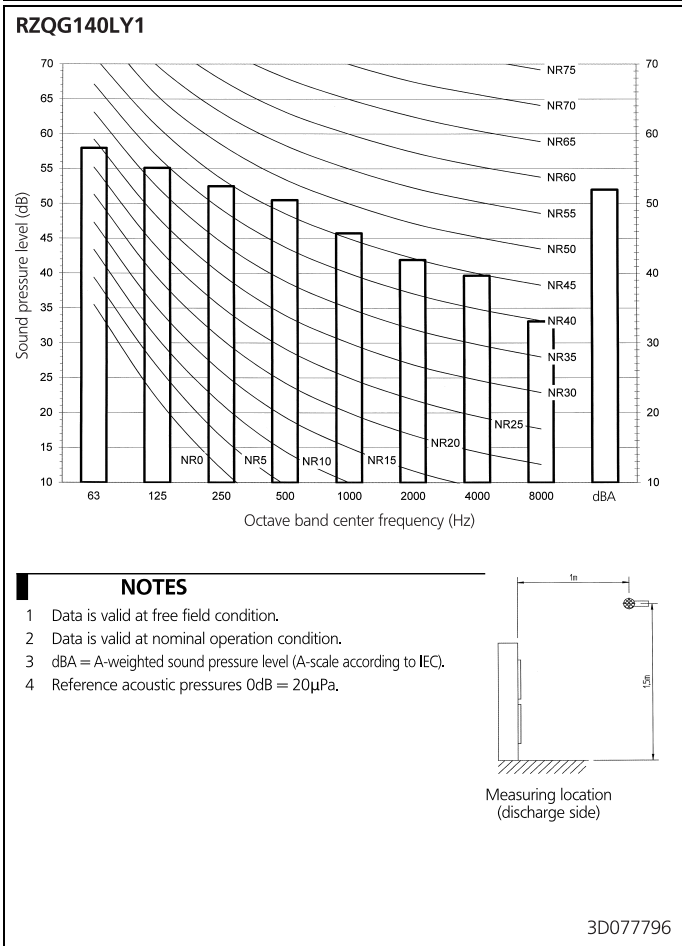
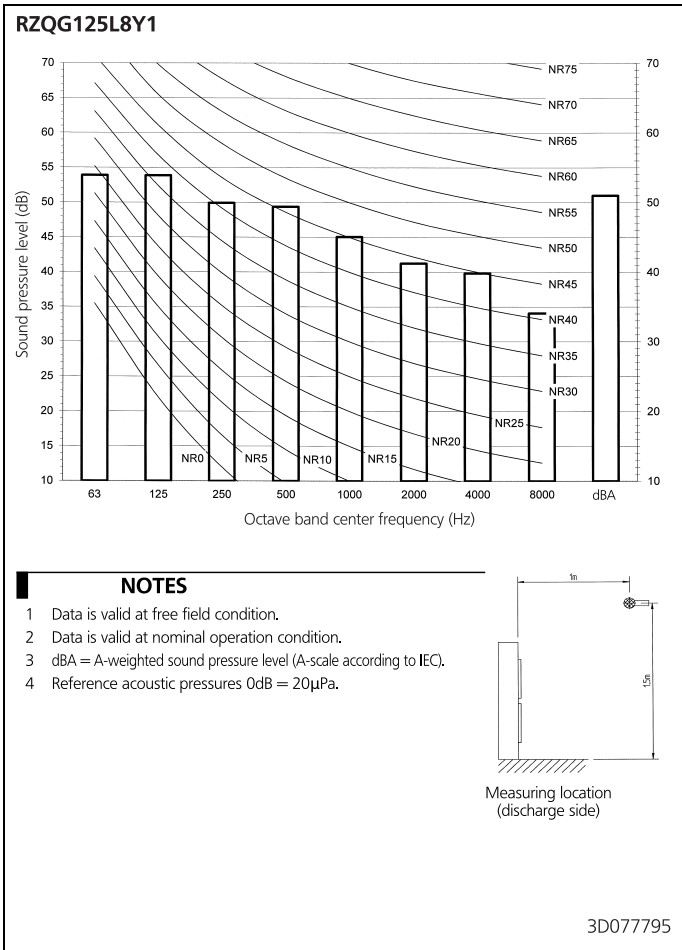
- 1 Data is valid at free field condition.
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- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressures 0dB = 20μPa.



11 Sound data

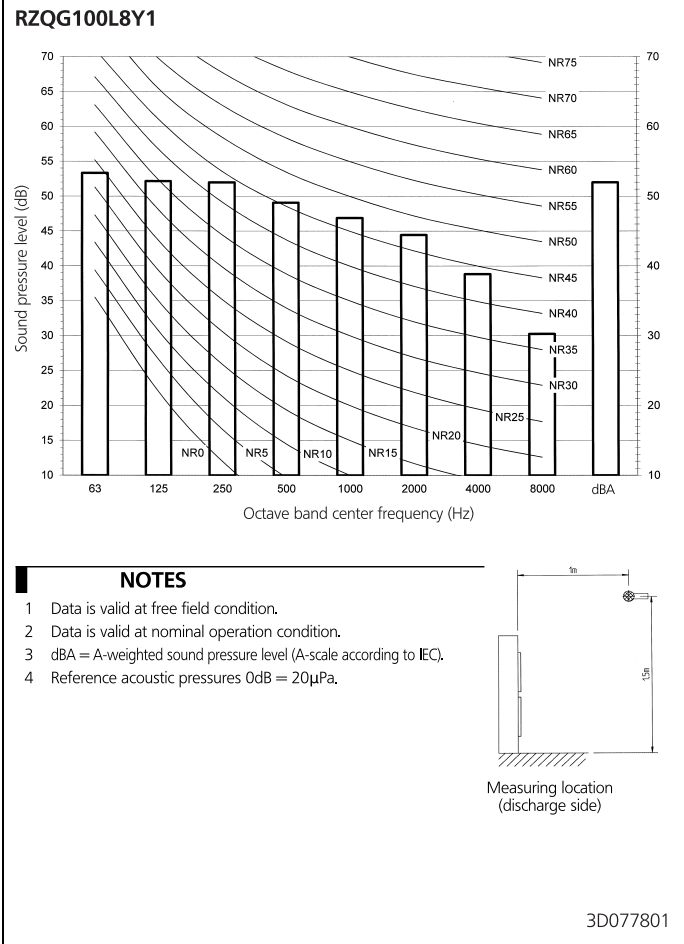
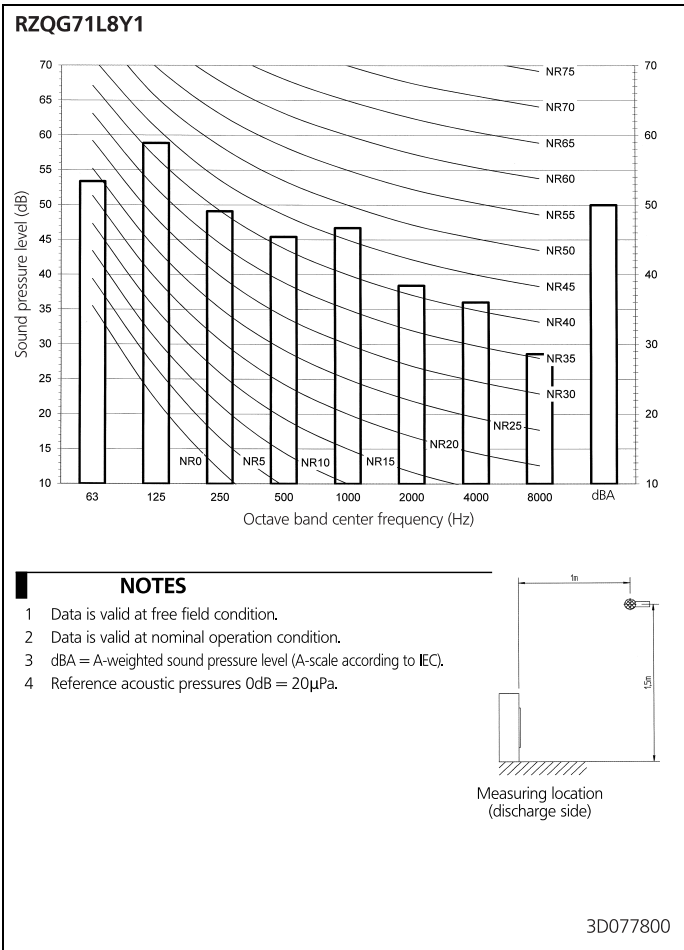
11 - 2 Sound Pressure Spectrum - Cooling

11



11 Sound data

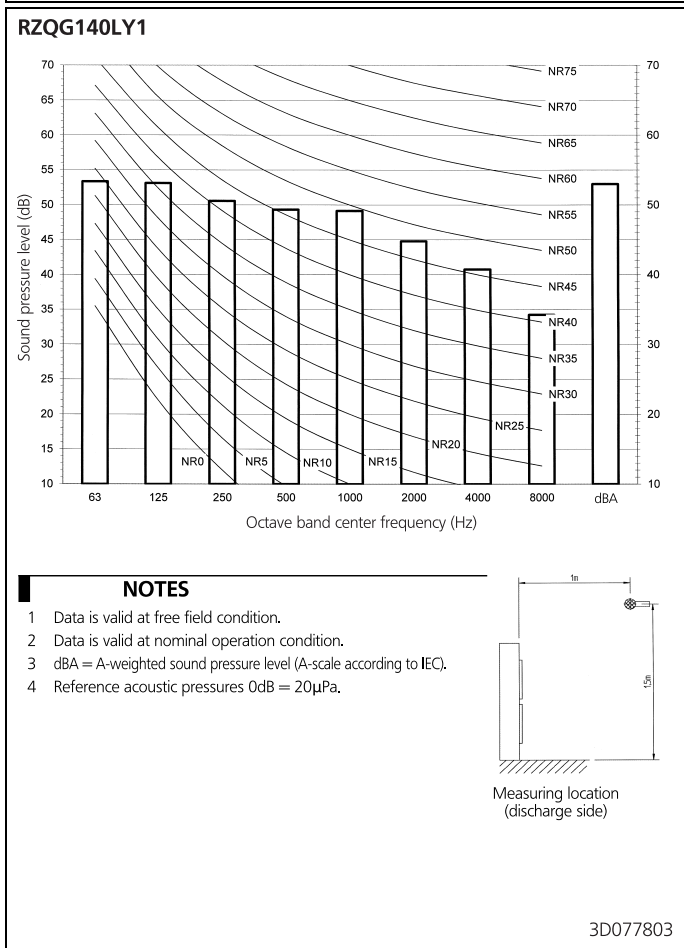
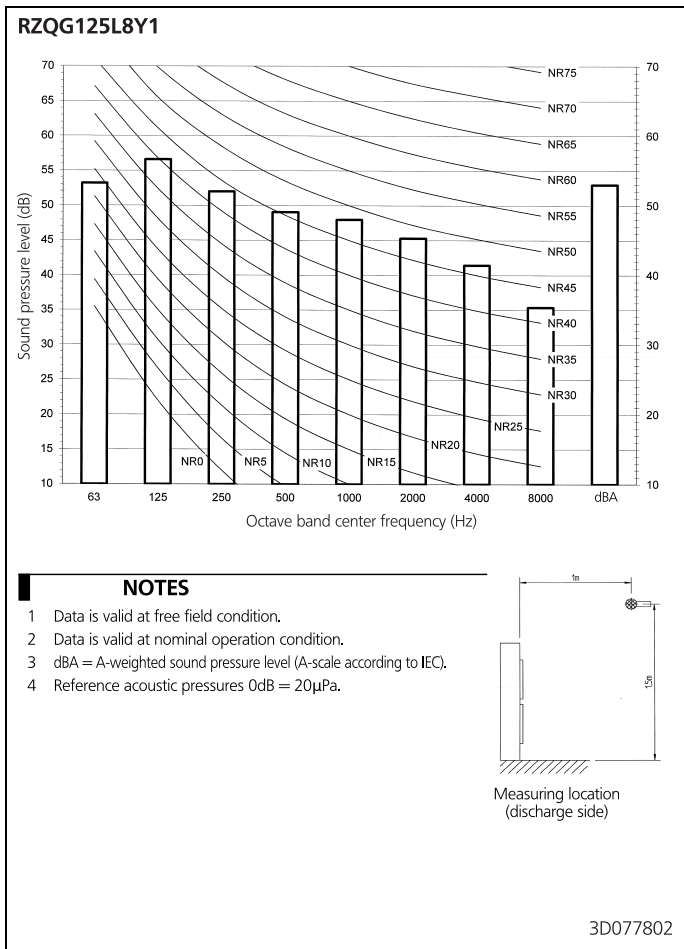
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

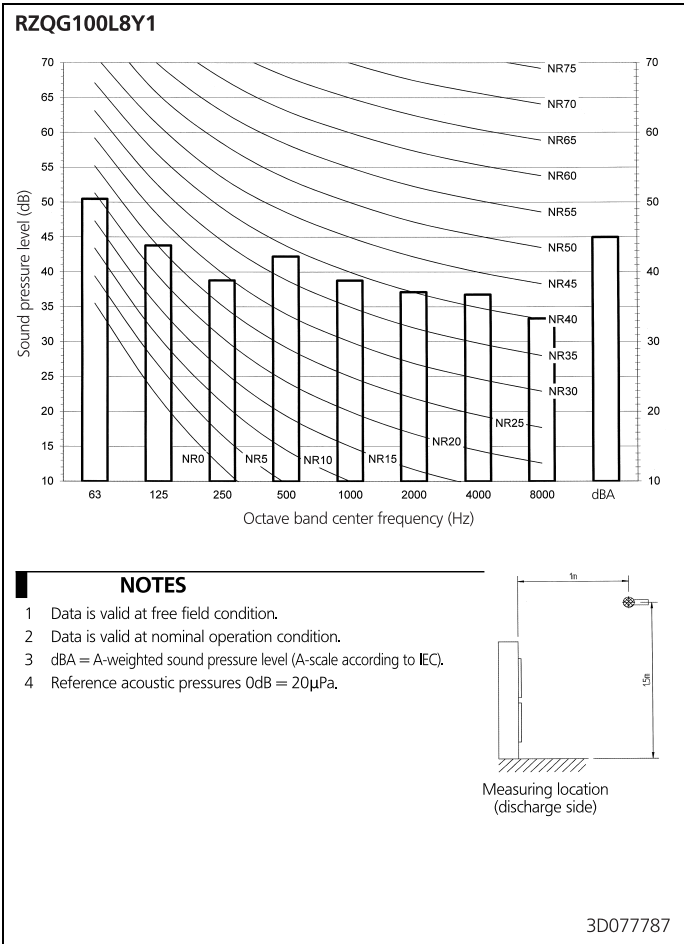
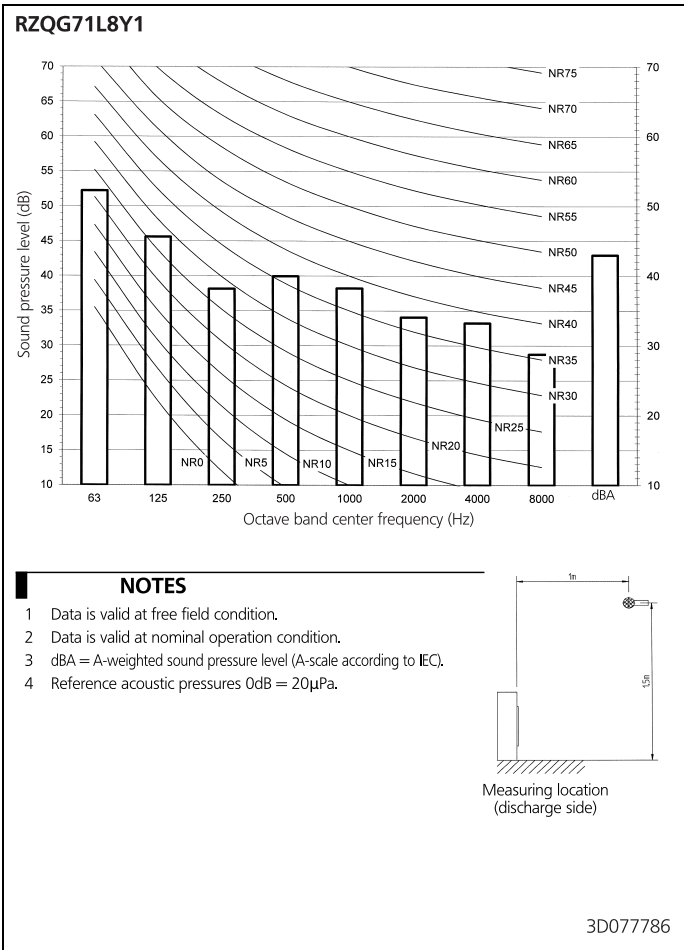
11 - 3 Sound Pressure Spectrum - Heating

11



11 Sound data

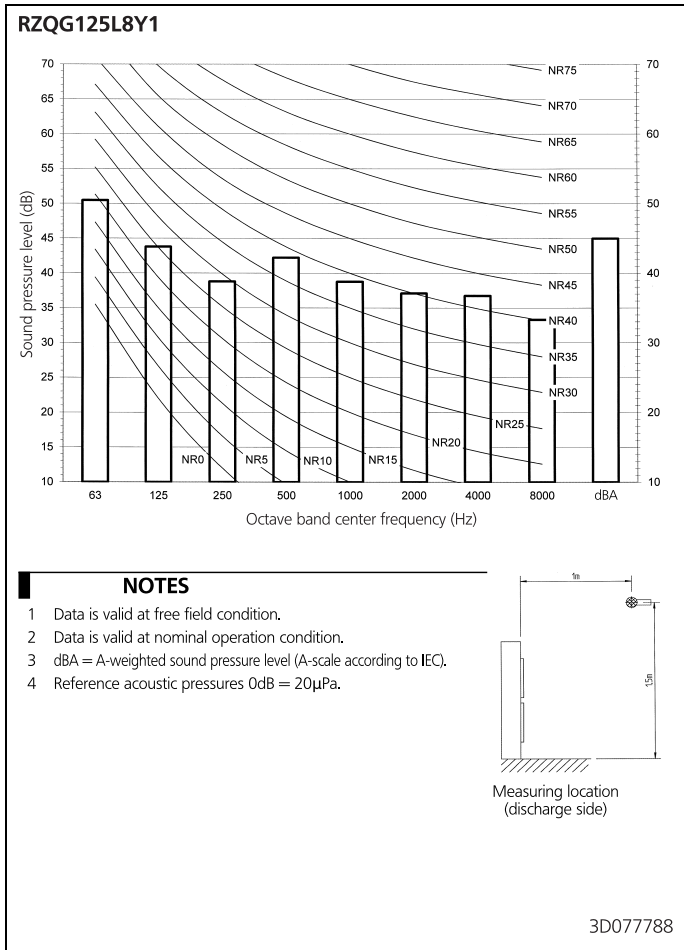
11 - 4 Sound Pressure Spectrum Quiet Mode



11 Sound data

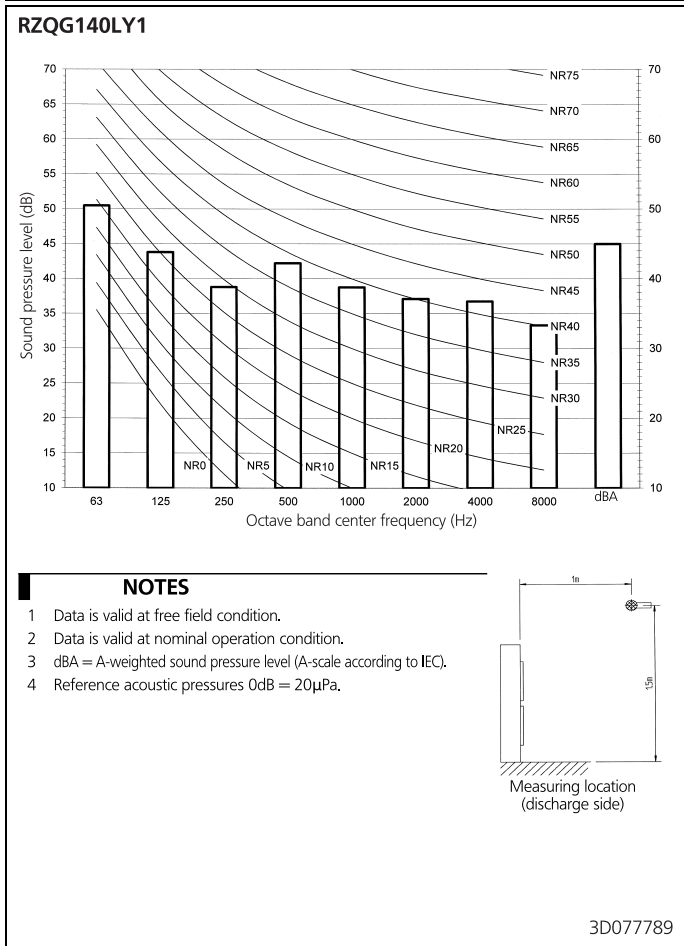
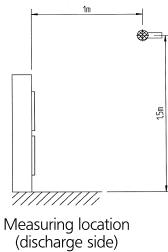
11 - 4 Sound Pressure Spectrum Quiet Mode

11



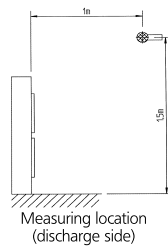
NOTES

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



NOTES

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



12 Installation

12 - 1 Installation Method

RZQG-L(8)Y1

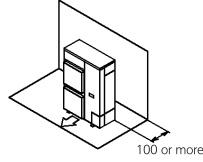
Installation service space

The measure of these values is "mm".

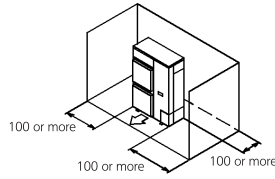
(A) When there are obstacles on suction sides.

• No obstacle above

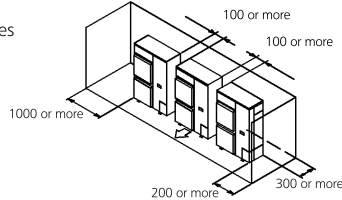
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

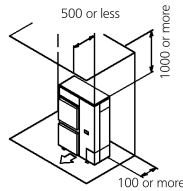


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

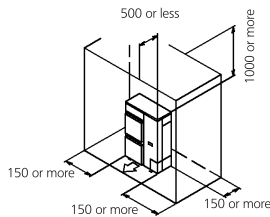


• Obstacle above, too.

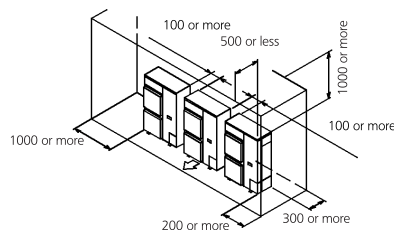
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



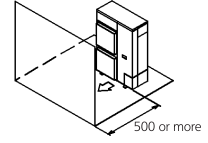
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



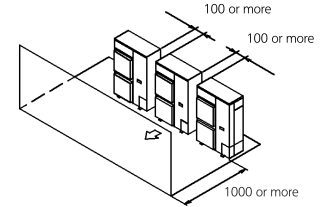
(B) When there are obstacles on discharge sides.

• No obstacle above

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

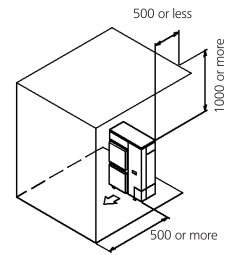


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

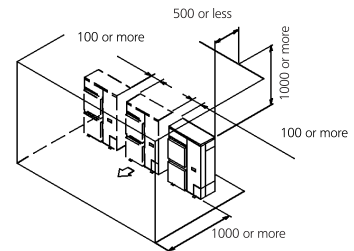


• Obstacle above, too

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



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



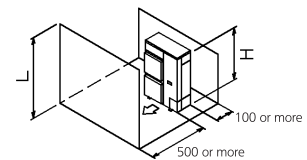
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

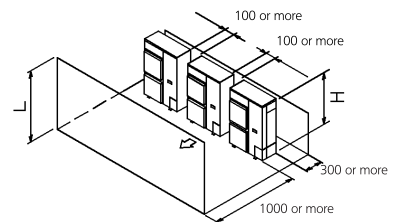
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



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12 Installation

12 - 1 Installation Method

12

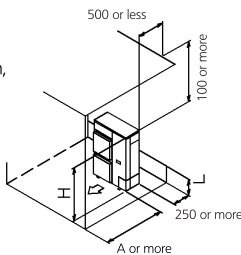
RZQG-L(8)Y1

● 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	

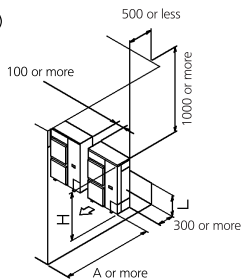


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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.

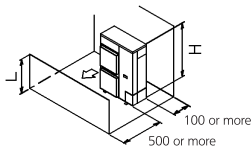


Pattern 2

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

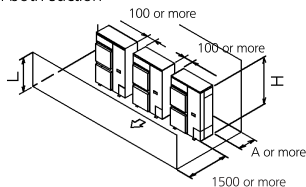
- ① Stand-alone installation
 - No obstacle above



- 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

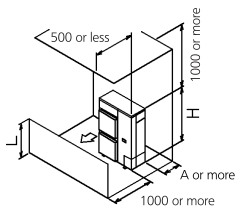


● Obstacle above, too

- 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	

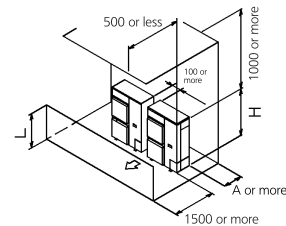


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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

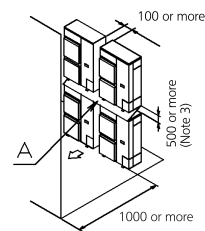
	L	A
$L \leq H$	$L \leq 1/2 H$	250 or more
	$1/2 H < L \leq H$	300 or more
$L > H$	Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

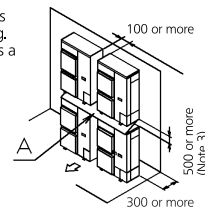


(D) Double-decker installation

- 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.

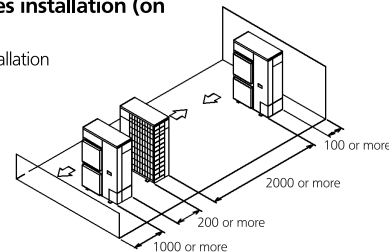


- ② Obstacle on the suction side. (Note 1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient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

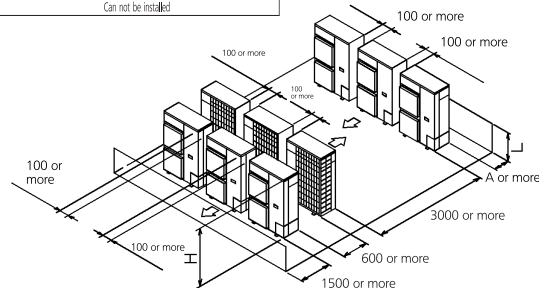
- ① One row of stand-alone installation



- 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

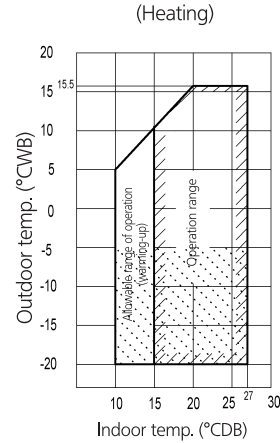
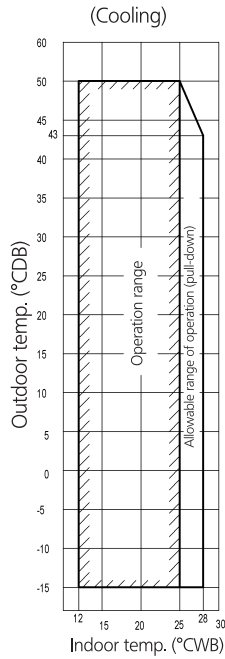
- In case of the sideways's piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between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

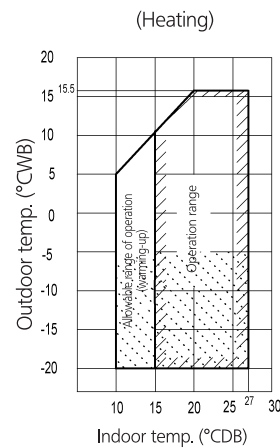
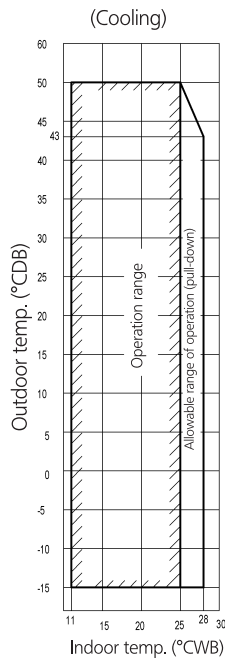


Notes:

- 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

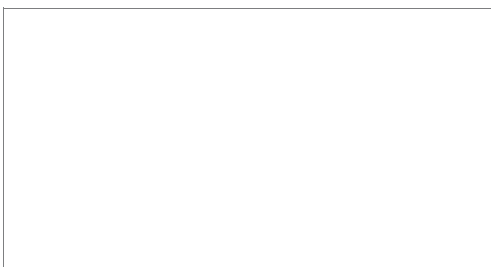


Notes:

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