



Air Conditioning Technical Data

Pair, Twin, Triple, double twin



EEDEN15-1005

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: - 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 computer room applications (EDP)
- Re-use of existing R-22 or R-407C technology
- Extended operation range down to -20°C in heating
- Maximum piping length up to 75m, minimum piping length is 5m.
- 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
- Seasonal efficiency, optimized for all seasons.
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Compatibility with D-BACS



Inverter



Auto cooling-
heating
changeover

2 Specifications

2-1 Capacity and Power input				FBO71D/ RZQG71L8Y1	FBO100D/ RZQG71L8Y1	FBO100D/ RZQG100L8Y 1	FBO140D/ RZQG100L8Y 1	FBO125D/ RZQG125L8Y 1	FBO140D/ RZQG125L8Y 1	FBO140D/ RZQG140LY1	
Indoor unit				FBO71D	FBO100D		FBO140D	FBO125D	FBO140D		
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1		RZQG125L8Y1		RZQG140L Y1	
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++		-	
		Pdesign	kW	6.80		9.50		12.00		-	
		SEER		6.16		5.87		6.11		-	
		Annual energy consumption	kWh	386		566		687		-	
	Heating (Average climate)	Energy label		A+		A++		A+		-	
		Pdesign	kW	6.00		11.30		12.70		-	
		SCOP		4.31		4.78		4.28		-	
		Annual energy consumption	kWh	1,949		3,310		4,154		-	
Ecolabel logo				no						-	
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	-	2,000
	Energy label	Cooling			A	-	A	-	A	-	-
		Heating			A	-	A	-	A	-	-

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 Capacity and Power input				FUQ71C/RZQG71L8Y1	FUQ100C/RZQG71L8Y1	FUQ100C/RZQG100L8Y1	FUQ125C/RZQG125L8Y1	
Indoor unit				FUQ71C	FUQ100C		FUQ125C	
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1	RZQG125L8Y1	
Cooling capacity	Nom.	kW	6.8	-	9.5	12.0		
Heating capacity	Nom.	kW	7.5	-	10.8	13.5		
Power input	Cooling	Nom.	kW	1.68	-	2.46	3.54	
	Heating	Nom.	kW	1.84	-	2.73	3.95	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			A+	
		Pdesign	kW	6.8		9.5	12	
		SEER		6.5		6.11	5.61	
		Annual energy consumption	kWh	367		545	749	
	Heating (Average climate)	Energy label		A+			-	
		Pdesign	kW	7.6		11.3	14.13	
		SCOP		4.2		4.5	4.44	
		Annual energy consumption	kWh	2,534		3,516	4,456	
Ecolabel logo				no				
Nominal efficiency	EER			4.05	-	3.86	3.39	
	COP			4.08	-	3.95	3.42	
	Annual energy consumption			kWh	840	-	1,230	1,770
	Energy label	Cooling			A	-	A	-
		Heating			A	-	A	B

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

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2-3 Capacity and Power input				FCQG71F/ RZQG71L8Y1	FCQG100F/ RZQG71L8Y1	FCQG100F/ RZQG100L8Y 1	FCQG140F/ RZQG100L8Y 1	FCQG125F/ RZQG125L8Y 1	FCQG140F/ RZQG125L8Y 1	FCQG140F/ RZQG140LY1
Indoor unit				FCQG71F	FCQG100F		FCQG140F	FCQG125F	FCQG140F	
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1		RZQG125L8Y1		RZQG140L Y1
Cooling capacity	Nom.	kW	6.8	-	9.5	-	12.0	-	13.4	
Heating capacity	Nom.	kW	7.5	-	10.8	-	13.5	-	15.5	
Power input	Cooling	Nom.	kW	2.01	-	2.45	-	3.22	-	4.17
	Heating	Nom.	kW	1.89	-	2.60	-	3.72	-	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++				A+		-
		Pdesign	kW	6.8		9.5		12		-
		SEER		6.8				6		-
		Annual energy consumption	kWh	350		489		700		-
	Heating (Average climate)	Energy label		A+		A++		A+		-
		Pdesign	kW	6.33		11.3		12.66		-
		SCOP		4.2		4.61		4.1		-
		Annual energy consumption	kWh	2,110		3,432		4,323		-
Ecolabel logo				no						-
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	-	2,085
	Energy label	Cooling	A	-	A	-	A	-		
Heating		A	-	A	-	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

2-4 Capacity and Power input				FHQ71C/ RZQG71L8 Y1	FHQ100C/ RZQG71L8 Y1	FHQ100C/ RZQG100L 8Y1	FHQ140C/ RZQG100L 8Y1	FHQ125C/ RZQG125L 8Y1	FHQ140C/ RZQG125L 8Y1	FHQ71C/ RZQG125L 8Y1	FHQ140C/ RZQG140L Y1
Indoor unit				FHQ71C	FHQ100C		FHQ140C	FHQ125C	FCQG140 F	FHQ71C	FHQ140C
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1		RZQG125L8Y1		RZQG140 LY1	
Cooling capacity	Nom.	kW	6.8	-	9.5	-	12.0	-	13.4		
Heating capacity	Nom.	kW	7.5	-	10.8	-	13.5	-	15.5		
Power input	Cooling	Nom.	kW	1.78	-	2.49	-	3.58	-	4.05	
	Heating	Nom.	kW	1.82	-	2.60	-	3.48	-	4.27	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++				A+		B	-
		Pdesign	kW	6.8		9.5		12		-	
		SEER		6.95		6.11		6.01		5.10	-
		Annual energy consumption	kWh	343		545		699		824	-
	Heating (Average climate)	Energy label		A+		A++		A+		A	-
		Pdesign	kW	7.6		11.3		14.13		12.71	-
		SCOP		4.32		4.61		4.23		3.80	-
		Annual energy consumption	kWh	2,463		3,432		4,677		4,683	-
Ecolabel logo				no						-	
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	-	1,245	-	1,790	-	2,025	
	Energy label	Cooling	A	-	A	-	A	-			
Heating		A	-	A	-	A	-				

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2 Specifications

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

2-5 Capacity and Power input				FVQ71C/ RZQG71L8Y1	FVQ100C/ RZQG71L8Y1	FVQ100C/ RZQG100L8Y 1	FVQ140C/ RZQG100L8Y 1	FVQ125C/ RZQG125L8Y 1	FVQ140C/ RZQG125L8Y 1	FVQ140C/ RZQG140LY1
Indoor unit				FVQ71C	FVQ100C		FVQ140C	FVQ125C	FVQ140C	
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1		RZQG125L8Y1		RZQG140L Y1
Cooling capacity	Nom.		kW	6.8	-	9.5	-	12.0	-	13.4
Heating capacity	Nom.		kW	7.5	-	10.8	-	13.5	-	15.5
Power input	Cooling	Nom.	kW	2.02	-	2.49	-	3.74	-	4.17
	Heating	Nom.	kW	2.06	-	2.61	-	3.65	-	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+				-
		Pdesign	kW	6.8		9.5		12		-
		SEER		6.31		5.61				-
		Annual energy consumption	kWh	378		593		749		-
	Heating (Average climate)	Energy label		A+		A				-
		Pdesign	kW	6.33		11.3				-
		SCOP		4.05		4.2		3.87		-
		Annual energy consumption	kWh	2,189		3,767		4,088		-
Ecolabel logo				no						-
Nominal efficiency	EER			3.37	-	3.81	-	3.21	-	3.21
	COP			3.64	-	4.14	-	3.70	-	3.61
	Annual energy consumption		kWh	1,010	-	1,245	-	1,870	-	2,085
	Energy label	Cooling		A	-	A	-	A	-	
Heating			A	-	A	-	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

2-6 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		4.21						
		Annual energy consumption	kWh	4,227						
Ecolabel logo				no						
Nominal efficiency	EER			3.75						
	COP			3.83						
	Annual energy consumption		kWh	1,600						
	Energy label	Cooling		A						
Heating			A							

2 Specifications

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

2-7 Capacity and Power input				FCQHG71F/ RZQG71L8Y1	FCQHG100F/ RZQG71L8Y1	FCQHG100F/ RZQG100L8Y 1	FCQHG140F/ RZQG100L8Y 1	FCQHG125F/ RZQG125L8Y 1	FCQHG140F/ RZQG125L8Y 1	FCQHG140F/ RZQG140LY1	
Indoor unit				FCQHG71F	FCQHG100F		FCQHG140 F	FCQHG125 F	FCQHG140F		
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1		RZQG125L8Y1		RZQG140L Y1	
Cooling capacity	Nom.	kW	6.8	-	9.5	-	12.0	-	13.4		
Heating capacity	Nom.	kW	7.5	-	10.8	-	13.5	-	15.5		
Power input	Cooling	Nom.	kW	1.66	-	2.15	-	3.00	-	4.00	
	Heating	Nom.	kW	1.56	-	2.16	-	3.07	-	3.77	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++						-	
		Pdesign	kW	6.8	9.5		12		-		
		SEER		7						6.61	-
		Annual energy consumption	kWh	340	475		636		-		
	Heating (Average climate)	Energy label		A+		A++				-	
		Pdesign	kW	7.6	11.3		12.66		-		
		SCOP		4.54		4.8		4.63		-	
		Annual energy consumption	kWh	2,344	3,296		3,829		-		
Ecolabel logo				no						-	
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	-	2,000	
	Energy label	Cooling		A	-	A	-	A	-		
		Heating		A	-	A	-	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

2-8 Capacity and Power input				FAQ71C/RZQG71L8Y1	FAQ100C/RZQG71L8Y1	FAQ100C/RZQG100L8Y1	
Indoor unit				FAQ71C	FAQ100C		
Outdoor unit				RZQG71L8Y1		RZQG100L8Y1	
Cooling capacity	Nom.	kW	6.8	-	9.5		
Heating capacity	Nom.	kW	7.5	-	10.8		
Power input	Cooling	Nom.	kW	2.00	-	2.63	
	Heating	Nom.	kW	2.03	-	3.00	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			
		Pdesign	kW	6.8	9.5		
		SEER		6.51			6.11
		Annual energy consumption	kWh	366	545		
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	6.33	10.2		
		SCOP		4.02		4.01	
		Annual energy consumption	kWh	2,205	3,562		
Ecolabel logo				no			
Nominal efficiency	EER		3.40	-	3.62		
	COP		3.70	-	3.61		
	Annual energy consumption		kWh	1,000	-	1,315	
	Energy label	Cooling		A	-	A	
		Heating		A	-	A	

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2 Specifications

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

2-9 Capacity and Power input				FNQ35A/ RZQG71L8Y1	FNQ50A/ RZQG100L8Y1	FNQ35A/ RZQG100L8Y1	FNQ60A/ RZQG125L8Y1	FNQ50A/ RZQG125L8Y1	FNQ35A/ RZQG125L8Y1	
Indoor unit				FNQ35A	FNQ50A	FNQ35A	FNQ60A	FNQ50A	FNQ35A	
Outdoor unit				RZQG71L8Y1	RZQG100L8Y1		RZQG125L8Y1			
Seasonal efficiency (according to EN14825)	Cooling	Energy label		B		A				
		Pdesign	kW	6.80	9.50		12.00			
		SEER		4.80	5.10					
		Annual energy consumption	kWh	496	652		824			
	Heating (Average climate)	Energy label		A						
		Pdesign	kW	6.00	11.30	10.74	12.71		11.30	
		SCOP		3.80						
		Annual energy consumption	kWh	2,211	4,164	3,957	4,683		4,164	
Ecolabel logo				no						
Nominal efficiency	EER		-							
	COP		-							
	Annual energy consumption		kWh	-						
	Energy label	Cooling		-						
Heating		-								
2-10 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)						
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.	m³/min	59	70		84		
			Super low	m³/min	-					
				cfm	-					
	Heating	Super low	Nom.	m³/min	49	62				
			m³/min	-						
			cfm	-						
Fan motor	Quantity			1	2					
	Model			Brushless DC motor						
	Output			W	94					
	Drive			Direct drive						
	Speed	Cooling	Super low	rpm	-					
			Heating	Super low	rpm	-				

2 Specifications

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2-10 Technical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Sound power level	Cooling		dBA	64	66	67	69
	Heating		dBA	-			
Sound pressure level	Cooling	Nom.	dBA	48	50	51	52
	Heating	Nom.	dBA	50	52	53	
	Night quiet mode	Level 1	dBA	43	45		
Operation range	Cooling	Ambient	Min.	°CDB -15			
			Max.	°CDB 50			
	Heating	Ambient	Min.	°CWB -20			
			Max.	°CWB 15.5			
Refrigerant	Type			R-410A			
	Charge		kg	2.9	4.0		
			TCO ₂ eq	6.1	8.4		
	Control			Expansion valve (electronic type)			
	GWP			2,087.5			
	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 (1)			
			Max.	m 50		m 75	
		System	Equivalent	m 70		m 90	
			Chargeless	m 30			
	Additional refrigerant charge			kg/m	See installation manual		
Level difference	IU - OU	Max.	m 30.0				
	IU - IU	Max.	m 0.5				
Heat insulation			Both liquid and gas pipes				
Defrost method			Reversed cycle				
Defrost control			Sensor for outdoor heat exchanger temperature				
Safety devices	Item	01	High pressure switch				
		02	Fan driver overload protector				
		03	Fuse				

2-11 Electrical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Power supply	Name			Y1			
	Phase			3N-			
	Frequency		Hz	50			
	Voltage		V	380-415			
	Voltage range	Min.	%	10			
		Max.	%	10			
Current - 50Hz	Maximum fuse amps (MFA)		A	16	20	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				

2 Specifications

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

3 Electrical data

3 - 1 Electrical Data

3

RZQG71-100L8Y1

Indoor	Outdoor	Phase - Hz Power supply	Voltage range	MCA	TOCA	MFA	Comp		OFM		IFM				
							MSC	RLA	kW	FLA	kW	FLA			
FCQG71EVEB	RZQG71L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	11.5	—	16	—	9.6	0.094	0.4	0.048	0.4			
FCQH71FVEB				11.6	—	16	—	9.6	0.094	0.4	0.091	0.5			
FCQG35FVEB *2				11.8	—	16	—	9.6	0.094	0.4	0.044*2	0.3*2			
FCQG71FVEB				11.5	—	16	—	9.6	0.094	0.4	0.054	0.4			
FFQ35C2VEB *2				12.0	—	16	—	9.6	0.094	0.4	0.05*2	0.4*2			
FDXS35F2VEB *2				11.8	—	16	—	9.6	0.094	0.4	0.034*2	0.3*2			
FBQ35C8VEB *2				14.0	—	16	—	9.6	0.094	0.4	0.140*2	1.2*2			
FBQ71C8VEB				12.4	—	16	—	9.6	0.094	0.4	0.350	1.1			
FAQ71CVEB				11.5	—	16	—	9.6	0.094	0.4	0.048	0.4			
FVQ71CVEB				11.8	—	16	—	9.6	0.094	0.4	0.117	0.6			
FHQ35CAVEB *2				12.5	—	16	—	9.6	0.094	0.4	0.060x2	0.6 x 2			
FHQ71CAVEB				12.0	—	16	—	9.6	0.094	0.4	0.091	0.8			
FUQ71CVEB				12.1	—	16	—	9.6	0.094	0.4	0.046	0.9			
FCQG100EVEB				RZQG100L8Y1B	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
FCQH100FVEB							18.1	—	20	—	14.2	0.094+0.094	0.4+0.4	0.221	1.3
FCQG35FVEB *3							17.6	—	20	—	14.2	0.094+0.094	0.4+0.4	0.044*3	0.3*3
FCQG50FVEB *2	17.3	—	20				—	14.2	0.094+0.094	0.4+0.4	0.039*2	0.3*2			
FCQG100FVEB	17.4	—	20				—	14.2	0.094+0.094	0.4+0.4	0.117	0.7			
FFQ35C2VEB *3	18.0	—	20				—	14.2	0.094+0.094	0.4+0.4	0.05*3	0.4*3			
FFQ50C2VEB *2	17.5	—	20				—	14.2	0.094+0.094	0.4+0.4	0.05*2	0.4*2			
FDXS35F2VEB *3	17.6	—	20				—	14.2	0.094+0.094	0.4+0.4	0.034*3	0.3*3			
FDXS50F2VEB9 *2	17.8	—	20				—	14.2	0.094+0.094	0.4+0.4	0.06x2	0.5x2			
FBQ35C8VEB *3	21.0	—	25				—	14.2	0.094+0.094	0.4+0.4	0.140*3	1.2*3			
FBQ50C8VEB *2	19.5	—	20				—	14.2	0.094+0.094	0.4+0.4	0.140*2	1.2*2			
FBQ100C8VEB	18.5	—	20				—	14.2	0.094+0.094	0.4+0.4	0.350	1.6			
FAQ100CVEB	17.0	—	20				—	14.2	0.094+0.094	0.4+0.4	0.064	0.4			
FVQ100CVEB	18.0	—	20				—	14.2	0.094+0.094	0.4+0.4	0.238	1.2			
FHQ35CAVEB *3	18.8	—	20				—	14.2	0.094+0.094	0.4+0.4	0.060 x 3	0.6 x 3			
FHQ50CAVEB *2	18.0	—	20				—	14.2	0.094+0.094	0.4+0.4	0.060 x 2	0.6 x 2			
FHQ100CAVEB	18.1	—	20				—	14.2	0.094+0.094	0.4+0.4	0.150	1.3			
FUQ100CVEB	18.1	—	20				—	14.2	0.094+0.094	0.4+0.4	0.106	1.3			

SYMBOLS

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

NOTES

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

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RZQG125-140L(8)Y1

Indoor	Outdoor	Phase - Hz Power supply	Voltage range				Comp		OFM		IFM		
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	
FCQG125EVEB	RZQG125L8Y1B	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				18,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,244	1,4	
FCQG35FVEB				x4	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,044x4	0,3x4
FCQG50FVEB				x3	17,6	—	20	—	14,2	0,094+0,094	0,4+0,4	0,039x3	0,3x3
FCQG60FVEB				x2	17,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,044x2	0,3x2
FCQG125FVEB					17,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,168	1,0
FFQ35C2VEB				x4	18,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x4	0,4x4
FFQ50C2VEB				x3	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x3	0,4x3
FFQ60C2VEB				x2	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x2	0,6x2
FDXS35F2VEB				x4	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,034x4	0,3x4
FDXS50F2VEB9				x3	18,4	—	20	—	14,2	0,094+0,094	0,4+0,4	0,06x3	0,5x3
FDXS50F2VEB				x2	17,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,060x2	0,5x2
FBQ35C8VEB				x4	22,5	—	25	—	14,2	0,094+0,094	0,4+0,4	0,140x4	1,2x4
FBQ50C8VEB				x3	21,0	—	25	—	14,2	0,094+0,094	0,4+0,4	0,140x3	1,2x3
FBQ60C8VEB				x2	19,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,350x2	1,1x2
FBQ125C8VEB					19,1	—	20	—	14,2	0,094+0,094	0,4+0,4	0,350	2,1
FDQ125C7VEB					19,1	—	20	—	14,2	0,094+0,094	0,4+0,4	0,350	2,1
FVQ125CVEB					18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,238	1,2
FHQ35CAVEB				x4	19,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 4	0,6 x 4
FHQ50CAVEB				x3	18,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,060 x 3	0,6 x 3
FHQ60CAVEB				x2	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,091 x 2	0,6 x 2
FHQ125CAVEB					18,4	—	20	—	14,2	0,094+0,094	0,4+0,4	0,150	1,5
FUQ125CVEB					18,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,106	1,4
FCQG71EVEB				x2	17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,048x2	0,4x2
FCQG140EVEB					17,9	—	20	—	14,2	0,094+0,094	0,4+0,4	0,106	1,1
FCQHG71FVEB				x2	17,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,091x2	0,5x2
FCQHG140FVEB					18,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,244	1,4
FCQG35FVEB				x4	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,044x4	0,3x4
FCQG50FVEB				x3	17,6	—	20	—	14,2	0,094+0,094	0,4+0,4	0,039x3	0,3x3
FCQG71FVEB				x2	17,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,054x2	0,4x2
FCQG140FVEB		17,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,168	1,0			
FFQ35C2VEB	x4	18,5	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x4	0,4x4			
FFQ50C2VEB	x3	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,05x3	0,4x3			
FDXS35F2VEB	x4	18,0	—	20	—	14,2	0,094+0,094	0,4+0,4	0,034x4	0,3x4			
FDXS50F2VEB9	x4	18,4	—	20	—	14,2	0,094+0,094	0,4+0,4	0,06x3	0,5x3			
FBQ35C8VEB	x4	22,5	—	25	—	14,2	0,094+0,094	0,4+0,4	0,140x4	1,2x4			
FBQ50C8VEB	x3	21,0	—	25	—	14,2	0,094+0,094	0,4+0,4	0,140x3	1,2x3			
FBQ71C8VEB	x2	19,3	—	20	—	14,2	0,094+0,094	0,4+0,4	0,350x2	1,1x2			
FBQ140C8VEB		19,1	—	20	—	14,2	0,094+0,094	0,4+0,4	0,350	2,1			
FHQ140CAVEB		18,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,150	1,8			
FUQ71CVEB	x2	18,8	—	20	—	14,2	0,094+0,094	0,4+0,4	0,046 x 2	0,9 x 2			

SYMBOLS

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

NOTES

- 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
- TOCA means the total value of each OC set.
- Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- Maximum allowable voltage variation between phases is 2%.
- MCA represents maximum input current, MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
- Select wire size based on the larger value of MCA or TOCA.
- MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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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 $S_{sc}^{(2)} \geq$ minimum Ssc value.
- ⁽¹⁾ European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and \leq 75A per phase.
- ⁽²⁾ Short-circuit power

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 \sim 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
- 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		
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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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
- 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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3 Electrical data

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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

- 1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- 2 Select the wire size according to the MCA.
- 3 The maximum allowable voltage that is unbalanced between phases is 2%.
- 4 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

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
FFQ50C2VEB	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	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	RZQG71L8Y1B			12.6	--	16	--	9.6	0.094	0.4	0.150	1.3
FUQ100CVEB	RZQG71L8Y1B			12.6	--	16	--	9.6	0.094	0.4	0.106	1.3
FAQ100CVEB	RZQG71L8Y1B			11.5	--	16	--	9.6	0.094	0.4	0.064	0.4
FVQ100CVEB	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	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	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	RZQG100L8Y1B	18.8	--	20	--	14.2	0.094+0.094	0.4+0.4	0.150	1.0		
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	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

3

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	x2	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	x2	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	x2	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	x2	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	x2	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	x2	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	x2	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	x2	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	x2	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	x2	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-L9V1 RZQG-L(8)Y1

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

(*): Maximum capacity of outdoor units

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	
Model	FCQHG71FVEB FCQHG100FVEB FCQHG125FVEB FCQHG140FVEB	FCQG38FVEB FCQG59FVEB FCQG69FVEB	FCQG71FVEB FCQG100FVEB FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB FFQ50C2VEB FFQ60C2VEB	FFQ80C2VEB	FBQ35C8VEB FBQ50C8VEB FBQ60C8VEB	FBQ71C8VEB FBQ100C8VEB FBQ125C8VEB	FBQ140C8VEB	FHQ35BV1B8 FHQ50BV1B8 FHQ60BV1B8	FHQ71CVEB FHQ100CVEB FHQ125CVEB	FHQ140CVEB	FUQ100CVEB FUQ125CVEB	FUQ140CVEB	FAQ100CVEB	FAQ125CVEB	FVQ125CVEB FVQ100CVEB FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB FDXS50F2VEB FDXS60F2VEB	FDXS71F2VEB FDXS100F2VEB FDXS125F2VEB		
RZQG71L9V1B	RZQG71L8Y1B	P			2		P			2			P								2	
RZQG100L9V1B	RZQG100L8Y1B		P		3	2				3	2		P								3	2
RZQG125L9V1B	RZQG125L8Y1B			P	4	3	2			4	3	2		P							4	3
RZQG140L9V1B	RZQG140L7Y1B	2			P					4	3	2		P							4	3

Sky Air	Duct (medium ESP)	Concealed floor standing type	
Model	FBQ35D2VEB FBQ50D2VEB FBQ60D2VEB FBQ71D2VEB FBQ100D2VEB FBQ125D2VEB FBQ140D2VEB	FNQ25A2VEB FNQ35A2VEB FNQ50A2VEB	FNQ60A2VEB
RZQG71L9V1B	RZQG71L8Y1B	2	
RZQG100L9V1B	RZQG100L8Y1B	3	2
RZQG125L9V1B	RZQG125L8Y1B	4	3
RZQG140L9V1B	RZQG140L7Y1B	4	3

Notes

- The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- 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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RZQG-L9V1 RZQG-L(8)Y1

Infrastructure cooling

SkyAir	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
Model	FCQHG71FVEB FCQHG100FVEB FCQHG125FVEB FCQHG140FVEB	FCQG38FVEB FCQG59FVEB FCQG69FVEB	FCQG71FVEB FCQG100FVEB FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB FFQ50C2VEB FFQ60C2VEB	FFQ80C2VEB	FBQ35D2VEB FBQ50D2VEB FBQ60D2VEB	FBQ71D2VEB FBQ100D2VEB FBQ125D2VEB	FBQ140D2VEB	FHQ35CAVEB FHQ50CAVEB FHQ60CAVEB	FHQ71CAVEB FHQ100CAVEB FHQ125CAVEB	FHQ140CAVEB	FUQ100CVEB FUQ125CVEB	FUQ140CVEB	FAQ100CVEB	FAQ125CVEB	FVQ125CVEB FVQ100CVEB FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB FDXS50F2VEB FDXS60F2VEB	FDXS71F2VEB FDXS100F2VEB FDXS125F2VEB	FNQ35A2VEB FNQ50A2VEB FNQ60A2VEB		
RZQG71L9V1B	RZQG71L8Y1B	P			3	2				3	2		P										
RZQG100L9V1B	RZQG100L8Y1B		P		4	3	2			4	3	2		P								3	2
RZQG125L9V1B	RZQG125L8Y1B			P	4	3	2			4	3	2		P								4	3
RZQG140L9V1B	RZQG140L7Y1B	2			P					4	3	2		P								4	3

Possible combinations

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

Notes

- The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- 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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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG71L9V1
RZQG71L8Y1

Performance characteristics for infrastructure cooling

Cooling

Indoor			Outdoor temperature [°C DB]																										
			-15			-10			-5			0			5			10			15			20					
RH [%]	*CWB	*CDB	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI			
54.5	11	16	4.81	3.98	0.34	4.81	3.98	0.36	4.81	3.98	0.37	4.81	3.98	0.39	4.81	3.98	0.41	4.81	3.98	0.43	4.81	3.98	0.46	4.81	3.98	0.48	4.81	3.98	0.48
41.8	11	18	4.81	4.67	0.34	4.81	4.67	0.36	4.81	4.67	0.37	4.81	4.67	0.39	4.81	4.67	0.41	4.81	4.67	0.43	4.81	4.67	0.46	4.81	4.67	0.48	4.81	4.67	0.48
37	13	20	6.02	5.05	0.37	6.02	5.05	0.41	6.02	5.05	0.45	6.02	5.05	0.50	6.02	5.05	0.52	6.02	5.05	0.55	6.02	5.05	0.57	6.02	5.05	0.57	6.02	5.05	0.64
31.4	11	22	4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43	4.81	4.81	0.46	4.81	4.81	0.48	4.81	4.81	0.48
44.9	13	24	6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55	6.02	6.02	0.57	6.02	6.02	0.57	6.02	6.02	0.64
52	14	26	6.62	5.76	0.38	6.62	5.76	0.44	6.62	5.76	0.50	6.62	5.76	0.55	6.62	5.76	0.58	6.62	5.76	0.60	6.62	5.76	0.63	6.62	5.76	0.63	6.62	5.76	0.72
22.9	11	28	4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43	4.81	4.81	0.46	4.81	4.81	0.48	4.81	4.81	0.48
34.8	13	30	6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55	6.02	6.02	0.57	6.02	6.02	0.57	6.02	6.02	0.64
47.6	15	32	7.22	6.06	0.39	7.22	6.06	0.46	7.22	6.06	0.54	7.22	6.06	0.61	7.22	6.06	0.63	7.22	6.06	0.66	7.22	6.06	0.69	7.22	6.06	0.69	7.22	6.06	0.79
54.3	16	34	7.82	5.71	0.41	7.82	5.71	0.49	7.82	5.71	0.58	7.82	5.71	0.66	7.82	5.71	0.69	7.82	5.71	0.72	7.82	5.71	0.75	7.82	5.71	0.75	7.82	5.71	0.87
21.2	12	36	5.41	5.41	0.36	5.41	5.41	0.38	5.41	5.41	0.41	5.41	5.41	0.44	5.41	5.41	0.46	5.41	5.41	0.49	5.41	5.41	0.52	5.41	5.41	0.52	5.41	5.41	0.56
32.1	14	38	6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60	6.62	6.62	0.63	6.62	6.62	0.63	6.62	6.62	0.72
43.8	16	40	7.82	6.57	0.41	7.82	6.57	0.49	7.82	6.57	0.58	7.82	6.57	0.66	7.82	6.57	0.69	7.82	6.57	0.72	7.82	6.57	0.75	7.82	6.57	0.75	7.82	6.57	0.87
50	17	42	8.10	6.08	0.43	8.10	6.08	0.51	8.10	6.08	0.60	8.10	6.08	0.68	8.10	6.08	0.70	8.10	6.08	0.73	8.10	6.08	0.75	8.10	6.08	0.75	8.10	6.08	0.88
21.5	14	44	6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60	6.62	6.62	0.63	6.62	6.62	0.63	6.62	6.62	0.72
26.3	15	46	7.22	7.22	0.39	7.22	7.22	0.46	7.22	7.22	0.54	7.22	7.22	0.61	7.22	7.22	0.63	7.22	7.22	0.66	7.22	7.22	0.69	7.22	7.22	0.69	7.22	7.22	0.79
31.3	16	48	7.82	7.82	0.41	7.82	7.82	0.49	7.82	7.82	0.58	7.82	7.82	0.66	7.82	7.82	0.69	7.82	7.82	0.72	7.82	7.82	0.75	7.82	7.82	0.75	7.82	7.82	0.87
47.4	19	50	8.67	6.50	0.48	8.67	6.50	0.56	8.67	6.50	0.64	8.67	6.50	0.72	8.67	6.50	0.74	8.67	6.50	0.75	8.67	6.50	0.77	8.67	6.50	0.77	8.67	6.50	0.89

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- CPI is a percentage value compared to the rated value which is 1.00.
- For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The rated power input for each model is mentioned in the table below.

Pair	FCQH100F	FCQG100F	FAQ100C	FVQ100C	FHQ100C	FUQ100C	FBQ100D
Cooling	1,66	2,01	2,00	2,02	1,78	1,67	1,89

Twin	FCQG50F x 2	FHQ50C x 2	FFQ50C x 2	FDXS50F9 x 2	FBQ50D x 2
Cooling	2,04	2,34	2,02	2,23	2,02

Triple	FCQG35F X 3	FHQ35CA X 3	FFQ35C X 3	FDXS35F x 3	FBQ35D X 3
Cooling	2,06	2,39	2,07	2,26	2,11

Symbols

- TC: Maximum total cooling capacity [kW]
- SHC: Sensible heat capacity [kW]
- CPI: Coefficient of the power input
- PI: Power input [kW]
compressor + indoor and outdoor fan motors
- RH: Relative humidity [%]

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6 Capacity tables

6 - 1 Cooling Capacity Tables

6

RZQG100L9V1
RZQG100L8Y1

Performance characteristics for infrastructure cooling

Cooling

Indoor			Outdoor temperature [°C DB]																							
			-15			-10			-5			0			5			10			15			20		
RH [%]	°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
54.5	11	16	6.00	5.63	0.33	6.00	5.63	0.34	6.00	5.63	0.35	6.00	5.63	0.37	6.00	5.63	0.38	6.00	5.63	0.38	6.00	5.63	0.39	6.00	5.63	0.39
41.8	11	18	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39
37.0	13		7.48	6.37	0.42	7.48	6.37	0.44	7.48	6.37	0.45	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.45	7.48	6.37	0.46
31.4	11	20	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39
44.9	13		7.48	7.25	0.42	7.48	7.25	0.44	7.48	7.25	0.45	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.45	7.48	7.25	0.46
52.0	14	8.22	7.18	0.47	8.22	7.18	0.48	8.22	7.18	0.49	8.22	7.18	0.51	8.22	7.18	0.50	8.22	7.18	0.49	8.22	7.18	0.49	8.22	7.18	0.49	
22.9	11	22	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39
34.8	13		7.48	7.48	0.42	7.48	7.48	0.44	7.48	7.48	0.45	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.45	7.48	7.48	0.46
47.6	15	8.96	7.82	0.52	8.96	7.82	0.53	8.96	7.82	0.54	8.96	7.82	0.55	8.96	7.82	0.54	8.96	7.82	0.53	8.96	7.82	0.52	8.96	7.82	0.52	
54.3	16	9.70	7.54	0.56	9.70	7.54	0.58	9.70	7.54	0.59	9.70	7.54	0.60	9.70	7.54	0.59	9.70	7.54	0.57	9.70	7.54	0.55	9.70	7.54	0.56	
21.2	12	24	6.74	6.74	0.38	6.74	6.74	0.39	6.74	6.74	0.40	6.74	6.74	0.41	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42
32.1	14		8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	8.22	8.22	0.49
43.8	16	9.70	8.68	0.56	9.70	8.68	0.58	9.70	8.68	0.59	9.70	8.68	0.60	9.70	8.68	0.59	9.70	8.68	0.57	9.70	8.68	0.55	9.70	8.68	0.56	
50.0	17	9.98	7.86	0.59	9.98	7.86	0.59	9.98	7.86	0.60	9.98	7.86	0.61	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.60	
21.5	14	27	8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	8.22	8.22	0.49
26.3	15		8.96	8.96	0.52	8.96	8.96	0.53	8.96	8.96	0.54	8.96	8.96	0.55	8.96	8.96	0.54	8.96	8.96	0.53	8.96	8.96	0.52	8.96	8.96	0.52
31.3	16	9.70	9.70	0.56	9.70	9.70	0.58	9.70	9.70	0.59	9.70	9.70	0.60	9.70	9.70	0.59	9.70	9.70	0.57	9.70	9.70	0.55	9.70	9.70	0.56	
47.4	19	10.53	8.53	0.60	10.53	8.53	0.61	10.53	8.53	0.61	10.53	8.53	0.61	10.53	8.53	0.63	10.53	8.53	0.66	10.53	8.53	0.68	10.53	8.53	0.68	

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
- 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 rated power input for each model is mentioned in the table below.

Pair

	FCQH6140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	2,15	2,45	2,49	2,49	2,49

Twin

	FCQH671Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D X 2
Cooling	2,14	2,35	2,94	2,34	2,64	2,83

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3
Cooling	2,33	2,98	2,70	2,54	2,96

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	2,35	3,03	2,75	2,58	3,05

Symbols

- TC: Maximum total cooling capacity [kW]
- SHC: Sensible heat capacity [kW]
- CPI: Coefficient of the power input
- PI: Power input [kW]
- compressor + indoor and outdoor fan motors
- RH: Relative humidity [%]

3D098207

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG125L9V1
RZQG125L8Y1

Performance characteristics for infrastructure cooling

Cooling

Indoor			Outdoor temperature (°C DB)																							
			-15			-10			-5			0			5			10			15			20		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11.0	16	7.49	6.72	0.33	7.49	6.72	0.34	7.49	6.72	0.35	7.49	6.72	0.36	7.49	6.72	0.37	7.49	6.72	0.38	7.49	6.72	0.38	7.49	6.72	0.38
41.8	11.0	18	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38
57.0	13.0		9.34	7.60	0.42	9.34	7.60	0.43	9.34	7.60	0.44	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45
31.4	11.0	20	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38
44.9	13.0		9.34	8.65	0.42	9.34	8.65	0.43	9.34	8.65	0.44	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45
52.0	14.0	22	10.27	8.56	0.46	10.27	8.56	0.47	10.27	8.56	0.49	10.27	8.56	0.50	10.27	8.56	0.49	10.27	8.56	0.49	10.27	8.56	0.48	10.27	8.56	0.48
22.9	11.0		7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38
34.8	13.0	24	9.34	9.34	0.42	9.34	9.34	0.43	9.34	9.34	0.44	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45
47.6	15.0		11.20	9.34	0.51	11.20	9.34	0.52	11.20	9.34	0.53	11.20	9.34	0.55	11.20	9.34	0.54	11.20	9.34	0.52	11.20	9.34	0.51	11.20	9.34	0.51
54.3	16.0	27	12.12	9.00	0.55	12.12	9.00	0.57	12.12	9.00	0.58	12.12	9.00	0.59	12.12	9.00	0.58	12.12	9.00	0.56	12.12	9.00	0.54	12.12	9.00	0.55
21.2	12.0		8.42	8.42	0.37	8.42	8.42	0.38	8.42	8.42	0.39	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41
32.1	14.0	24	10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48
43.8	16.0		12.12	10.35	0.55	12.12	10.35	0.57	12.12	10.35	0.58	12.12	10.35	0.59	12.12	10.35	0.58	12.12	10.35	0.56	12.12	10.35	0.54	12.12	10.35	0.55
50.0	17.0	27	12.47	9.38	0.57	12.47	9.38	0.58	12.47	9.38	0.59	12.47	9.38	0.60	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59
21.5	14.0		10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48
26.3	15.0	27	11.20	11.20	0.51	11.20	11.20	0.52	11.20	11.20	0.53	11.20	11.20	0.55	11.20	11.20	0.54	11.20	11.20	0.52	11.20	11.20	0.51	11.20	11.20	0.51
31.3	16.0		12.12	12.12	0.55	12.12	12.12	0.57	12.12	12.12	0.58	12.12	12.12	0.59	12.12	12.12	0.58	12.12	12.12	0.56	12.12	12.12	0.54	12.12	12.12	0.55
47.4	19.0	27	13.17	10.18	0.59	13.17	10.18	0.60	13.17	10.18	0.60	13.17	10.18	0.60	13.17	10.18	0.62	13.17	10.18	0.65	13.17	10.18	0.67	13.17	10.18	0.67

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
- 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 rated power input for each model is mentioned in the table below.

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	3,00	3,22	3,74	3,58	3,63

Twin

	FCQHG71Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBO71D X 2
Cooling	2,97	3,17	3,67	3,44	3,69	4,10

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS0F9 X 3	FBQ50D X 3
Cooling	3,17	3,66	3,23	3,45	3,97

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	3,23	3,64	3,01	3,94	3,74

Symbols

- TC: Maximum total cooling capacity [kW]
- SHC: Sensible heat capacity [kW]
- CPI: Coefficient of the power input
- PI: Power input [kW]
compressor + indoor and outdoor fan motors
- RH: Relative humidity [%]

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6 Capacity tables

6 - 1 Cooling Capacity Tables

6

RZQG140L9V1
RZQG140LY1

Performance characteristics for infrastructure cooling

Cooling

Indoor			Outdoor temperature (°C DB)																										
			-15			-10			-5			0			5			10			15			20					
RH [%]	°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI			
54.5	11.0	16	8.24	7.27	0.32	8.24	7.27	0.33	8.24	7.27	0.34	8.24	7.27	0.35	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.38	8.24	7.27	0.38
41.8	11.0	18	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38
57.0	13.0		10.28	8.22	0.41	10.28	8.22	0.42	10.28	8.22	0.43	10.28	8.22	0.45	10.28	8.22	0.45	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44
31.4	11.0	20	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38
44.9	13.0		10.28	9.35	0.41	10.28	9.35	0.42	10.28	9.35	0.43	10.28	9.35	0.45	10.28	9.35	0.45	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44
52.0	14.0		11.30	9.26	0.45	11.30	9.26	0.47	11.30	9.26	0.48	11.30	9.26	0.49	11.30	9.26	0.49	11.30	9.26	0.48	11.30	9.26	0.48	11.30	9.26	0.47	11.30	9.26	0.47
22.9	11.0	22	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38
34.8	13.0		10.28	10.28	0.41	10.28	10.28	0.42	10.28	10.28	0.43	10.28	10.28	0.45	10.28	10.28	0.45	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44
47.6	15.0		12.32	10.10	0.50	12.32	10.10	0.51	12.32	10.10	0.52	12.32	10.10	0.54	12.32	10.10	0.53	12.32	10.10	0.51	12.32	10.10	0.50	12.32	10.10	0.50	12.32	10.10	0.50
54.3	16.0		13.33	9.73	0.54	13.33	9.73	0.56	13.33	9.73	0.57	13.33	9.73	0.58	13.33	9.73	0.57	13.33	9.73	0.55	13.33	9.73	0.53	13.33	9.73	0.53	13.33	9.73	0.54
21.2	12.0	24	9.26	9.26	0.37	9.26	9.26	0.38	9.26	9.26	0.39	9.26	9.26	0.40	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41
32.1	14.0		11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	11.30	11.30	0.47
43.8	16.0		13.33	11.20	0.54	13.33	11.20	0.56	13.33	11.20	0.57	13.33	11.20	0.58	13.33	11.20	0.57	13.33	11.20	0.55	13.33	11.20	0.53	13.33	11.20	0.53	13.33	11.20	0.54
50.0	17.0		13.72	10.15	0.56	13.72	10.15	0.57	13.72	10.15	0.58	13.72	10.15	0.59	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58
21.5	14.0	27	11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	11.30	11.30	0.47
26.3	15.0		12.32	12.32	0.50	12.32	12.32	0.51	12.32	12.32	0.52	12.32	12.32	0.54	12.32	12.32	0.53	12.32	12.32	0.51	12.32	12.32	0.50	12.32	12.32	0.50	12.32	12.32	0.50
31.3	16.0		13.33	13.33	0.54	13.33	13.33	0.56	13.33	13.33	0.57	13.33	13.33	0.58	13.33	13.33	0.57	13.33	13.33	0.55	13.33	13.33	0.53	13.33	13.33	0.53	13.33	13.33	0.54
47.4	19.0		14.48	11.01	0.58	14.48	11.01	0.59	14.48	11.01	0.59	14.48	11.01	0.59	14.48	11.01	0.61	14.48	11.01	0.64	14.48	11.01	0.66	14.48	11.01	0.66	14.48	11.01	0.66

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
- 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 rated power input for each model is mentioned in the table below.

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	4,00	4,17	4,17	4,05	4,00

Twin

	FCQHG71Fx2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D X 2
Cooling	3,94	4,11	3,59	3,35	3,81	3,75

Triple

	FCQG50F X 3	FHQ50C X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3
Cooling	4,12	4,25	4,15	4,26	3,75

Double twin

	FCQG35F X 4	FHQ35C X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D x 4
Cooling	4,18	4,23	3,83	5,38	3,75

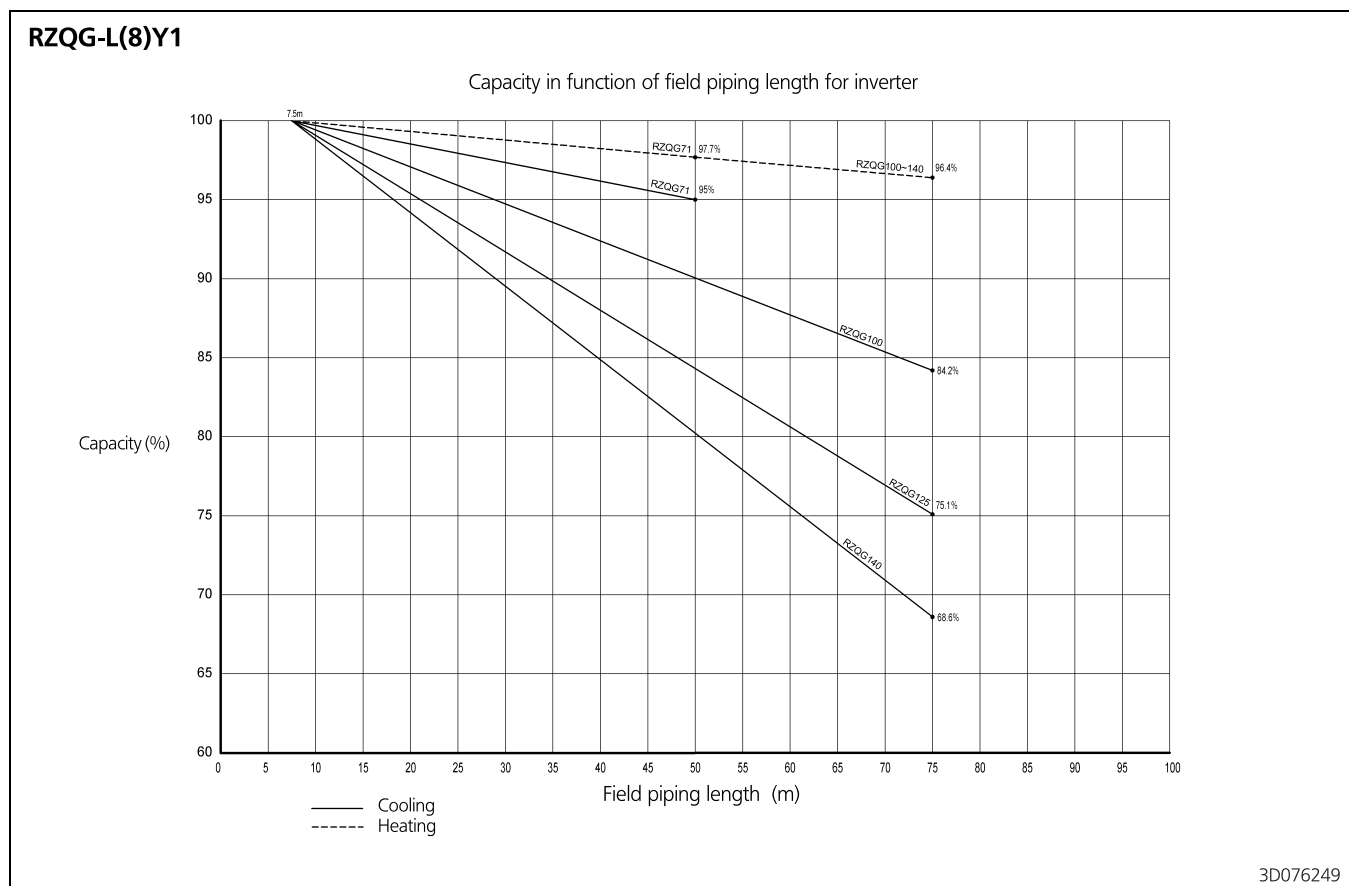
Symbols

- TC: Maximum total cooling capacity [kW]
- SHC: Sensible heat capacity [kW]
- CPI: Coefficient of the power input
- PI: Power input [kW]
compressor + indoor and outdoor fan motors
- RH: Relative humidity [%]

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6 Capacity tables

6 - 3 Capacity Correction Factor

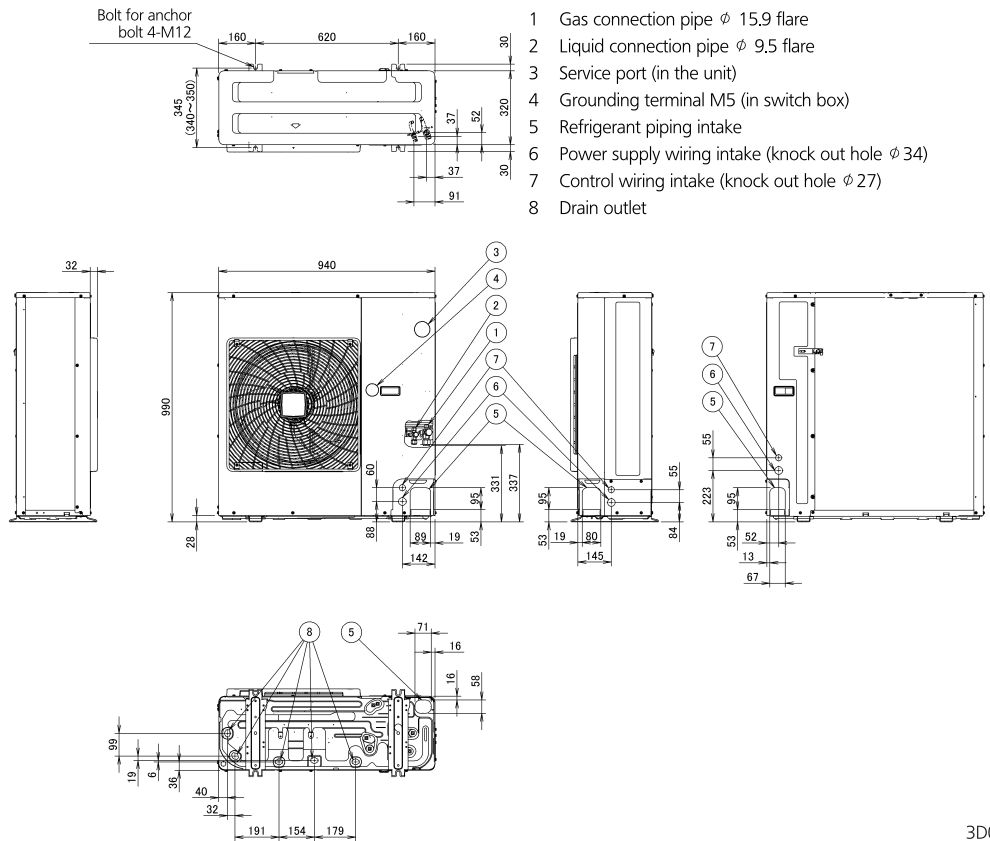


7 Dimensional drawings

7 - 1 Dimensional Drawings

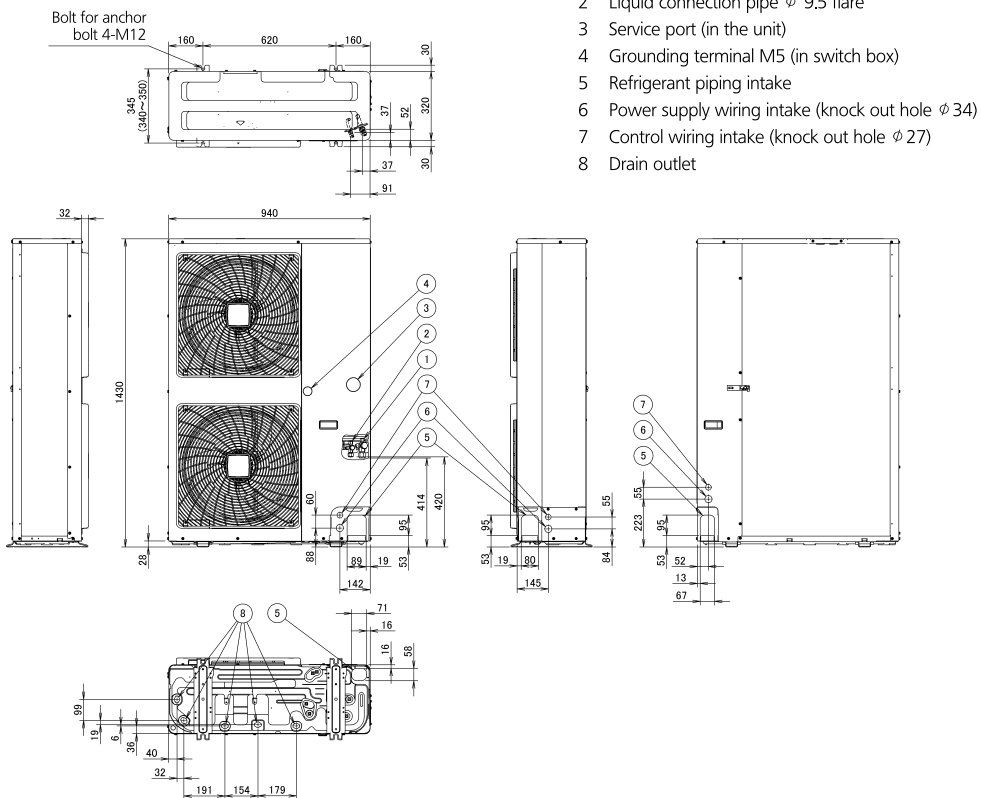
7

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RZQG100-140L(8)Y1

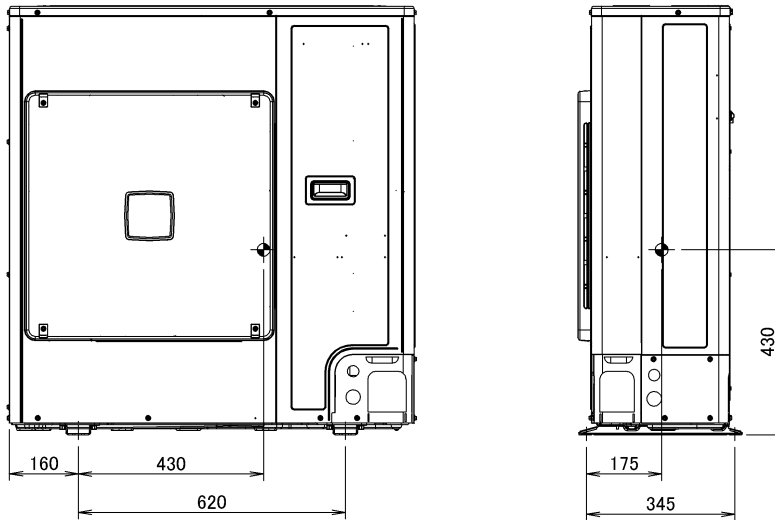


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8 Centre of gravity

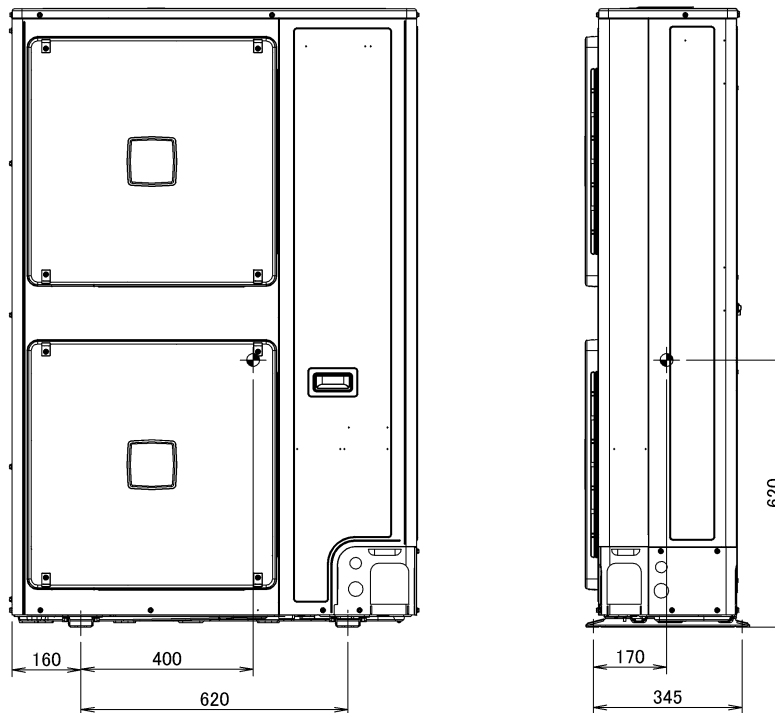
8 - 1 Centre of Gravity

RZQG71L8Y1



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RZQG100-140L(8)Y1

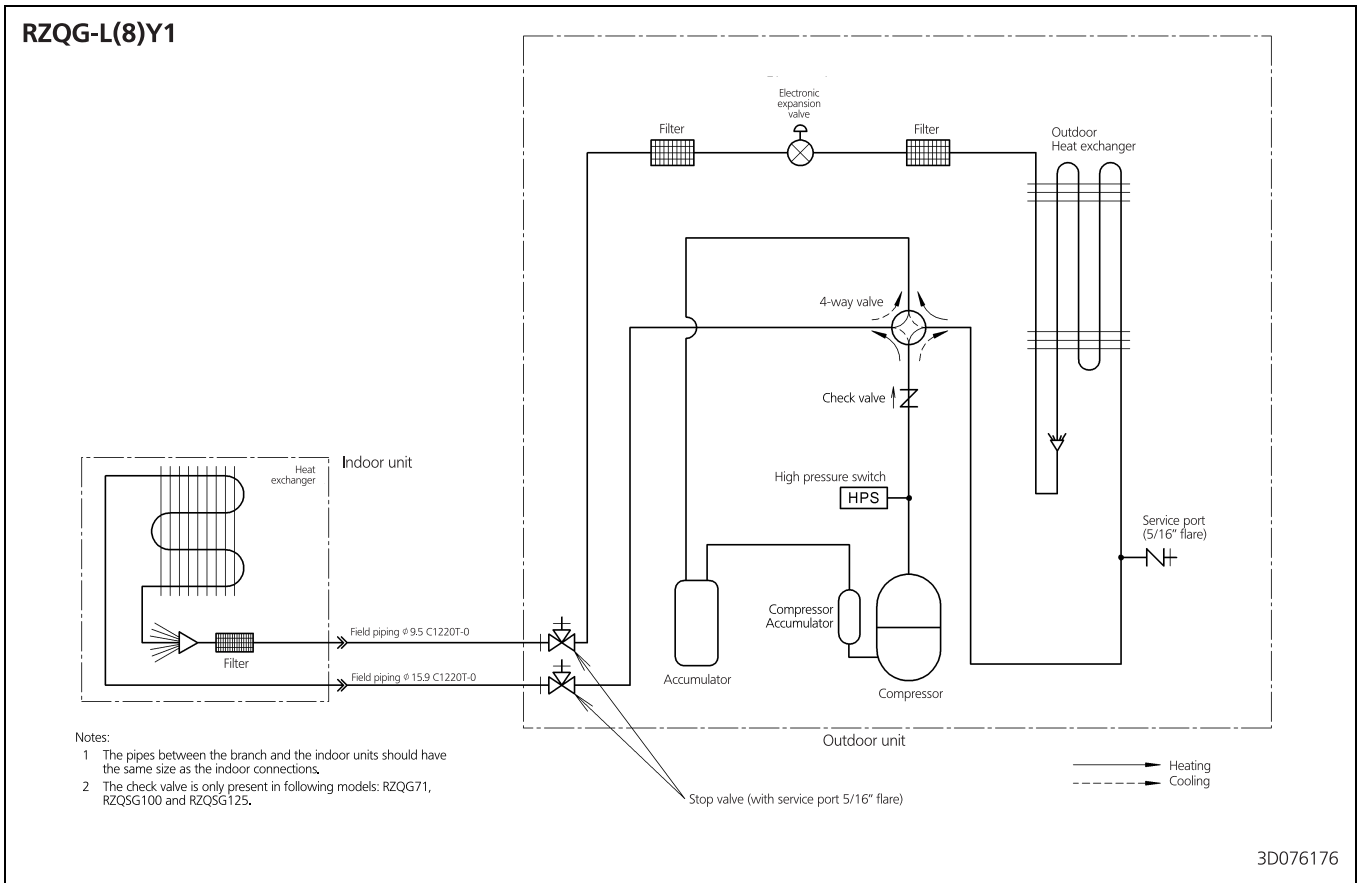


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9 Piping diagrams

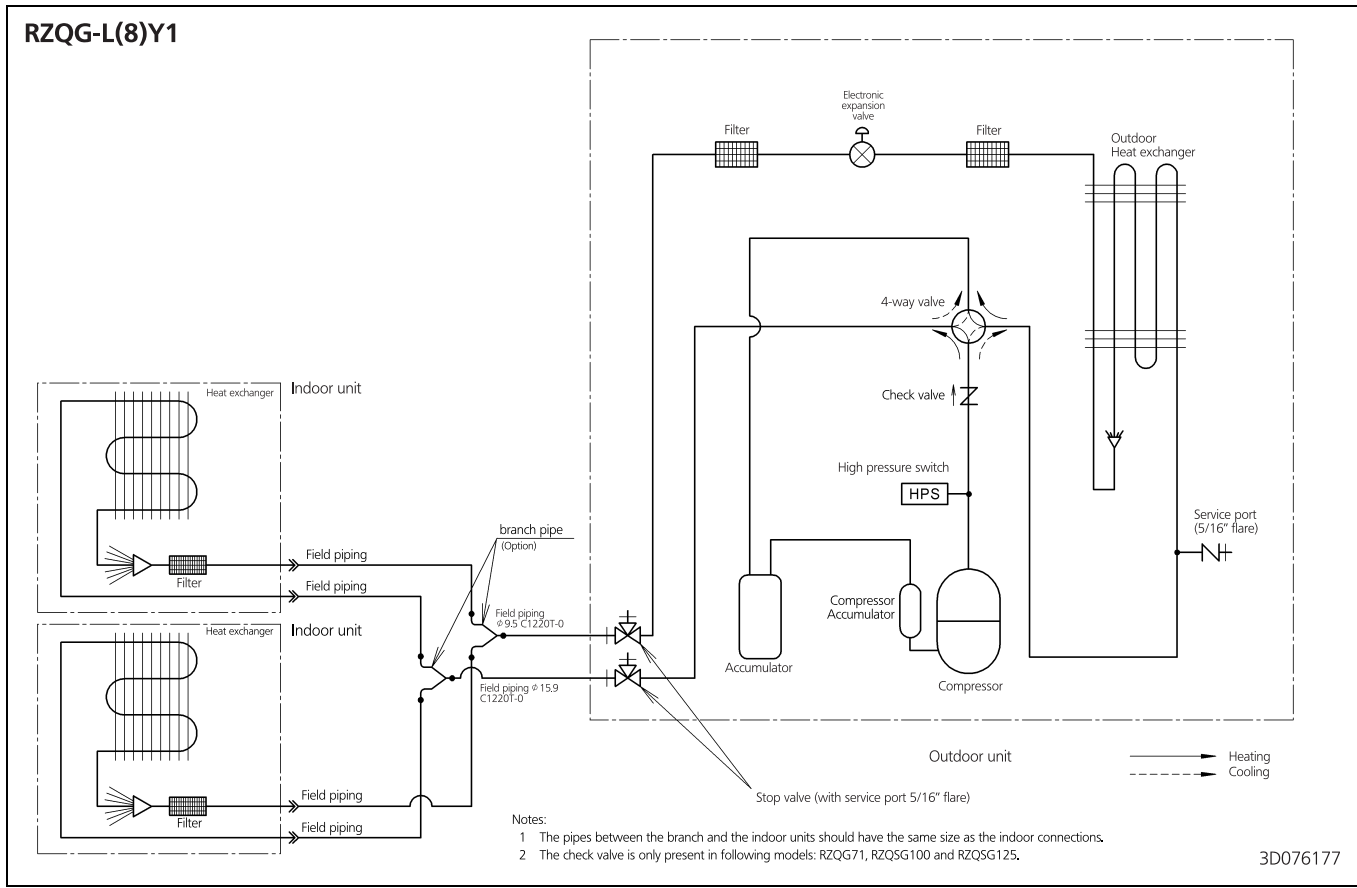
9 - 1 Piping Diagrams

9



9 Piping diagrams

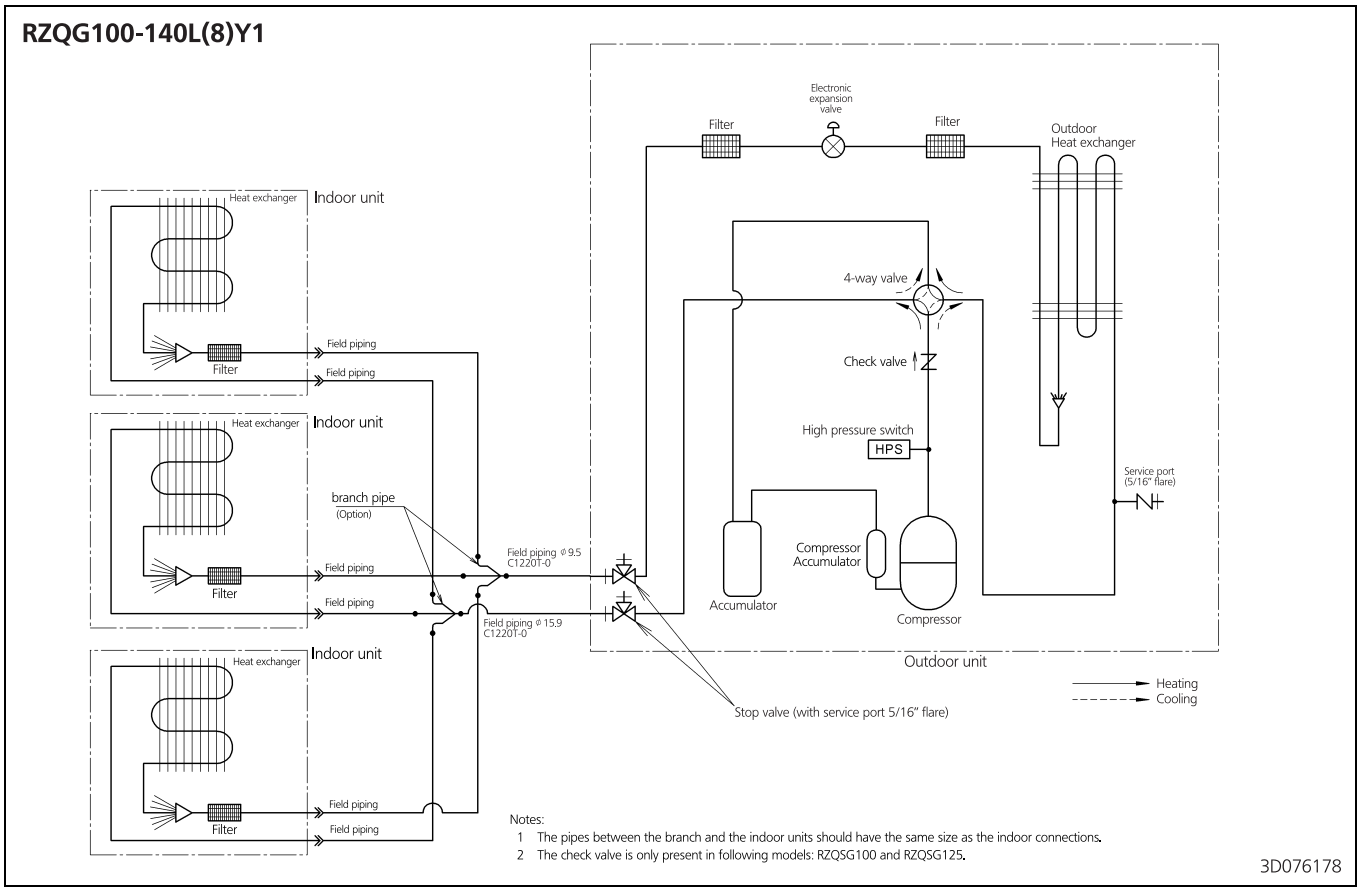
9 - 2 Piping Diagram Twin Application



9 Piping diagrams

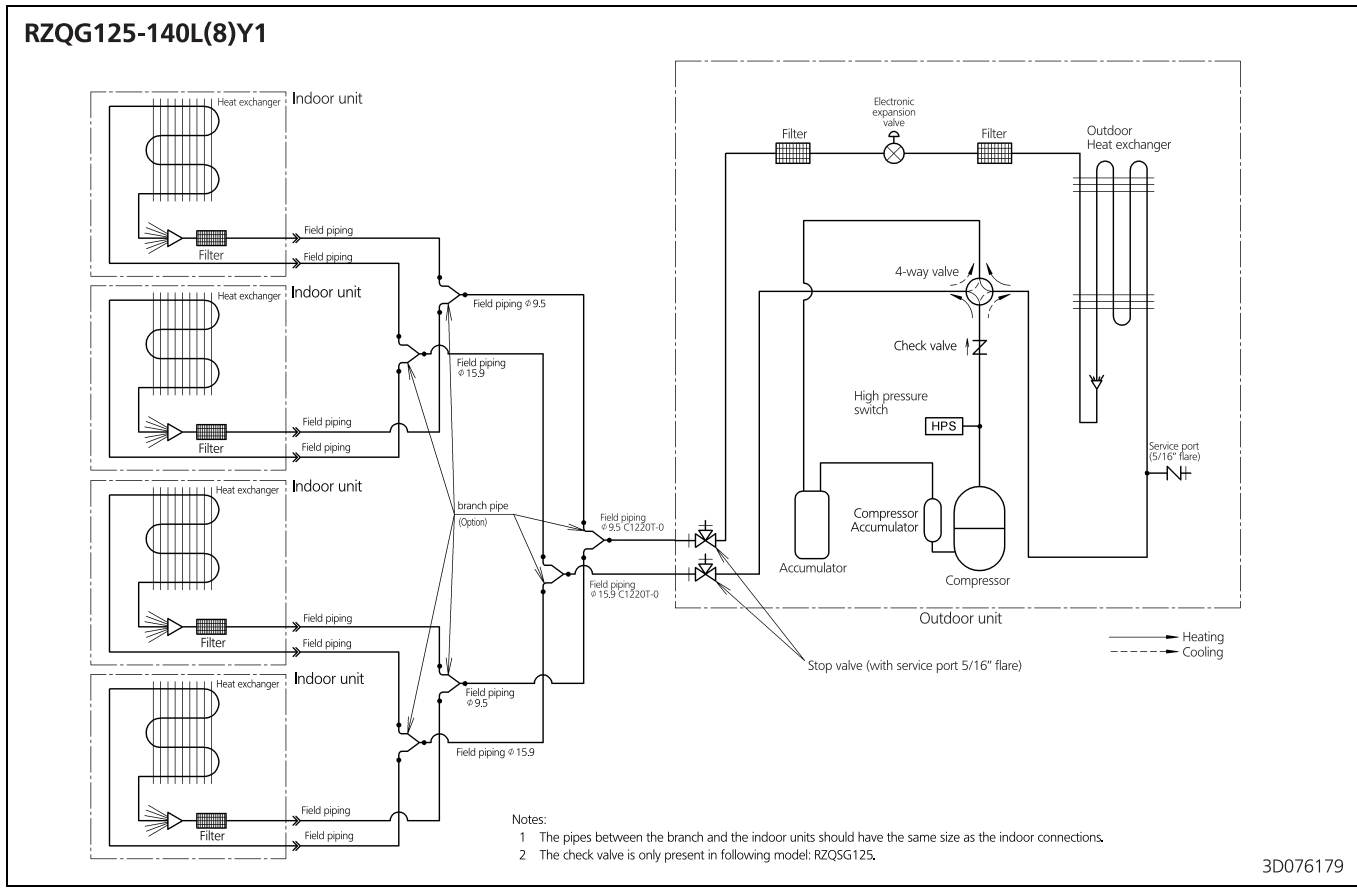
9 - 3 Piping Diagram Triple Application

9



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application



10 Wiring diagrams

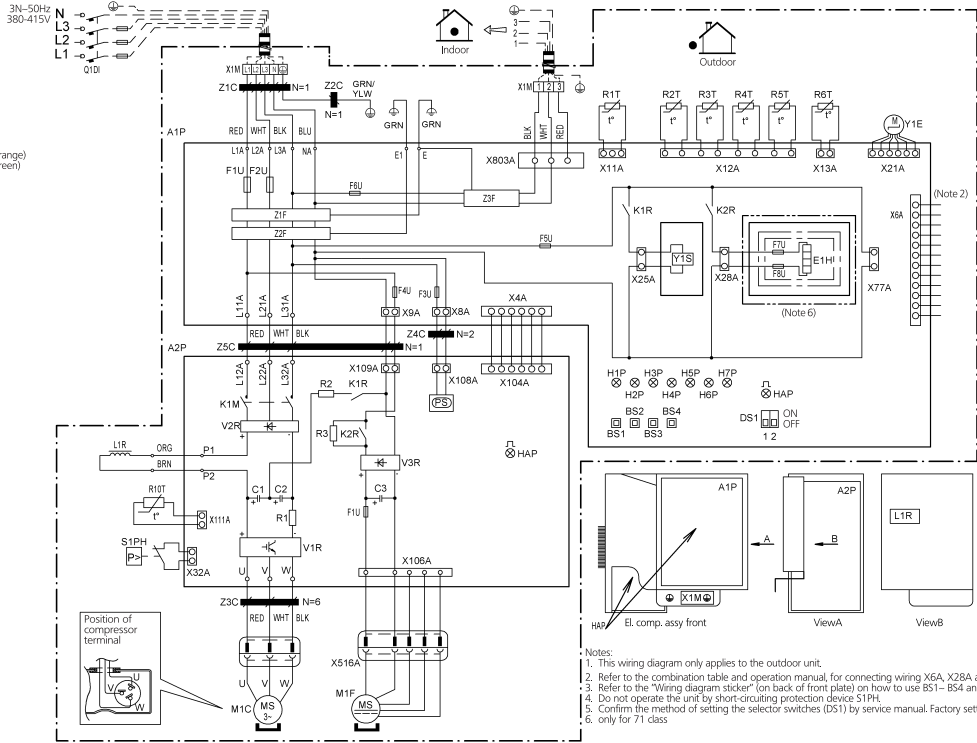
10 - 1 Wiring Diagrams - Three Phase

10

RZQG71L8Y1

- A1P : Printed circuit board
- A2P : Printed circuit board (Inverter)
- BS1-BS2 : Push button switch
- C1-C3 : Capacitor
- DS1 : Dip switch
- E1H : Bottomplate heater (Option)
- FU1 : Fuse (31.5A / 250V)
- FU2 : Fuse (31.5A / 250V)
- FU3-FU6 : Fuse (T 6.3A / 250V)
- FU7-FU8 : Fuse (F 1.0A / 250V)
- FU9 (A2P) : Fuse (T 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- HAP(A1P/A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (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 : IGBT 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 (ferrite 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



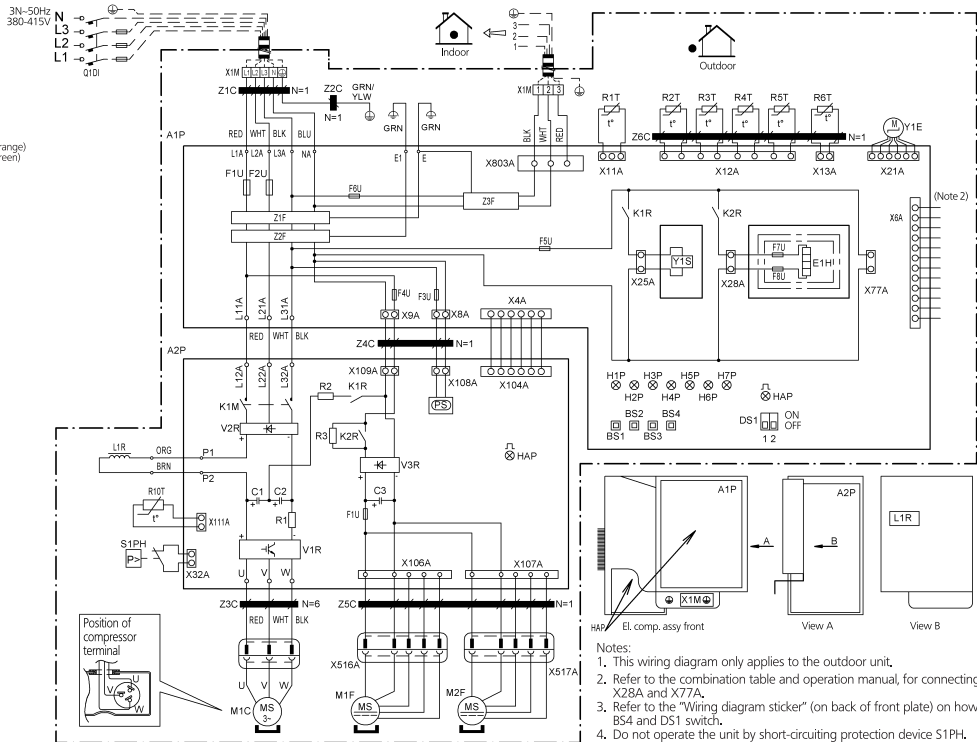
- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by 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
- 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)
- FU2 : Fuse (31.5A / 250V)
- FU3-FU6 : Fuse (T 6.3A / 250V)
- FU7-FU8 : Fuse (F 1.0A / 250V)
- FU9 (A2P) : Fuse (T 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- HAP(A1P/A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (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 : IGBT 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 (ferrite 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

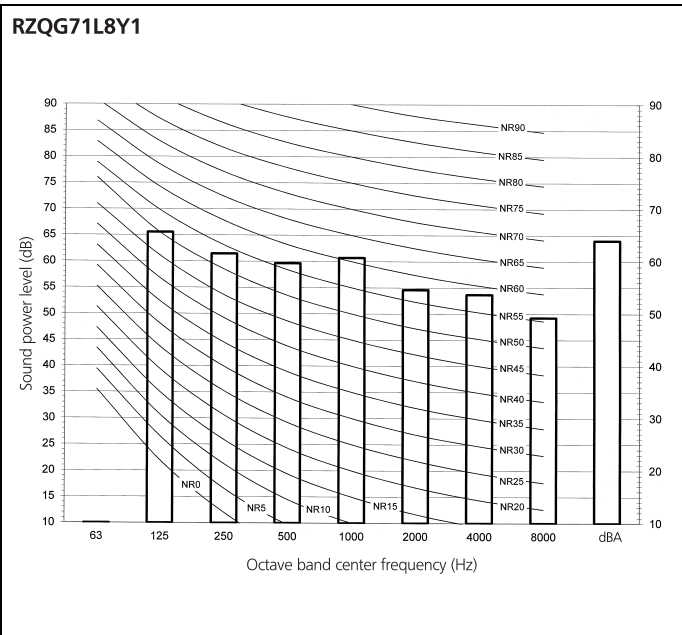


- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by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

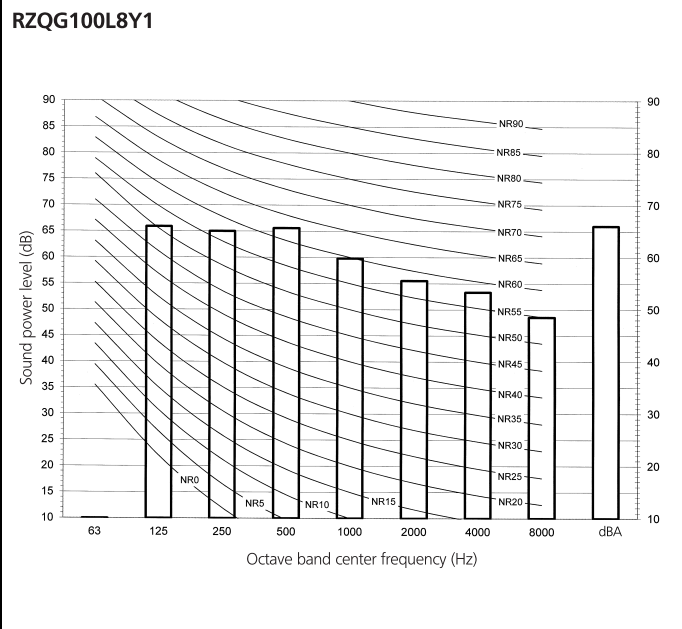
11 - 1 Sound Power Spectrum



NOTES

- 1 dBA = A-weighted sound power level (A-scale according to IEC)
- 2 Reference acoustic intensity 0 dB = $10E-6\mu W/m^2$
- 3 Measured according to ISO 3744

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NOTES

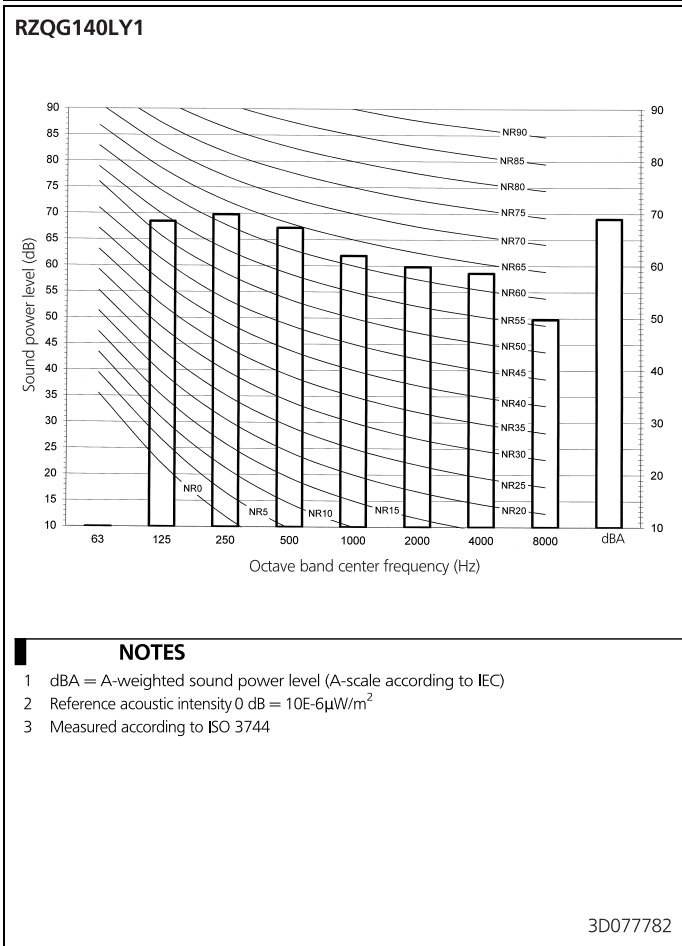
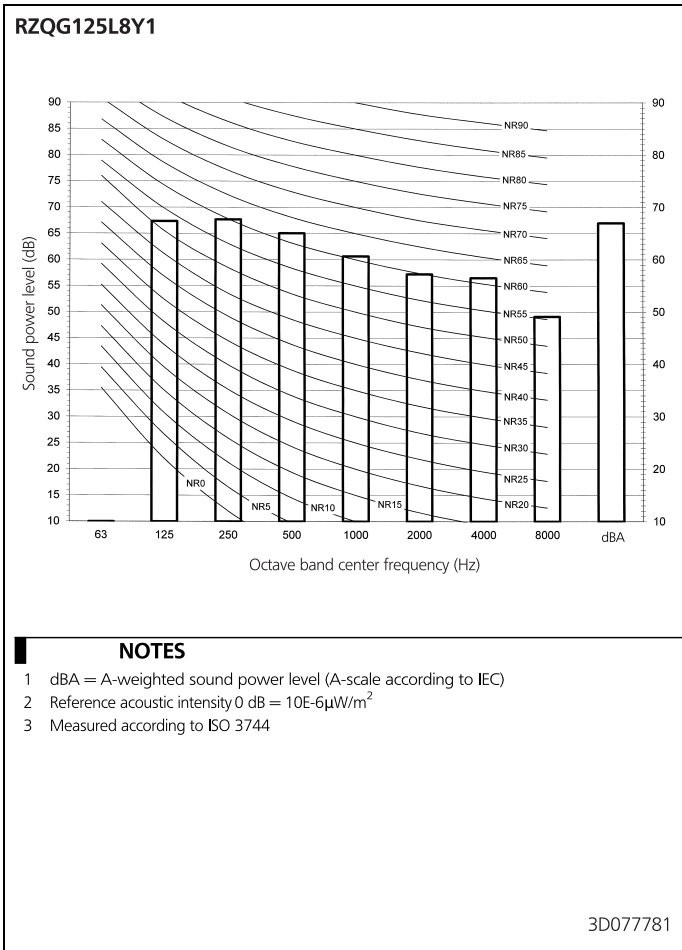
- 1 dBA = A-weighted sound power level (A-scale according to IEC)
- 2 Reference acoustic intensity 0 dB = $10E-6\mu W/m^2$
- 3 Measured according to ISO 3744

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11 Sound data

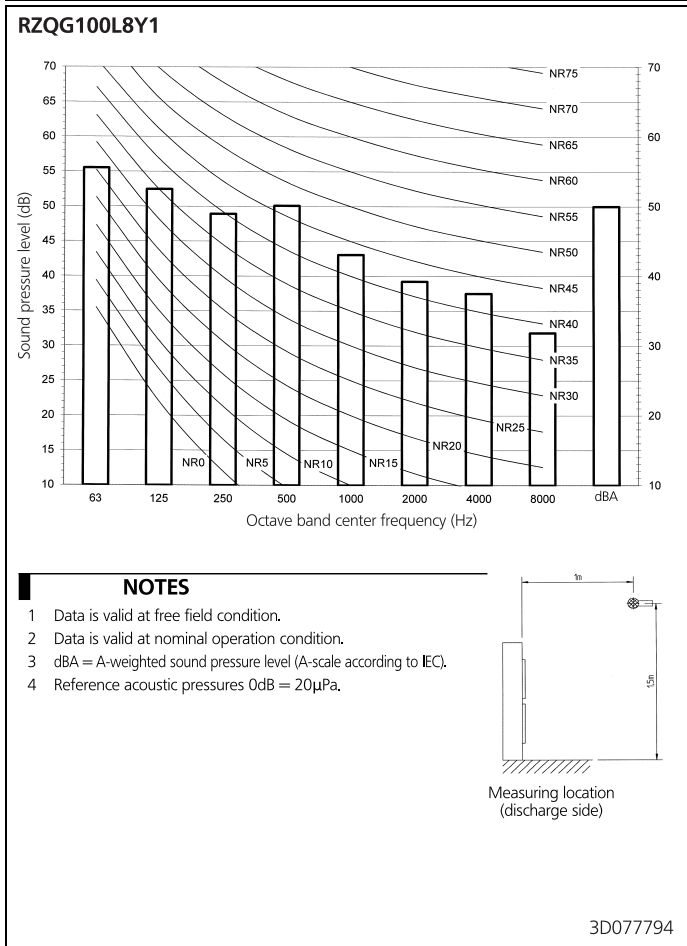
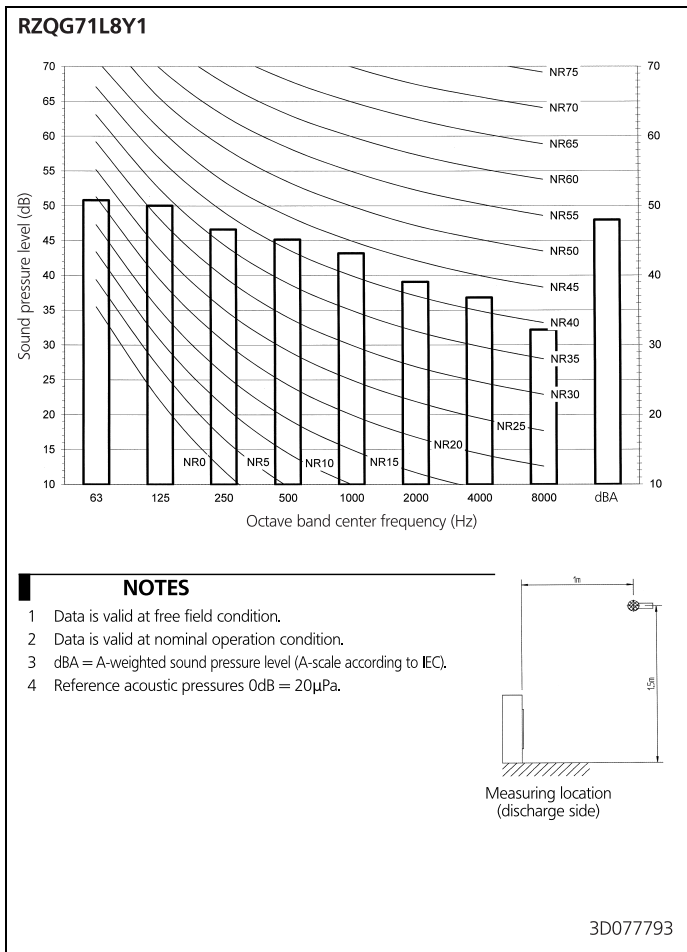
11 - 1 Sound Power Spectrum

11



11 Sound data

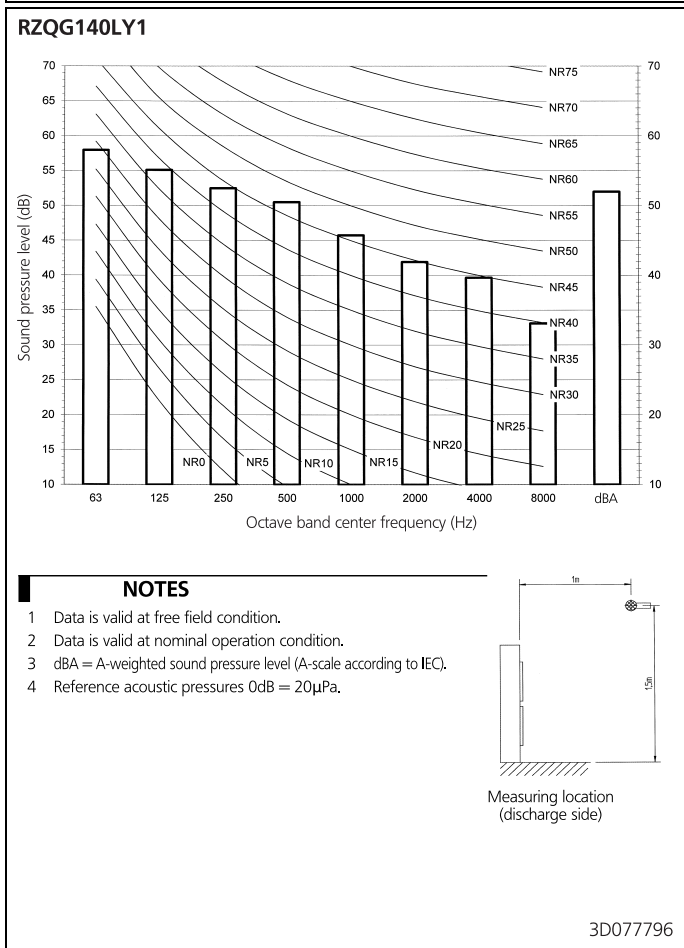
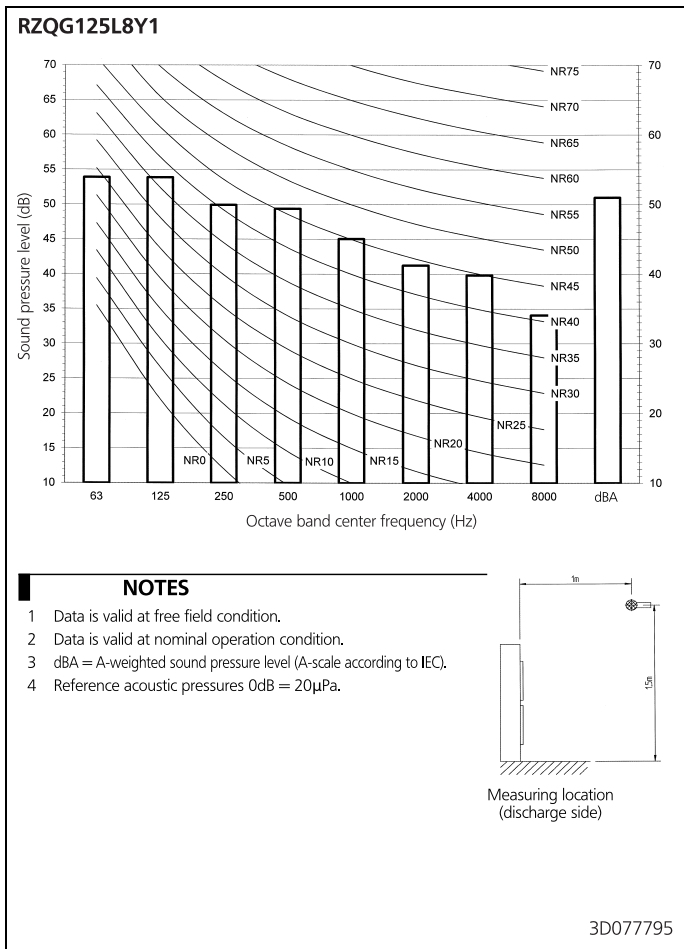
11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

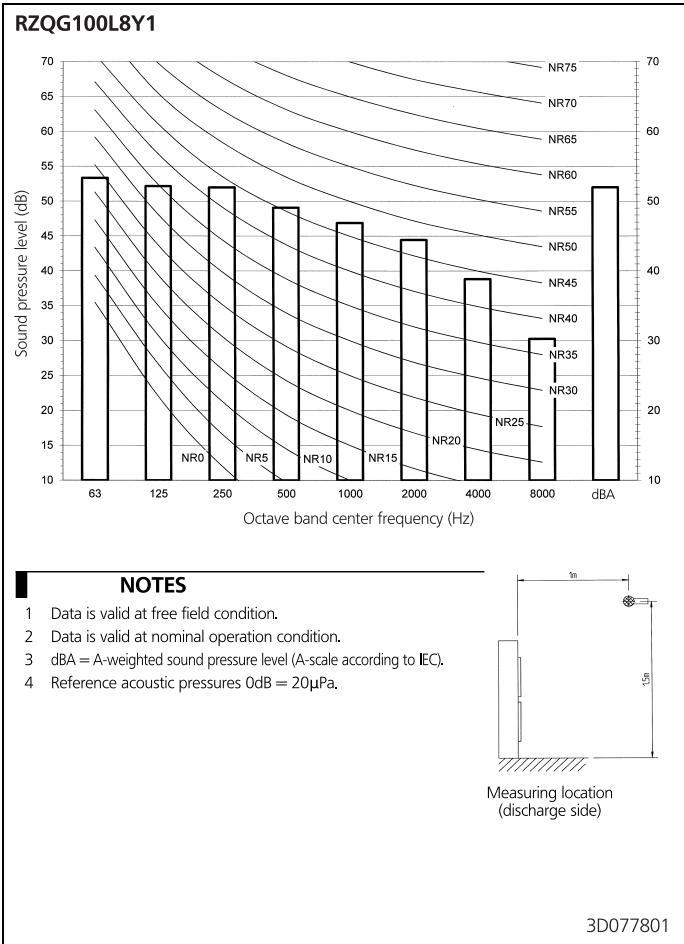
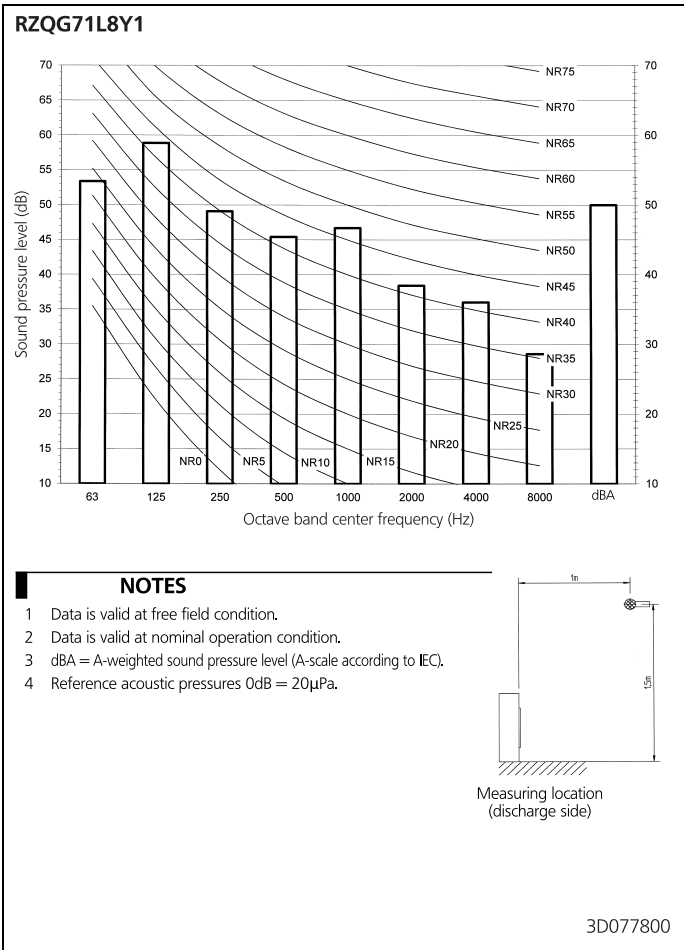
11 - 2 Sound Pressure Spectrum - Cooling

11



11 Sound data

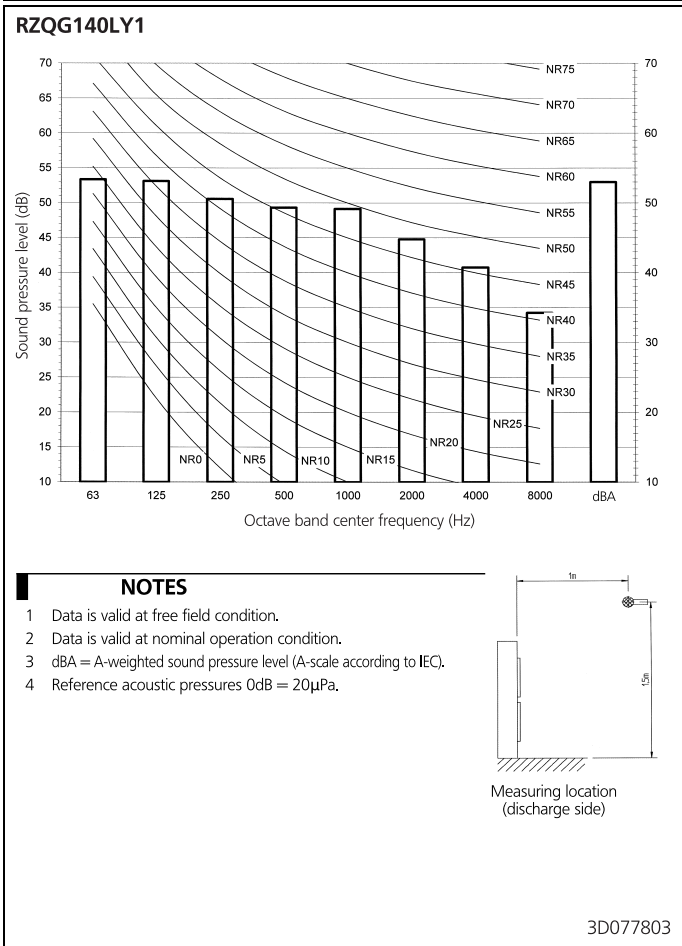
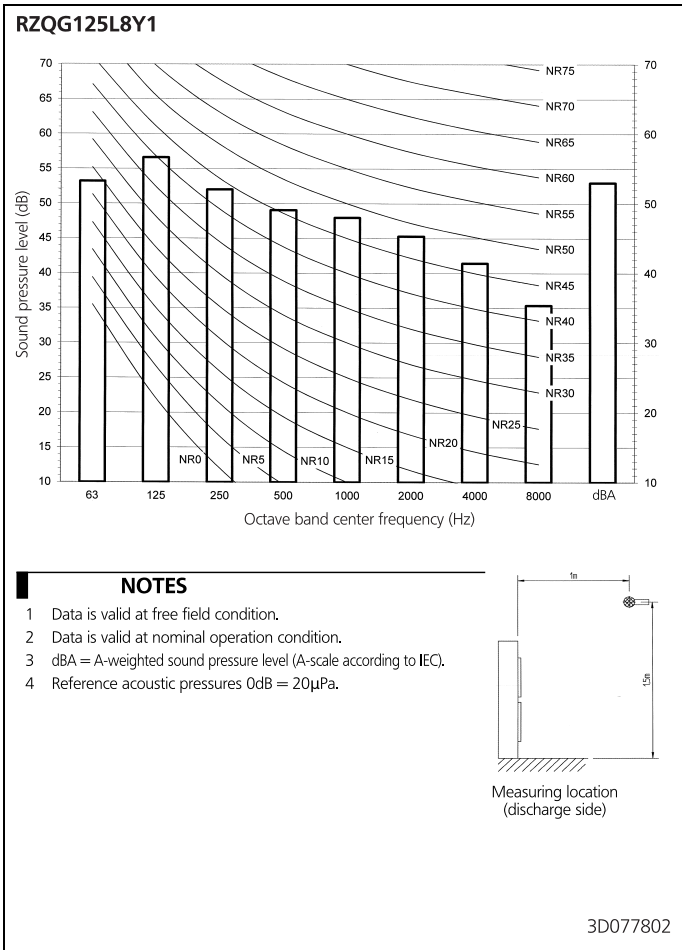
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

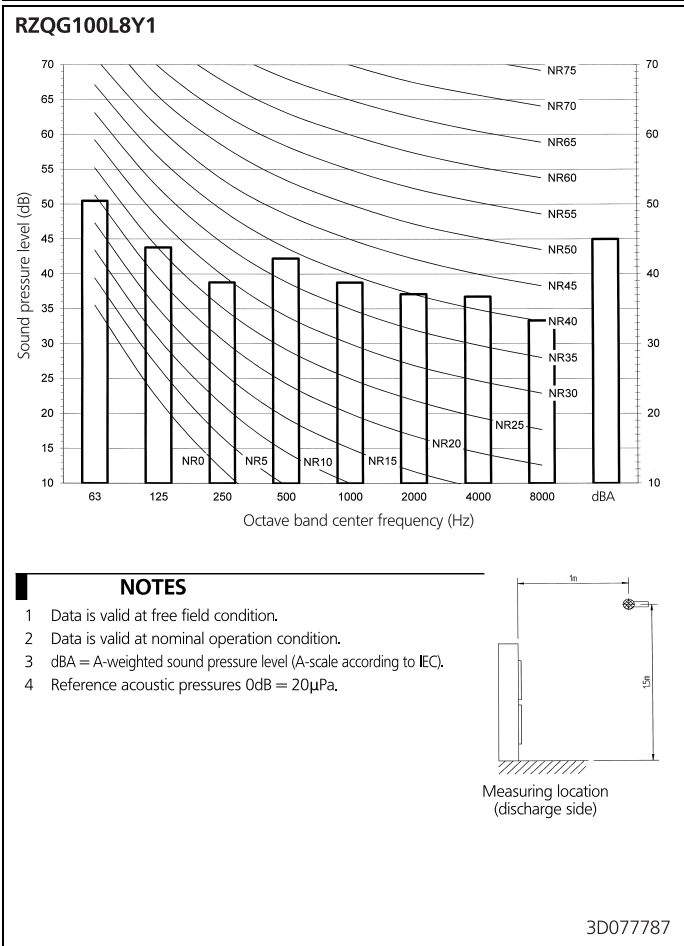
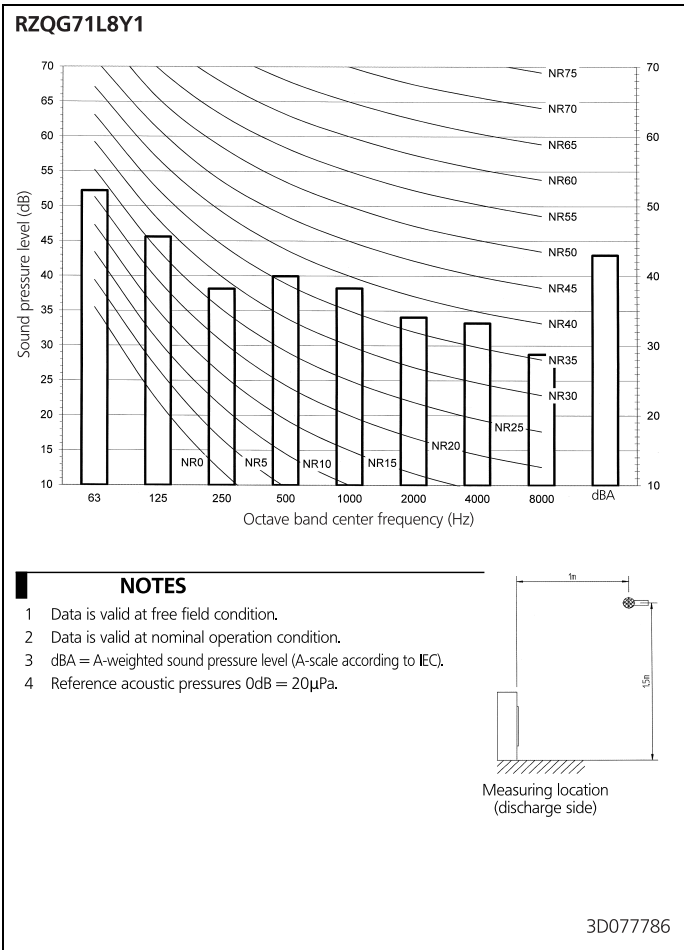
11 - 3 Sound Pressure Spectrum - Heating

11



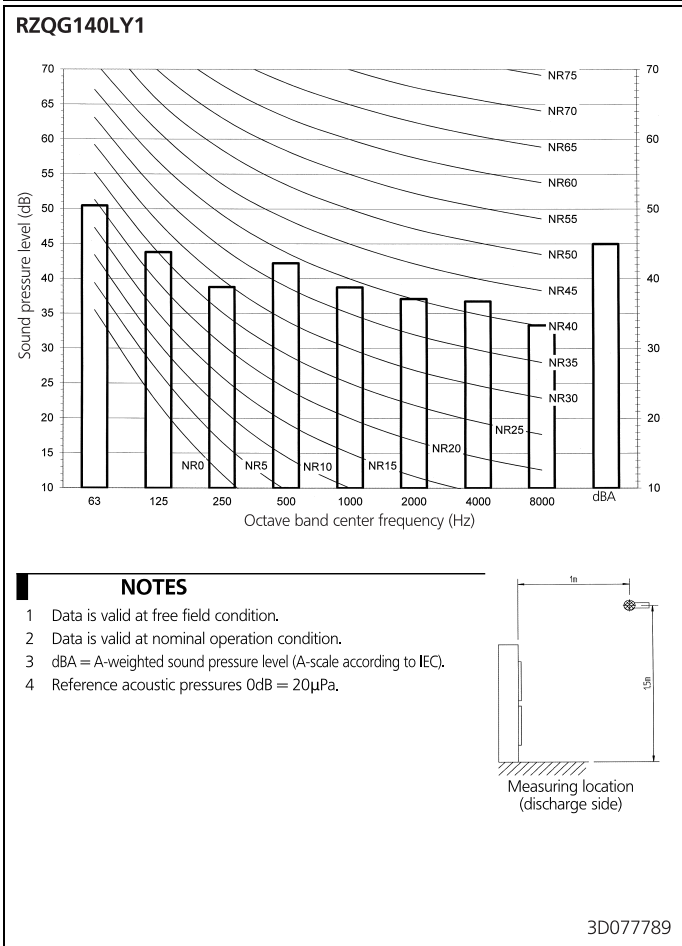
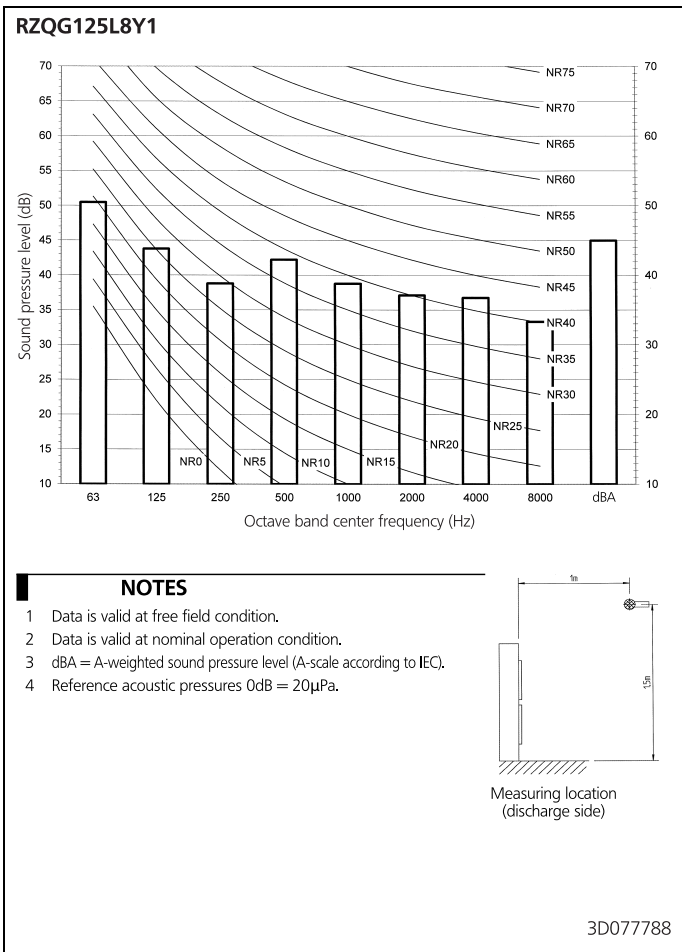
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



12 Installation

12 - 1 Installation Method

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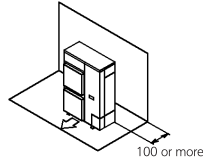
Installation service space

The measure of these values is "mm".

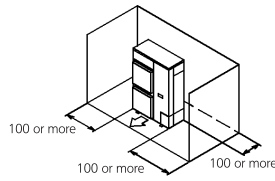
(A) When there are obstacles on suction sides.

• No obstacle above

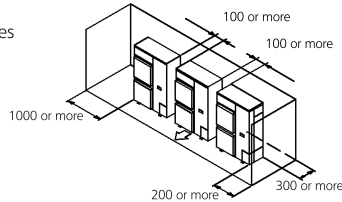
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

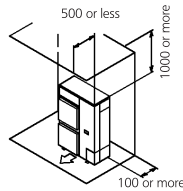


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

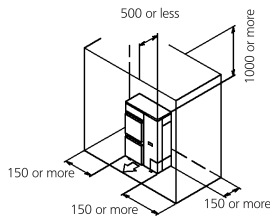


• Obstacle above, too.

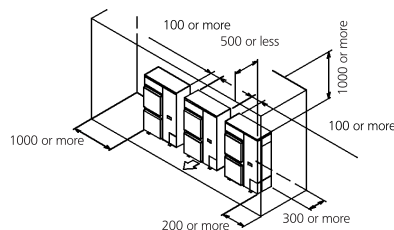
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



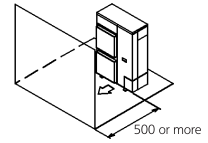
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



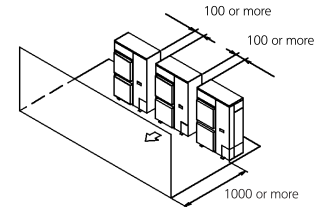
(B) When there are obstacles on discharge sides.

• No obstacle above

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

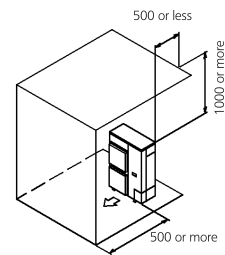


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

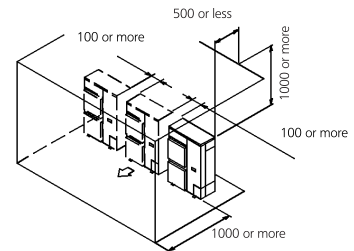


• Obstacle above, too

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



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



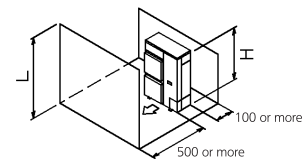
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

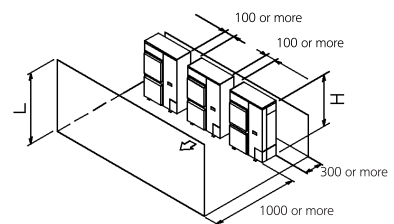
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



3D069554

12 Installation

12 - 1 Installation Method

12

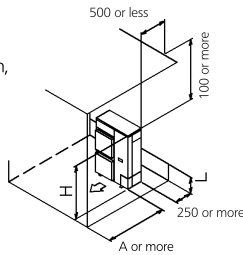
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● **Obstacle above, too**

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

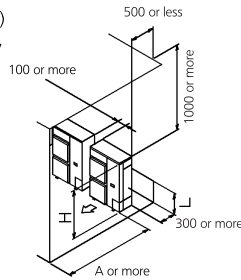


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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

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

Limit of series installation is 2 units.

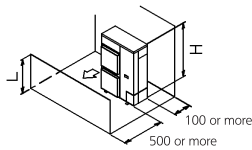


Pattern 2

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

● **No obstacle above**

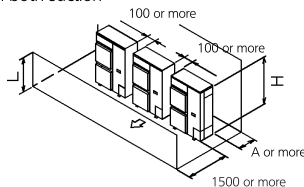
- ① Stand-alone installation
 - No obstacle above



- 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 ≤ H	L ≤ 1/2 H	250 or more
	1/2 H < L ≤ H	300 or more

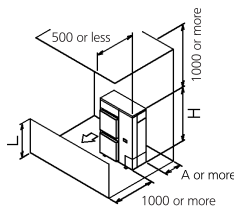


● **Obstacle above, too**

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

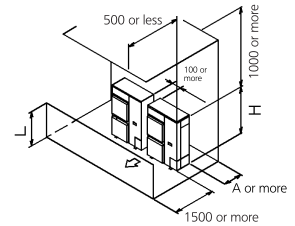


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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

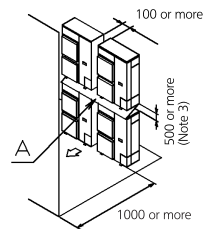
	L	A
L ≤ H	L ≤ 1/2 H	250 or more
	1/2 H < L ≤ H	300 or more
L > H	Set the stand as : L ≤ H Refer to the column of L ≤ H for A	

Limit of series installation is 2 units.

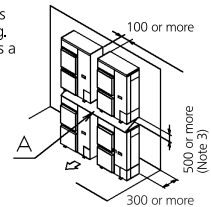


(D) Double-decker installation

- 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.

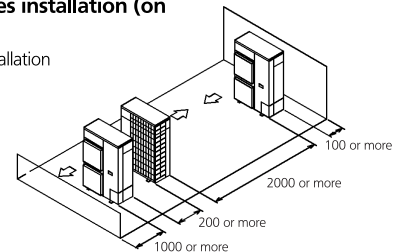


- ② Obstacle on the suction side. (Note 1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient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

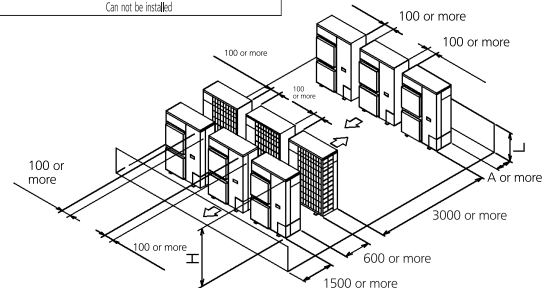
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

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

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



NOTES

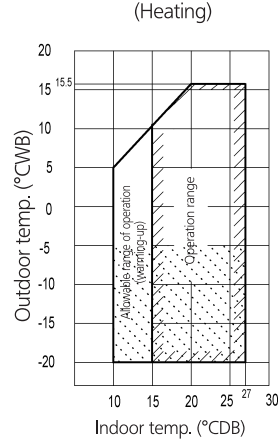
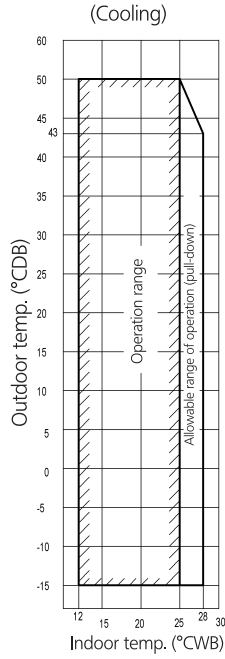
- In case of the sideways's piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between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

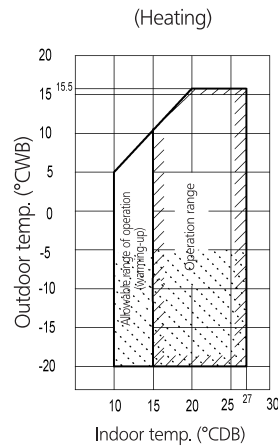
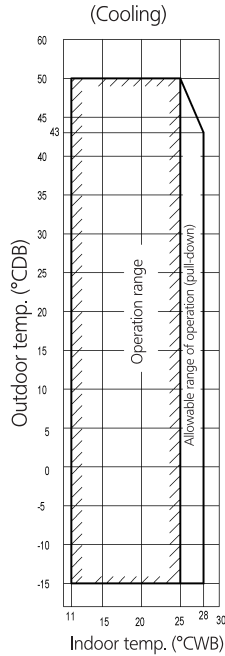


Notes:

- 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.

3D076502

RZQG-L(8)Y1 - EDP Room



Notes:

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

3D076503



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