DAIKIN

Air Conditioning

Technical Data

EEDEN13-100

RZQG-L(8)Y1

TABLE OF CONTENTS

RZQG-L(8)Y1

1 Features

- Seasonal smart series already comply with EU's 2014 Eco-Design requirements
- Top efficiency: - new compressor that offers substantial efficiency improvements - new control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - newly designed heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load) - via improved nominal performances
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits computer room applications (EDP)
- Re-use of existing R-22 or R-407C technology
- Extended operation range down to -20ºC in heating
- Maximum piping length up to 75m, minimum piping length is 5m.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Seasonal efficiency, optimized for all seasons.
- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.

Inverter

2 Specifications

2-1 Nominal Capacity And Nominal Input				FCQHG71F/RZQG71L8Y1	FCQHG100F/RZQG100L8Y1	FCQHG125F/RZQG125L8Y1	FCQHG140F/RZQG140LY1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		7.00		6.61	-
		Annual energy consumption	kWh	340	475	635	-
	Heating (Average climate)	Energy label		A+	A++		-
		Pdesign	kW	7.60	11.30	12.66	-
		SCOP		4.54	4.80	4.63	-
		Annual energy consumption	kWh	2,343	3,295	3,829	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			4.09	4.42	4.00	3.35
	COP			4.80	4.99	4.40	4.12
	Annual energy consumption		kWh	830	1,075	1,500	2,000
	Energy label	Cooling		A			-
		Heating		A			-

Notes

(1) EER/COP according to Eurovent 2012

2-1 Nominal Capacity And Nominal Input				FCQG71F/RZQG71L8Y1	FCQG100F/RZQG100L8Y1	FCQG125F/RZQG125L8Y1	FCQG140F/RZQG140LY1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.80		6.00	-
		Annual energy consumption	kWh	350	488	700	-
	Heating (Average climate)	Energy label		A+	A++	A+	-
		Pdesign	kW	6.33	11.30	12.66	-
		SCOP		4.20	4.61	4.10	-
		Annual energy consumption	kWh	2,110	3,431	4,322	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.39	3.87	3.73	3.21
	COP			3.97	4.15	3.63	3.61
	Annual energy consumption		kWh	1,005	1,225	1,610	2,085
	Energy label	Cooling		A			-
		Heating		A			-

Notes

(1) EER/COP according to Eurovent 2012

2-1 Nominal Capacity And Nominal Input				FDQ125C/RZQG125L8Y1
Cooling capacity	Nom.		kW	12.0
Heating capacity	Nom.		kW	13.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+
		Pdesign	kW	12.00
		SEER		5.81
		Annual energy consumption	kWh	722
	Heating (Average climate)	Energy label		A+
		Pdesign	kW	12.71
		SCOP		4.21
		Annual energy consumption	kWh	4,226

2 Specifications

2-1 Nominal Capacity And Nominal Input				FDQ125C/RZQG125L8Y1
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.75
	COP			3.83
	Annual energy consumption		kWh	1,600
	Energy label	Cooling		A
		Heating		A

Notes

(1) EER/COP according to Eurovent 2012

2-1 Nominal Capacity And Nominal Input				FAQ71C/RZQG71L8Y1	FAQ100C/RZQG100L8Y1
Cooling capacity	Nom.		kW	6.8	9.5
Heating capacity	Nom.		kW	7.5	10.8
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	
		Pdesign	kW	6.80	9.50
		SEER		6.51	6.11
		Annual energy consumption	kWh	365	544
	Heating (Average climate)	Energy label		A+	
		Pdesign	kW	6.33	10.20
		SCOP		4.02	4.01
		Annual energy consumption	kWh	2,204	3,561
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.40	3.62
	COP			3.70	3.61
	Annual energy consumption		kWh	1,000	1,315
	Energy label	Cooling		A	
		Heating		A	

Notes

(1) EER/COP according to Eurovent 2012

2-1 Nominal Capacity And Nominal Input				FBQ71C8/RZQG71L8Y1	FBQ100C8/RZQG100L8Y1	FBQ125C8/RZQG125L8Y1	FBQ140C8/RZQG140LY1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	A+		-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.11	5.80	5.81	-
		Annual energy consumption	kWh	389	573	722	-
	Heating (Average climate)	Energy label		A+	A++	A+	-
		Pdesign	kW	6.00	11.30	12.71	-
		SCOP		4.01	4.61	4.21	-
		Annual energy consumption	kWh	2,094	3,431	4,226	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.50	3.89	3.81	3.33
	COP			3.65	4.21	3.83	3.61
	Annual energy consumption		kWh	970	1,220	1,575	2,010
	Energy label	Cooling		A			-
		Heating		A			-

Notes

(1) EER/COP according to Eurovent 2012

2 Specifications

2-1 Nominal Capacity And Nominal Input				FVQ71C/RZQG71L8Y1	FVQ100C/RZQG100L8Y1	FVQ125C/RZQG125L8Y1	FVQ140C/RZQG140LY1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	A+		-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.31	5.61		-
		Annual energy consumption	kWh	377	592	748	-
	Heating (Average climate)	Energy label		A+		A	-
		Pdesign	kW	6.33	11.30		-
		SCOP		4.05	4.20	3.87	-
		Annual energy consumption	kWh	2,188	3,766	4,087	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.37	3.81	3.21	
	COP			3.64	4.14	3.70	3.61
	Annual energy consumption		kWh	1,010	1,245	1,870	2,085
	Energy label	Cooling		A			-
		Heating		A			-

Notes

(1) EER/COP according to Eurovent 2012

2-1 Nominal Capacity And Nominal Input				FHQ71C/RZQG71L8Y1	FHQ100C/RZQG100L8Y1	FHQ125C/RZQG125L8Y1	FHQ140C/RZQG140LY1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+	-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		6.95	6.11	6.01	-
		Annual energy consumption	kWh	342	544	698	-
	Heating (Average climate)	Energy label		A+	A++	A+	-
		Pdesign	kW	7.60	11.30	14.13	-
		SCOP		4.32	4.61	4.23	-
		Annual energy consumption	kWh	2,462	3,431	4,676	-
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.82	4.13	3.52	3.31
	COP			4.13	4.42	3.89	3.63
	Annual energy consumption		kWh	890	1,245	1,790	2,025
	Energy label	Cooling		A			-
		Heating		A			-

Notes

(1) EER/COP according to Eurovent 2012

2-1 Nominal Capacity And Nominal Input				FUQ71C/RZQG71L8Y1	FUQ100C/RZQG100L8Y1	FUQ125C/RZQG125L8Y1
Cooling capacity	Nom.		kW	6.8	9.5	12.0
Heating capacity	Nom.		kW	7.5	10.8	13.5
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+
		Pdesign	kW	6.80	9.50	12.00
		SEER		6.50	6.11	5.61
		Annual energy consumption	kWh	366	544	748
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	7.60	11.30	14.13
		SCOP		4.20	4.50	4.44
		Annual energy consumption	kWh	2,533	3,515	4,456

2 Specifications

2-1 Nominal Capacity And Nominal Input				FUQ71C/RZQG71L8Y1	FUQ100C/RZQG100L8Y1	FUQ125C/RZQG125L8Y1
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			4.07	4.08	3.40
	COP			4.47	4.04	
	Annual energy consumption		kWh	840	1,230	1,770
	Energy label	Cooling		A		
		Heating		A		

2

Notes

(1) EER/COP according to Eurovent 2012

2-2 Technical Specifications					RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Capacity control	Method				Inverter controlled			
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height		mm	990	1,430		
		Width		mm	940			
		Depth		mm	320			
	Packed unit	Height		mm	1,170	1,610		
		Width		mm	1,015			
		Depth		mm	422			
Weight	Unit			kg	80	101		
	Packed unit			kg	91	114		
Heat exchanger	Fin	Type			WF fin			
		Treatment			Anti-corrosion treatment (PE)			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
	Starting method				Inverter driven			
Fan	Type				Propeller fan			
	Discharge direction				Horizontal			
	Quantity				1	2		
	Air flow rate	Cooling	Nom.	m³/min	59	70		84
			Super low	m³/min	-			
				cfm	-			
		Heating	Nom.	m³/min	49	62		
			Super low	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	-			
Sound power level	Cooling	Nom.		dBA	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52
	Heating	Nom.		dBA	50	52	53	
	Night quiet mode	Level 1		dBA	43	45		
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			Max.	°CDB	50			
	Heating	Ambient	Min.	°CWB	-20			
			Max.	°CWB	15.5			
Refrigerant	Type				R-410A			
	Charge			kg	2.9	4.0		
	Control				Expansion valve (electronic type)			
	GWP				1,975			
	Circuits	Quantity			1			

2 Specifications

2-2 Technical Specifications					RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Refrigerant oil	Type				FVC50K			
	Charged volume			l	0.9	1.35		
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD		mm	9.52			
	Gas	Quantity			1			
		Type			Flare connection			
		OD		mm	15.9			
	Drain	Quantity			5			
		Type			Hole			
		ID		mm	-			
		OD		mm	26			
	Piping length	OU - IU	Min.	m	5 (2)			
			Max.	m	50	75		
		System	Equivalent	m	70	90		
			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			

2-3 Electrical Specifications				RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Power supply	Name			Y1			
	Phase			3N~			
	Frequency		Hz	50			
	Voltage		V	380-415			
	Voltage range	Min.	%	10			
		Max.	%	10			
Current	Zmax	List		Complies to EN61000-3-11			
	Recommended fuses		A	16	20	25	
Current - 50Hz	Maximum fuse amps (MFA)		A	16	20		
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) PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

(2) 3 with re-charging

(3) See separate drawing for electrical data

3 Electrical data

3 - 1 Electrical Data

RZQG71L8Y1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQG71L8Y1	50Hz 220-240V	Min. 198V Max. 264V	18,8	—	20	—	16,2	0,07	0,3	0,091	0,5
FCQG35FVEB	×2				18,9	—	20	—	16,2	0,07	0,3	0.044×2	0.3×2
FCQG71FVEB					18,7	—	20	—	16,2	0,07	0,3	0,054	0,4
FFQ35B9V1B	×2				19,2	—	20	—	16,2	0,07	0,3	0.055×2	0.4×2
FBQ35C8VEB	×2				21,2	—	25	—	16,2	0,07	0,3	0.140×2	1.2×2
FBQ71C8VEB					19,5	—	20	—	16,2	0,07	0,3	0,350	1,1
FHQ35BWV1B	×2				19,7	—	20	—	16,2	0,07	0,3	0.062×2	0.6×2
FHQG71CVEB					19,2	—	20	—	16,2	0,07	0,3	0,091	0,8
FAQ71CVEB					18,7	—	20	—	16,2	0,07	0,3	0,048	0,4
FVQ71CVEB					18,9	—	20	—	16,2	0,07	0,3	0,117	0,6
FHQ35CAVEB	×2				19,1	—	20	—	15,7	0,07	0,3	0,060 x 2	0,6 x 2
FHQ71CAVEB					18,6	—	20	—	15,7	0,07	0,3	0,091	0,8

SYMBOLS

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

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB

2 TOCA means the total value of each OC set.

3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.

4 Maximum allowable voltage variation between phases is 2%.

5 MCA represents maximum input current. MFA represents capacity which may accept MCA.
(next lower standard fuse rating, min.15A)

6 Select wire size based on the larger value of MCA or TOCA.

7 MFA is used to select the circuit breaker and the ground fault circuit interrupter.
(earth leakage circuit breaker)

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3 Electrical data

3 - 1 Electrical Data

RZQG100L8Y1

Indoor		Outdoor	Phase – Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQG100EVEB		RZQG100L8Y1	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,0
FCQHG100FVEB					18,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,221	1,3
FCQG35FVEB	×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
FFQ35B9V1B	×3				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×3	0.4×3
FFQ50B9V1B	×2				18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×2	0.7×2
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
FHQ35BWV1B	×3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×3	0.6×3
FHQ50BWV1B	×2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×2	0.6×2
FHQG100CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,2
FUQ100BWV1B					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,289	1,0
FAQ100CVEB					17,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,064	0,4
FVQ100CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CAVEB	x3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ50CAVEB	x2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 2	0,6 x 2
FHQ100CAVEB					18,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,3
FUQ100CVEB					18,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,3

SYMBOLS

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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 orabove listed range limits.

4 Maximum allowable voltage variation between phases is 2%.

5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)

6 Select wire size based on the larger value of MCA or TOCA.

7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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3 Electrical data

3 - 1 Electrical Data

RZQG100-125L8Y1

Unit combination			Minimum Ssc value [kVA]
FFQ35B9V1B	x3	RZQG100L8Y1B	936
FFQ50B9V1B	x2		951
FHQ35BWV1B	x3		977
FHQ50BWV1B	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
FUQ100BWV1B	x1		925
FFQ35B9V1B	x4	RZQG125L8Y1B	962
FFQ50B9V1B	x3		993
FFQ60B9V1B	x2		951
FHQ35BWV1B	x4		1014
FHQ50BWV1B	x3		977
FHQ60BWV1B	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
FUQ125BWV1B	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)] ≧ 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 ≦ 75A per phase.
[(2)] Short-circuit power

3 Electrical data

3 - 1 Electrical Data

RZQG125-140L(8)Y1

Indoor		Outdoor	Phase – Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQG125EVEB		RZQG125L8Y1	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG125FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG60FVEB	×2				17,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35B9V1B	×4				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×4	0.4×4
FFQ50B9V1B	×3				19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×3	0.7×3
FFQ60B9V1B	×2				18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×2	0.7×2
FBQ35C8VEB	×4				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FHQ35BWV1B	×4				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×4	0.6×4
FHQ50BWV1B	×3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×3	0.6×3
FHQ60BWV1B	×2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×2	0.6×2
FHQG125CVEB					18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,6
FUQ125BWV1B					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,289	1,0
FDQ125C7VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FVQ125CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CAVEB	x4				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ60CAVEB	x2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x 2	0,6 x 2
FHQ125CAVEB					18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,5
FUQ125CVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,4
FCQG71EVEB	×2	RZQG140L8Y1	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FCQG140EVEB					17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG71FVEB	×2				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35B9V1B	×4				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×4	0.4×4
FFQ50B9V1B	×3				19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0.055×3	0.7×3
FBQ35C8VEB	×4				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FHQ35BWV1B	×4				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×4	0.6×4
FHQ50BWV1B	×3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.062×3	0.6×3
FHQG71CVEB	×2				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091×2	0.8×2
FHQG140CVEB					18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71BWV1B	×2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.180×2	0.6×2
FAQ71CVEB	×2				17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FVQ140CVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FHQ35CAVEB	x4				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ71CAVEB	x2				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x 2	0,8 x 2
FHQ140CAVEB					18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,046 x 2	0,9 x 2

SYMBOLS

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

NOTES

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

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4 Options

4 - 1 Options

RZQG-L(8)Y1

Available options for RZQG models:

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

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NOTES

1 For combination of RZQG71L8V1 and EKBPH140L7 it is required to use the demand adapter kit KRP58M51 in order to connect the bottom plate heater.

2 For RZQ(S)G71-140L(8)Y1 in combination with FCQG35-71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

5 Combination table

5 - 1 Combination Table

RZQG-L(8)Y1

Multi Combination Possibilities:

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

(*): Max capacity depend on outdoor unit

SKY-AIR	Hi cassette				Thin cassette							2x2 cassette			Duct (medium ESP)							Ceiling suspended							4way ceiling			Wall mounted		High EP duct	Floor standing			
Model name	FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35B9W1B	FFQ50B9W1B	FFQ60B9W1B	FBQ35C9VEB	FBQ50C9VEB	FBQ60C9VEB	FBQ71C9VEB	FBQ100C9VEB	FBQ125C9VEB	FBQ140C9VEB	FHQ35CAVEB	FHQ50CAVEB	FHQ60CAVEB	FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB	FUQ71CVEB	FUQ100CVEB	FUQ125CVEB	FAQ71CVEB	FAQ100CVEB	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
RZQG71L8Y1	P				2			P				2			2			P				2			P				P			P			P			
RZQG100L8Y1		P			3	2			P			3	2		3	2			P			3	2			P				P			P			P		
RZQG125L8Y1			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P				P			P			P	
RZQG140LY1	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P

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NOTES

1 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).

2 When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.

3 See the option list for the selection of the refnet kits that are necessary to install the combinations:
Twin: KHRQ22M20TA orKHRQ58T
Triple: KHRQ127H orKHRQ58H
Double twin: KHRQ22M20TA orKHRQ58T

5 Combination table

5 - 1 Combination Table

RZQG-L(8)Y1

EDP room combination table

SKY-AIR	Hi cassette				Thin cassette						2x2 cassette			Duct (medium ESP)						Ceiling suspended						4way ceiling			Wall mounted		High ESP duct	Floor standing		
Model name	FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB	FCQHG140FVEB	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35B8V1B	FFQ50B8V1B	FFQ60B8V1B	FBQ35C8VEB	FBQ50C8VEB	FBQ60C8VEB	FBQ71C8VEB	FBQ100C8VEB	FBQ125C8VEB	FBQ140C8VEB	FHQ35CAVEB	FHQ50CAVEB	FHQ60CAVEB	FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB	FUQ71CVEB	FUQ100CVEB	FUQ125CVEB	FAQ71CVEB	FAQ100CVEB	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
RZQG71L8Y1		P			3	2			P			3	2		3	2			P			3	2			P				P			P			
RZQG100L8Y1	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P
RZQG125L8Y1	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P
RZQG140LY1																																						

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

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NOTES

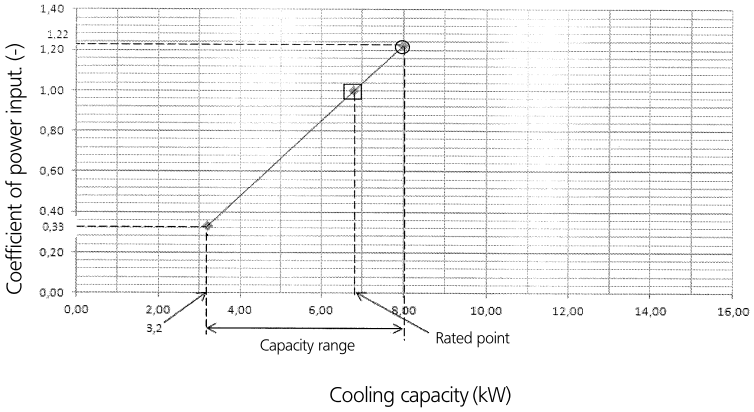
1 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
2 When different indoor models are used in combination, designate the remote controller that is equipped with the most functions as the main unit.
3 See the option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

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG71L8Y1

Cooling



Cooling

Indoor		Outdoor temperature (°CDB)											
		25			30			35			40		
		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	8,03	5,45	1,00	7,76	5,32	1,11	7,48	5,20	1,21	7,21	5,06	1,32
18,0	25	8,40	5,45	1,00	8,11	5,32	1,11	7,83	5,19	1,22	7,54	5,05	1,33
19,0	27	8,59	5,44	1,01	8,30	5,32	1,12	**8,00**	**5,18**	**1,22**	7,70	5,05	1,33
19,5	27	8,68	5,43	1,01	8,39	5,31	1,12	8,09	5,17	1,22	7,79	5,05	1,33
22,0	30	9,15	5,38	1,01	8,84	5,25	1,12	8,52	5,13	1,23	8,21	4,99	1,34
24,0	32	9,53	5,31	1,03	9,20	5,19	1,13	8,87	5,06	1,25	8,54	4,92	1,35

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ◯ show the max. at standard conditions.
   On the figure the mark with ▭ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

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

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BWx2	FHQ35CAx2
AFR (BF)	12.5x2 (0.4x2)	10x2 (0.25x2)	16x2 (0.15x2)	13x2 (0.20x2)	14x2 (0.17x2)

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

(Pair)

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FUQ71BW	FAQ71C	FVQ71C	FHQ71CA	FUQ71C
Cooling	1.66	2.01	1.94	1.78	1.68	2.00	2.02	1.78	1.67

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BWx2	FHQ35CAx2
Cooling	2.04	2.14	1.98	2.38	2.34

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

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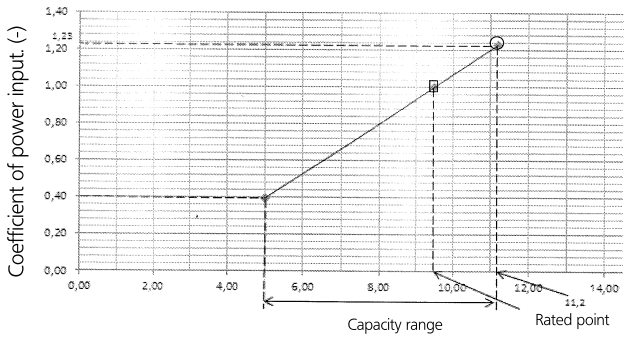
6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG100L8Y1

Cooling



Cooling

Indoor		Outdoor temperature (°CDB)											
		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	11,2	7,61	1,01	10,8	7,44	1,11	10,5	7,29	1,22	10,1	7,09	1,32
18,0	25	11,8	7,59	1,01	11,4	7,49	1,12	11,0	7,27	1,23	10,5	7,09	1,33
19,0	27	12,0	7,57	1,02	11,6	7,44	1,12	**11,2**	**7,26**	**1,23**	10,8	7,04	1,33
19,5	27	12,1	7,59	1,02	11,7	7,37	1,13	11,4	7,34	1,23	10,9	7,04	1,34
22,0	30	12,8	7,52	1,02	12,4	7,36	1,13	11,9	7,16	1,24	11,5	7,03	1,35
24,0	32	13,3	7,42	1,03	12,9	7,27	1,14	12,4	7,06	1,25	12,0	6,91	1,36

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ◯ show the max. at standard conditions.
   On the figure the mark with ▭ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	20.0 (0.09)	29.0 (0.07)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	31.0 (0.20)

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35BWx3	FHQ35CAx3
AFR (BF)	12.5x3 (0.4x3)	10x3 (0.25x3)	16x3 (0.15x3)	13x3 (0.20x3)	14x3 (0.17x3)

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

(Pair)

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
Cooling	2.15	2.45	2.44	2.49	2.46	2.63	2.49	2.49	2.33

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35BWx3	FHQ35CAx3
Cooling	2.38	2.44	2.51	2.97	2.91

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50BWx2	FHQ50CAx2
AFR (BF)	12.6x2 (0.22x2)	12x2 (0.16x2)	16x2 (0.16x2)	13x2 (0.10x2)	15x2 (0.18x2)

(Twin)

	FCQG50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50BWx2	FHQ50CAx2
Cooling	2.32	2.44	2.51	2.97	2.93

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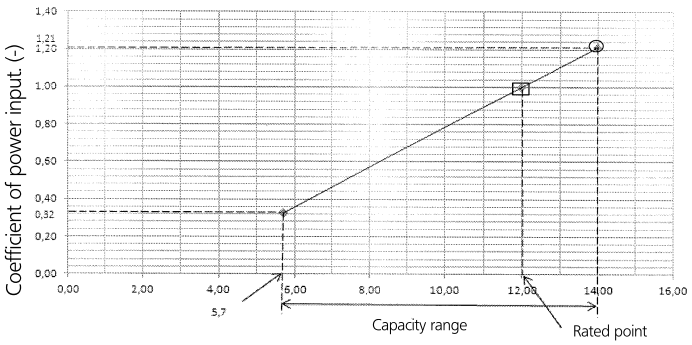
6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG125L8Y1

Cooling



Cooling

Indoor		Outdoor temperature (°CDB)											
		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	14,1	9,54	1,00	13,6	9,30	1,10	13,1	9,12	1,20	12,6	8,78	1,31
18,0	25	14,7	9,50	1,00	14,2	9,32	1,10	13,7	9,09	1,21	13,2	8,83	1,32
19,0	27	15,0	9,52	1,01	14,5	9,34	1,11	**14,0**	**9,06**	**1,21**	13,5	8,87	1,32
19,5	27	15,2	9,52	1,01	14,7	9,26	1,12	14,2	9,08	1,21	13,6	8,81	1,32
22,0	30	16,0	9,39	1,01	15,5	9,14	1,12	14,9	8,95	1,23	14,4	8,74	1,33
24,0	32	16,7	9,31	1,02	16,1	9,09	1,13	15,5	8,83	1,24	15,0	8,63	1,34

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ◯ show the max. at standard conditions.
   On the figure the mark with ▭ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
AFR (BF)	33.5 (0.19)	33.0 (0.21)	39.0 (0.16)	31.0 (0.134)	32.0 (0.07)	39.0 (0.16)	28.0 (0.16)	31.0 (0.14)	32.5 (0.19)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
AFR (BF)	12.6x3 (0.22x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.10x3)	15x3 (0.18x3)

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

(Pair)

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
Cooling	3.00	3.22	3.15	3.58	3.54	3.20	3.74	3.58	3.44

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
Cooling	3.17	3.41	3.28	3.72	3.66

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BWx2	FHQ60CAx2
AFR (BF)	13.6x2 (0.2x2)	15x2 (0.11x2)	18x2 (0.15x2)	17x2 (0.20x2)	19.5x2 (0.20x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
AFR (BF)	12.5x4 (0.4x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.20x4)	14x4 (0.17x4)

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BWx2	FHQ60CAx2
Cooling	3.14	3.41	3.28	3.72	3.67

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
Cooling	3.23	3.41	3.28	3.72	3.64

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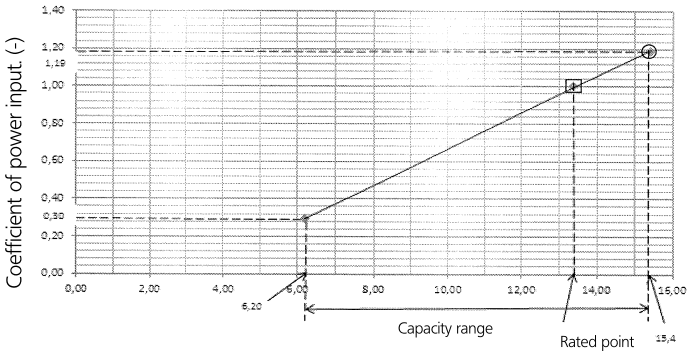
6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG140LY1

Cooling



Cooling

Indoor		Outdoor temperature (°CDB)											
		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	15,5	10,47	0,98	14,9	10,25	1,08	14,4	10,03	1,18	13,9	9,69	1,28
18,0	25	16,2	10,55	0,98	15,6	10,21	1,09	15,1	10,01	1,19	14,5	9,71	1,30
19,0	27	16,6	10,43	0,99	16,0	10,18	1,09	**15,4**	**9,98**	**1,19**	14,8	9,76	1,30
19,5	27	16,7	10,49	0,99	16,1	10,16	1,10	15,6	10,00	1,19	15,0	9,66	1,30
22,0	30	17,6	10,37	0,99	17,0	10,16	1,10	16,4	9,83	1,21	15,8	9,60	1,31
24,0	32	18,4	10,20	1,00	17,7	10,00	1,11	17,0	9,67	1,22	16,4	9,47	1,32

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ◯ show the max. at standard conditions.
   On the figure the mark with ▭ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA
AFR (BF)	33.5 (0.15)	33 (0.23)	39 (0.14)	34 (0.17)	30 (0.18)	34 (0.17)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
AFR (BF)	12.6x3 (0.22x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.10x3)	15x3 (0.18x3)

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71Cx2	FHQG71Cx2	FAQ71Cx2	FUQ71BWx2	FHQ71CAx2	FUQ71Cx2
AFR (BF)	21.2x2 (0.2x2)	21.5x2 (0.14x2)	18x2 (0.08x2)	20.5x2 (0.13x2)	18x2 (0.16x2)	19x2 (0.07x2)	20.5x2 (0.13x2)	23x2 (0.24x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
AFR (BF)	12.5x4 (0.4x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.20x4)	14x4 (0.20x4)

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

(Pair)

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA
Cooling	4.00	4.17	4.02	4.05	4.17	4.05

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
Cooling	4.12	4.20	3.75	4.31	4.25

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71Cx2	FHQG71Cx2	FAQ71Cx2	FUQ71BWx2	FHQ71CAx2	FUQ71Cx2
Cooling	3.94	4.11	3.75	3.59	3.81	3.49	3.59	3.35

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
Cooling	4.18	4.20	3.75	4.31	4.23

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

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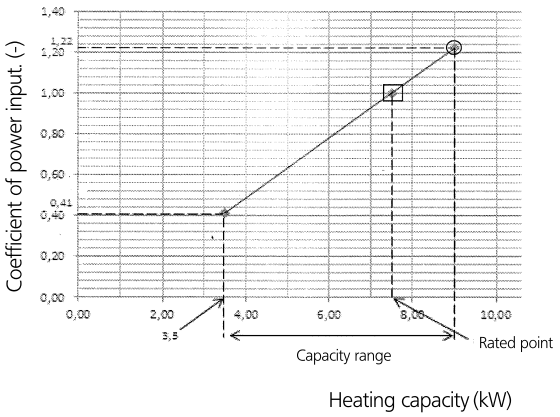
6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG71L8Y1

Heating



Heating

Indoor	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	-	kW	-	kW	-	kW	-	kW	-	kW	-
16	6.44	0.93	7.09	0.99	7.55	1.02	7.79	1.06	9.00	1.12	9.71	1.19
18	6.43	0.98	7.08	1.03	7.54	1.07	7.78	1.10	9.00	1.17	9.71	1.24
20	6.42	1.01	7.07	1.07	7.53	1.12	7.77	1.14	**9.00**	**1.22**	9.71	1.28
21	6.42	1.03	7.07	1.09	7.53	1.13	7.77	1.16	9.00	1.24	9.71	1.31
22	6.42	1.05	7.06	1.11	7.52	1.15	7.76	1.19	9.00	1.27	9.71	1.33
24	6.41	1.09	7.05	1.15	7.51	1.20	7.75	1.23	9.00	1.32	9.67	1.38

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ○ show the max. at standard conditions.
   On the figure the mark with □ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

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

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BWx2	FHQ35CAx2
AFR (BF)	12.5x2 (0.4x2)	10x2 (0.25x2)	16x2 (0.15x2)	13x2 (0.20x2)	14x2 (0.17x2)

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

(Pair)

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

(Twin)

	FCQG35Fx2	FFQ35B9x2	FBQ35Cx2	FHQ35BWx2	FHQ35CAx2
Heating	1.92	2.61	2.16	2.78	2.70

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

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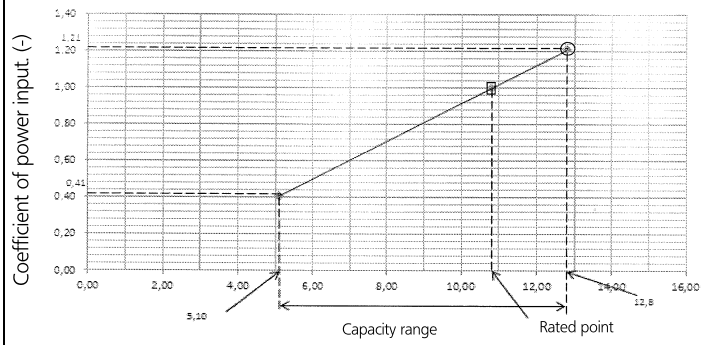
6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG100L8Y1

Heating



Heating

Indoor	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	-	kW	-	kW	-	kW	-	kW	-	kW	-
16	8.58	0.92	9.45	0.98	10.1	1.02	10.4	1.05	12.8	1.11	13.8	1.18
18	8.57	0.97	9.44	1.02	10.0	1.06	10.3	1.09	12.8	1.16	13.8	1.23
20	8.56	1.00	9.43	1.06	10.0	1.11	10.3	1.13	**12.8**	**1.21**	13.8	1.27
21	8.56	1.02	9.42	1.08	10.0	1.12	10.3	1.15	12.8	1.23	13.8	1.30
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.32
24	8.54	1.08	9.41	1.14	10.0	1.19	10.3	1.22	12.8	1.31	13.8	1.37

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ◯ show the max. at standard conditions.
   On the figure the mark with ▭ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
AFR (BF)	32.3 (0.17)	32.0 (0.17)	32.0 (0.13)	20.0 (0.09)	29.0 (0.07)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	31.0 (0.20)

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35BWx3	FHQ35CAx3
AFR (BF)	12.5x3 (0.4x3)	10x3 (0.25x3)	16x3 (0.15x3)	13x3 (0.20x3)	14x3 (0.17x3)

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

(Pair)

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FUQ100BW	FAQ100C	FVQ100C	FHQ100CA	FUQ100C
Heating	2.16	2.60	2.57	2.60	2.73	3.00	2.61	2.60	2.62

(Triple)

	FCQG35Fx3	FFQ35B9x3	FBQ35Cx3	FHQ35BWx3	FHQ35CAx3
Heating	2.51	2.79	2.86	3.32	3.20

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp.(°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50BWx2	FHQ50CAx2
AFR (BF)	12.6x2 (0.22x2)	12x2 (0.16x2)	16x2 (0.16x2)	13x2 (0.10x2)	15x2 (0.18x2)

(Twin)

	FCQG50Fx2	FFQ50B9x2	FBQ50Cx2	FHQ50BWx2	FHQ50CAx2
Heating	2.46	2.79	2.86	3.32	3.28

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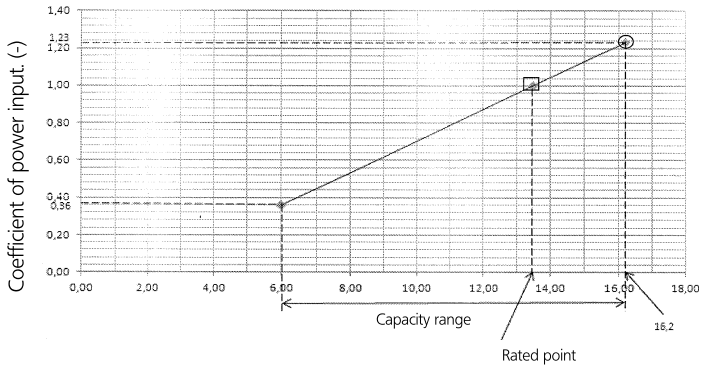
6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG125L8Y1

Heating



Heating

Indoor	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	-	kW	-	kW	-	kW	-	kW	-	kW	-
16	11.0	0.94	12.1	1.00	12.9	1.03	13.2	1.06	16.2	1.13	17.5	1.20
18	11.0	0.98	12.1	1.03	12.9	1.08	13.2	1.11	16.2	1.18	17.5	1.25
20	11.0	1.02	12.0	1.08	12.9	1.13	13.2	1.15	**16.2**	**1.23**	17.5	1.30
21	11.0	1.04	12.0	1.10	12.8	1.14	13.2	1.17	16.2	1.25	17.5	1.32
22	11.0	1.06	12.0	1.12	12.8	1.16	13.2	1.20	16.2	1.28	17.4	1.34
24	11.0	1.10	12.0	1.16	12.8	1.21	13.2	1.24	16.2	1.33	17.4	1.39

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ○ show the max. at standard conditions.
   On the figure the mark with □ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FUQ125BW	FDQ125C	FVQ125C	FHQ125CA	FUQ125C
AFR (BF)	33.5 (0.19)	33.0 (0.21)	39.0 (0.16)	31.0 (0.134)	32.0 (0.07)	39.0 (0.16)	28.0 (0.16)	31.0 (0.14)	32.5 (0.19)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
AFR (BF)	12.6x3 (0.22x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.10x3)	15x3 (0.18x3)

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

(Pair)

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

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
Heating	3.66	3.83	3.74	4.16	4.10

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BWx2	FHQ60CAx2
AFR (BF)	13.6x2 (0.2x2)	15x2 (0.11x2)	18x2 (0.15x2)	17x2 (0.20x2)	19.5x2 (0.20x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
AFR (BF)	12.5x4 (0.4x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.20x4)	14x4 (0.17x4)

(Twin)

	FCQG60Fx2	FFQ60B9x2	FBQ60Cx2	FHQ60BWx2	FHQ60CAx2
Heating	3.64	3.83	3.74	4.16	4.11

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
Heating	3.72	3.83	3.74	4.16	4.00

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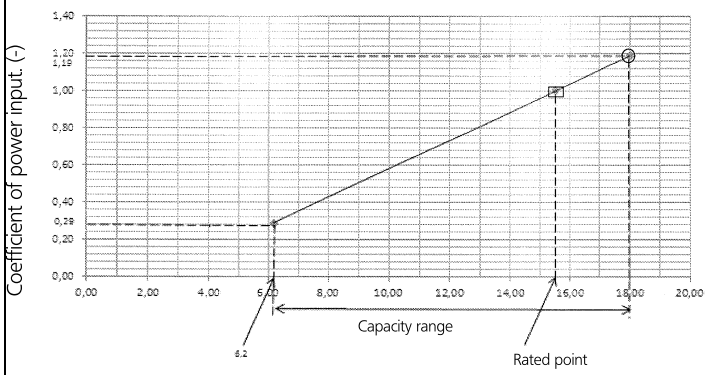
6 Capacity tables

6 - 2 Heating Capacity Tables

RZQG140LY1

Heating



Heating

Indoor	Outdoor temperature (°CWB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	-	kW	-	kW	-	kW	-	kW	-	kW	-
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	**18.0**	**1.19**	19.4	1.25
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.35

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the mark with ○ show the max. at standard conditions.
   On the figure the mark with □ show the rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on indoor EWB and EDB.
   SHC for other dry bulb temp. = SHC + SHC*.
   SHC* = SHC correction for other dry bulb.
   = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB).
4. Capacities are based on the following conditions:
   Outdoor air: 85% RH.
   However, the condition rated capacity in heating is 7° CDB / 6° CWB.
   Corresponding refrigerant piping length: 5.0 m.
   Level difference: 0 m.
5. Coefficient of power input is the percentage when the rated value is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and (BF) are given in table below:

(Pair)

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA
AFR (BF)	33.5 (0.15)	33 (0.23)	41 (0.14)	34 (0.17)	30 (0.18)	34 (0.17)

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
AFR (BF)	12.6x3 (0.22x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.10x3)	15x3 (0.18x3)

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71Cx2	FHQG71Cx2	FAQ71Cx2	FUQ71BWx2	FHQ71CAx2	FUQ71Cx2
AFR (BF)	21.2x2 (0.2x2)	21.5x2 (0.14x2)	18x2 (0.08x2)	20.5x2 (0.13x2)	18x2 (0.16x2)	19x2 (0.07x2)	20.5x2 (0.13x2)	23x2 (0.24x2)

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
AFR (BF)	12.5x4 (0.4x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.20x4)	14x4 (0.20x4)

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

(Pair)

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

(Triple)

	FCQG50Fx3	FFQ50B9x3	FBQ50Cx3	FHQ50BWx3	FHQ50CAx3
Heating	4.24	4.92	4.70	5.49	5.43

(Twin)

	FCQHG71Fx2	FCQG71Fx2	FBQ71Cx2	FHQG71Cx2	FAQ71Cx2	FUQ71BWx2	FHQ71CAx2	FUQ71Cx2
Heating	3.71	4.24	4.70	4.47	4.68	4.47	4.47	4.36

(Double twin)

	FCQG35Fx4	FFQ35B9x4	FBQ35Cx4	FHQ35BWx4	FHQ35CAx4
Heating	4.30	4.92	4.70	5.49	5.33

SYMBOLS

AFR: Air flow rate (m^3/min)
BF: Bypass factor
EWB: Entering wet bulb temp. (°CWB)
EDB: Entering dry bulb temp. (°CDB)
TC: Maximum Total cooling (heating) capacity (kW)
SHC: Sensible heat capacity (kW)
PI: Power input (comp.+indoor and outdoor fan motor)
CPI: Coefficient of power input. (-)

Caution:
TC and SHC are shown by kW.

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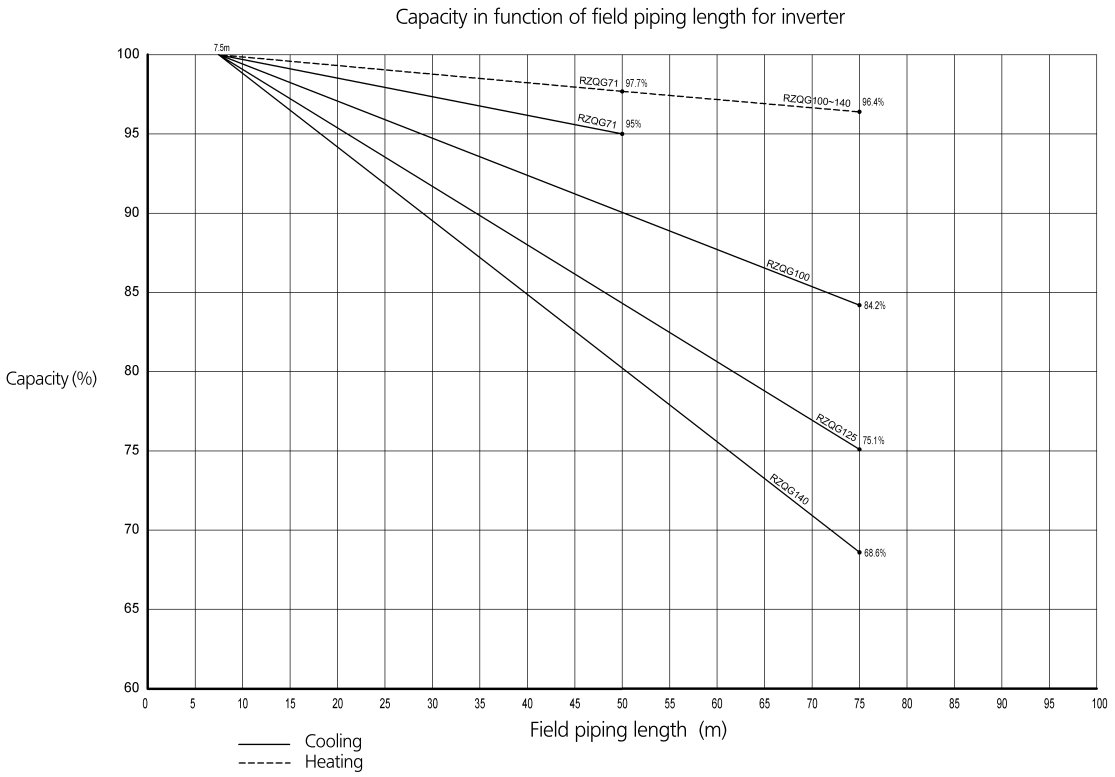
6 Capacity tables

6 - 3 Capacity Correction Factor

RZQG-L(8)Y1

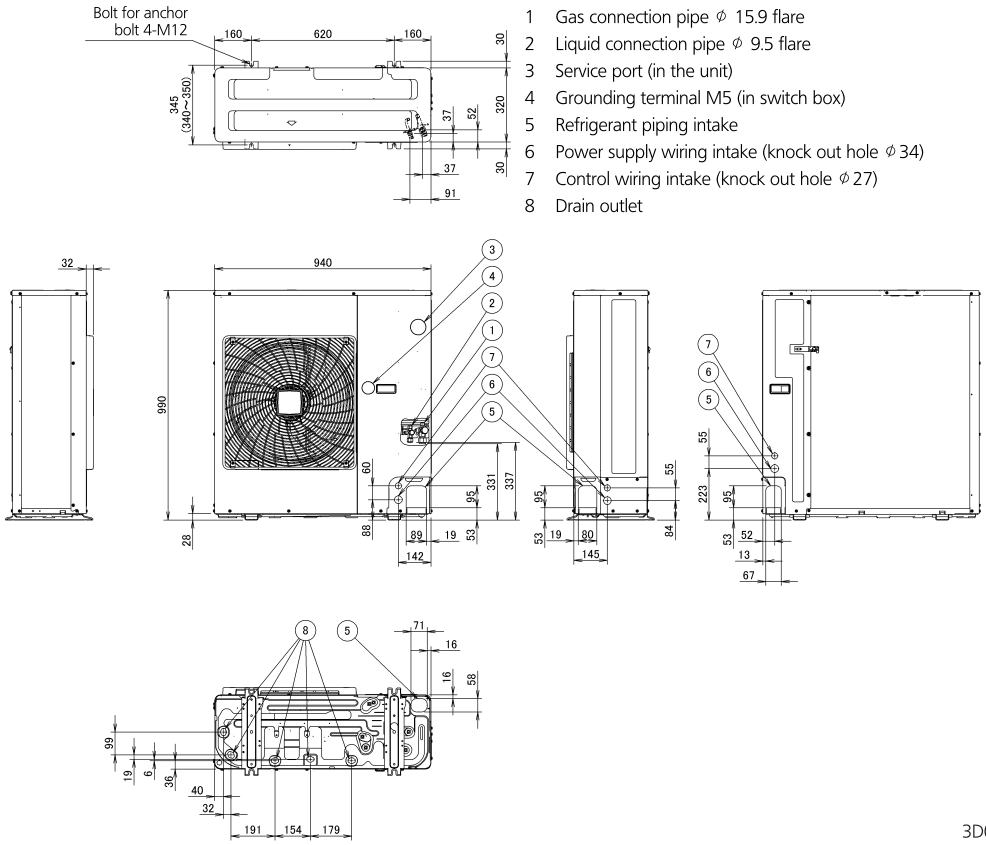


3D076249

7 Dimensional drawings

7 - 1 Dimensional Drawings

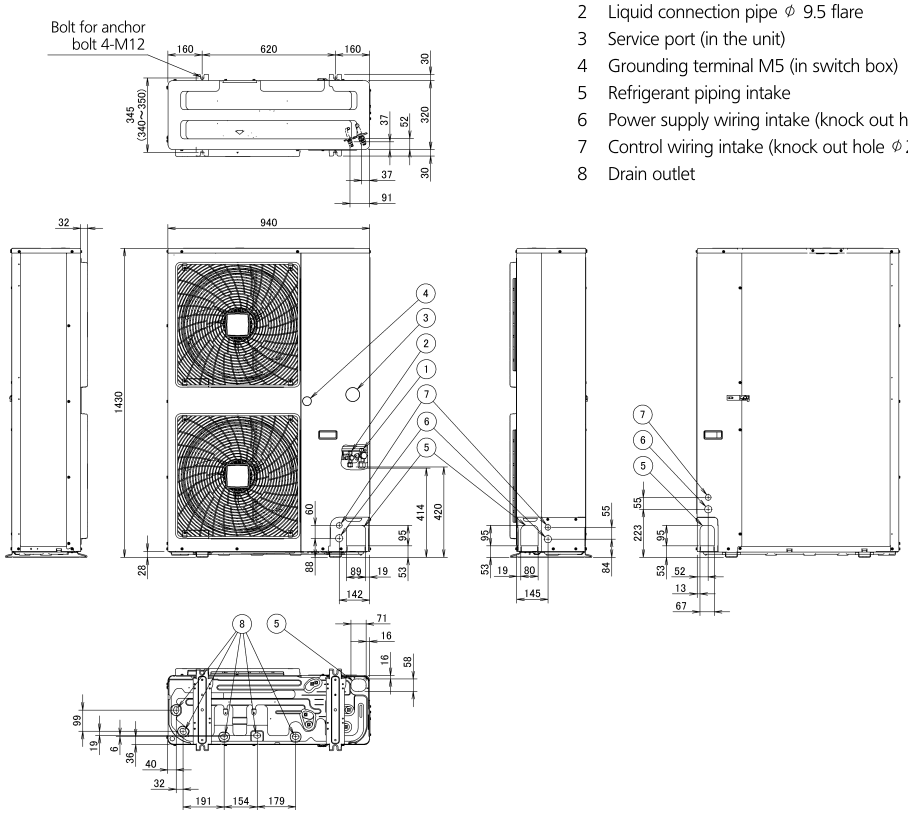
RZQG71L8Y1



1 Gas connection pipe ⌀ 15.9 flare
2 Liquid connection pipe ⌀ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ⌀34)
7 Control wiring intake (knock out hole ⌀27)
8 Drain outlet

3D076345

RZQG100-140L(8)Y1



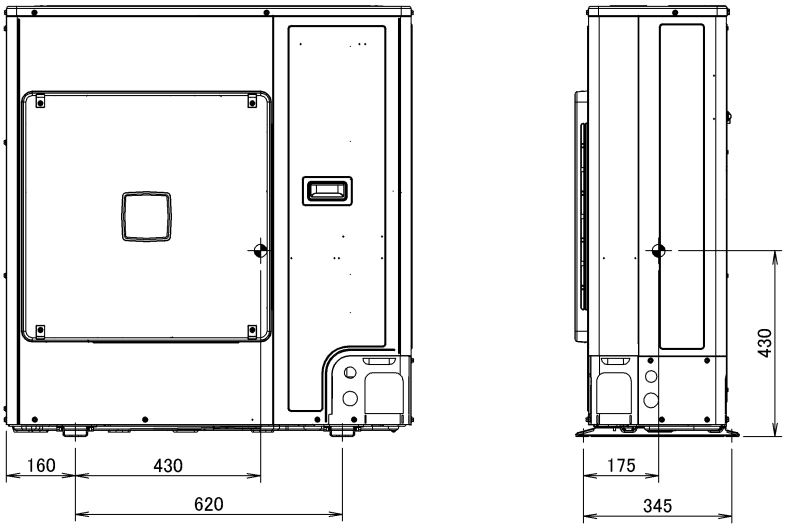
1 Gas connection pipe ⌀ 15.9 flare
2 Liquid connection pipe ⌀ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ⌀34)
7 Control wiring intake (knock out hole ⌀27)
8 Drain outlet

3D076346

8 Centre of gravity

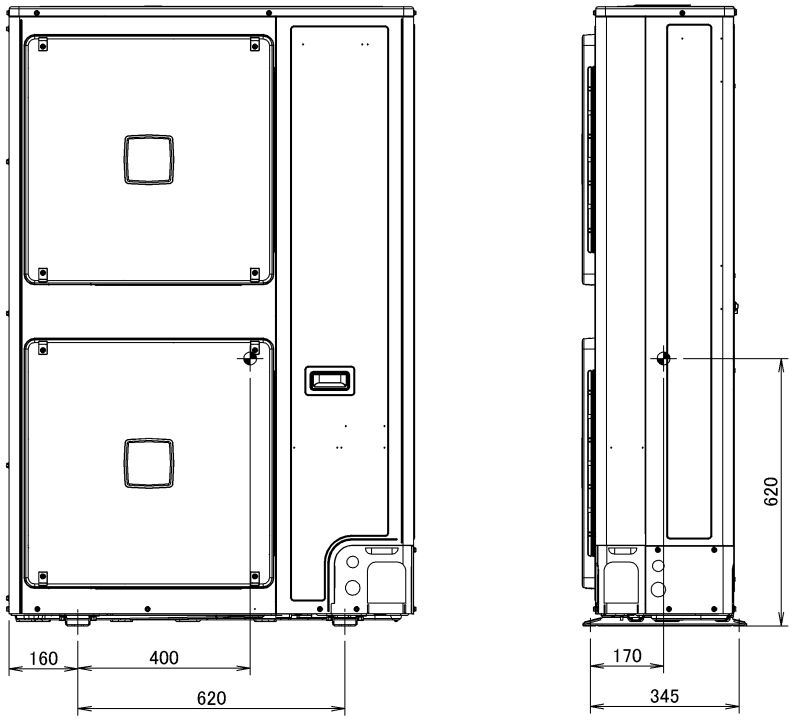
8 - 1 Centre of Gravity

RZQG71L8Y1



4D077807

RZQG100-140L(8)Y1

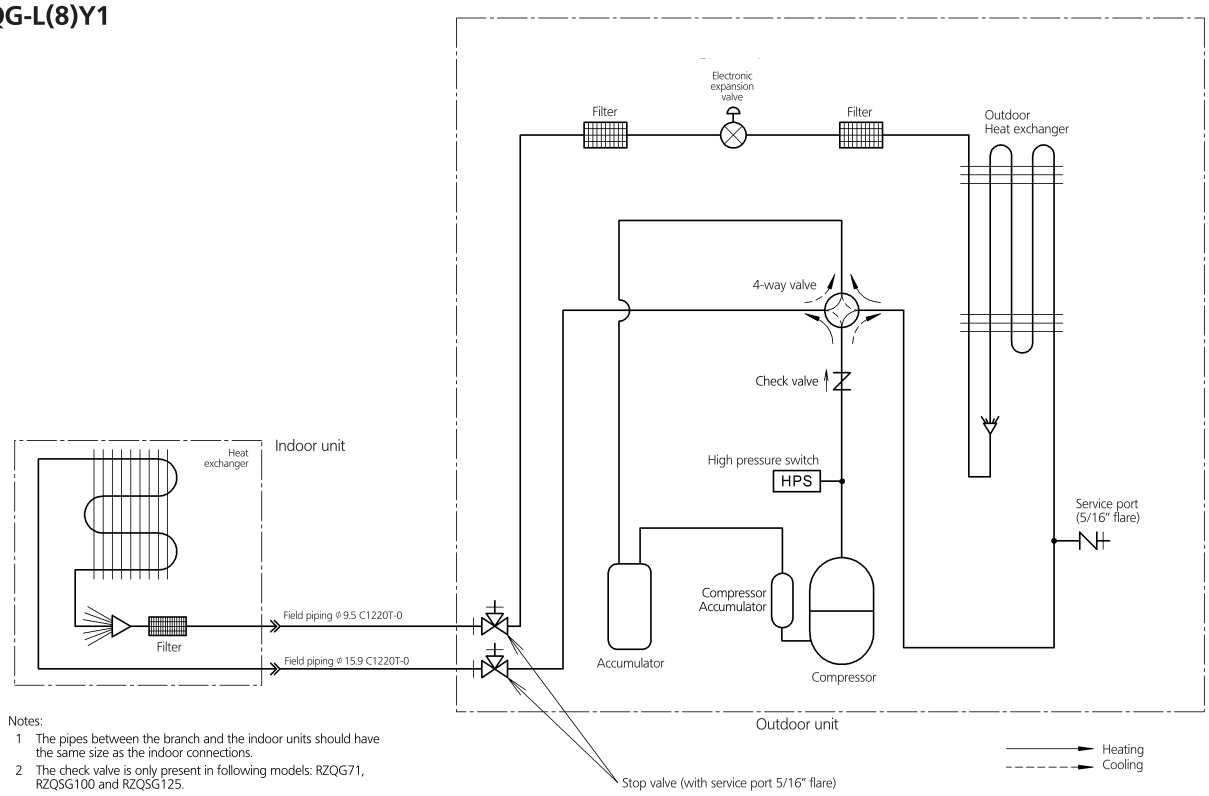


4D077808

9 Piping diagrams

9 - 1 Piping Diagrams

RZQG-L(8)Y1



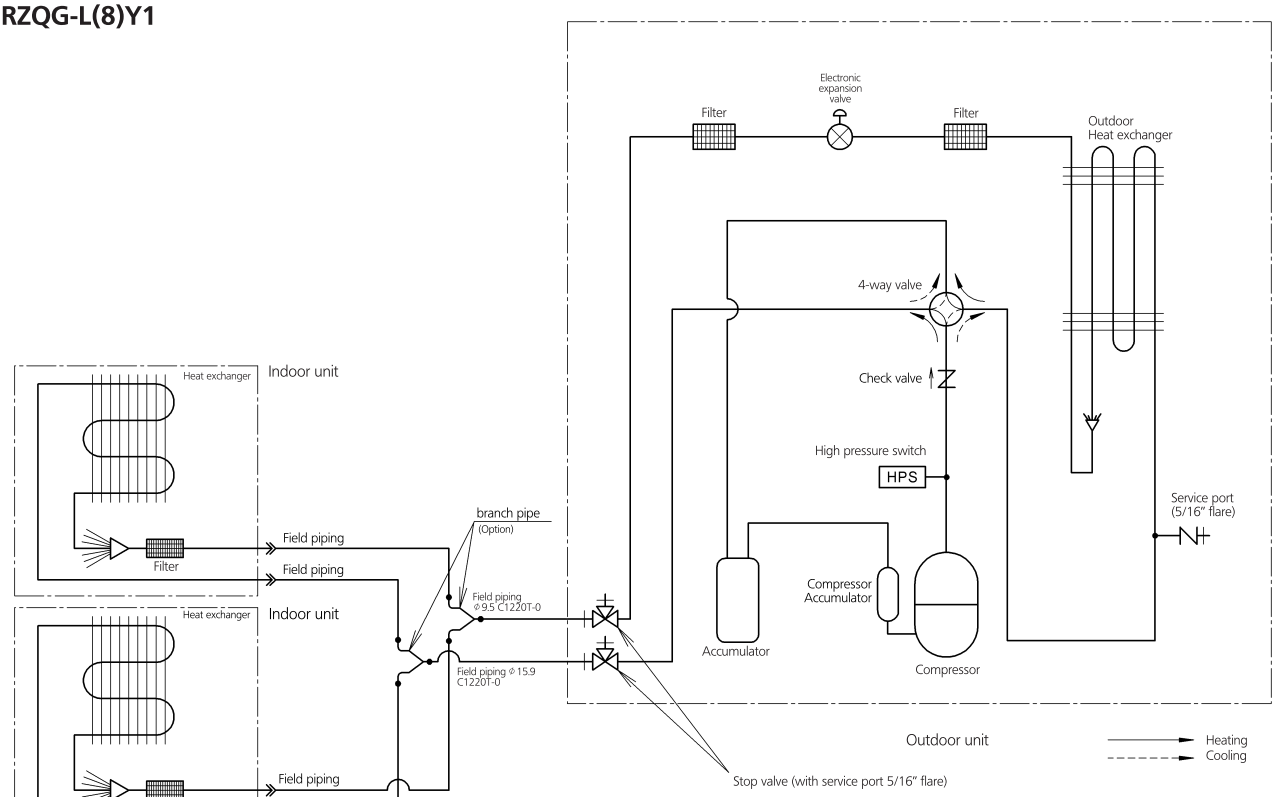
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQG71, RZQSG100 and RZQSG125.

3D076176

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZQG-L(8)Y1



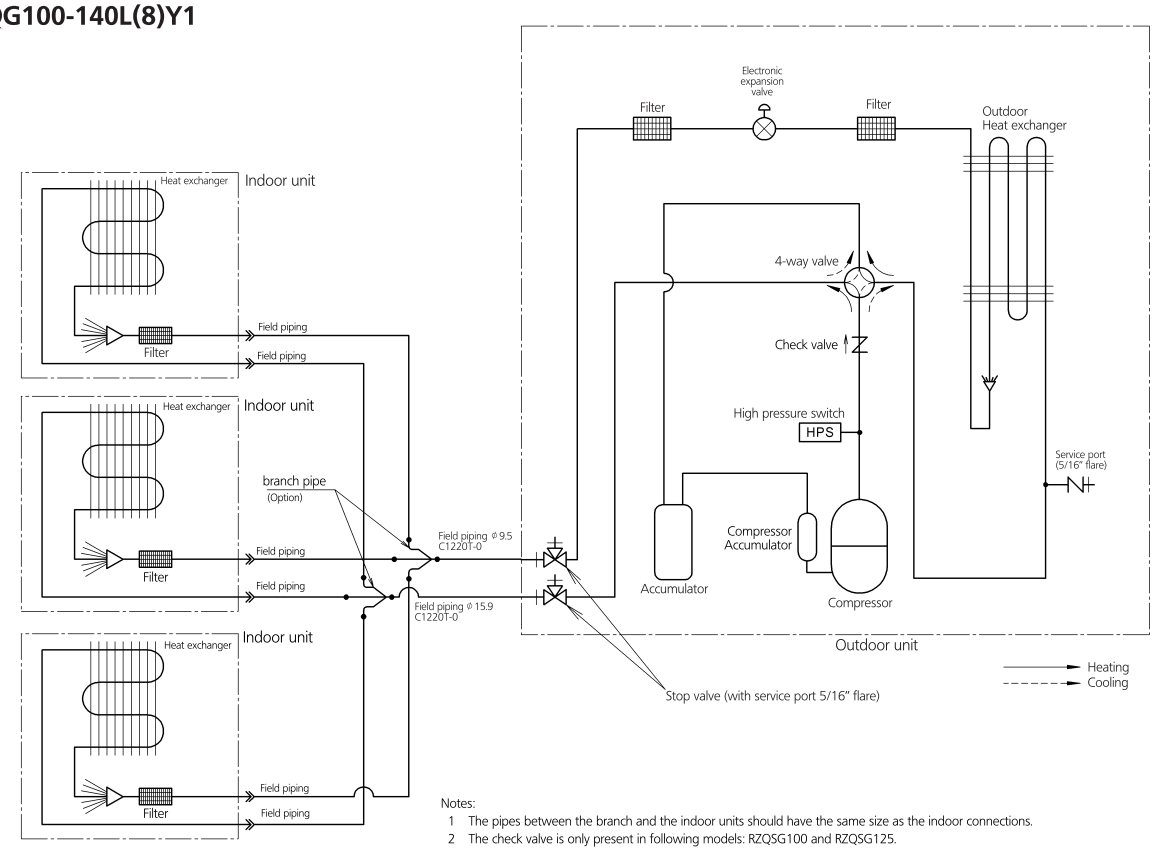
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQG71, RZQSG100 and RZQSG125.

3D076177

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZQG100-140L(8)Y1



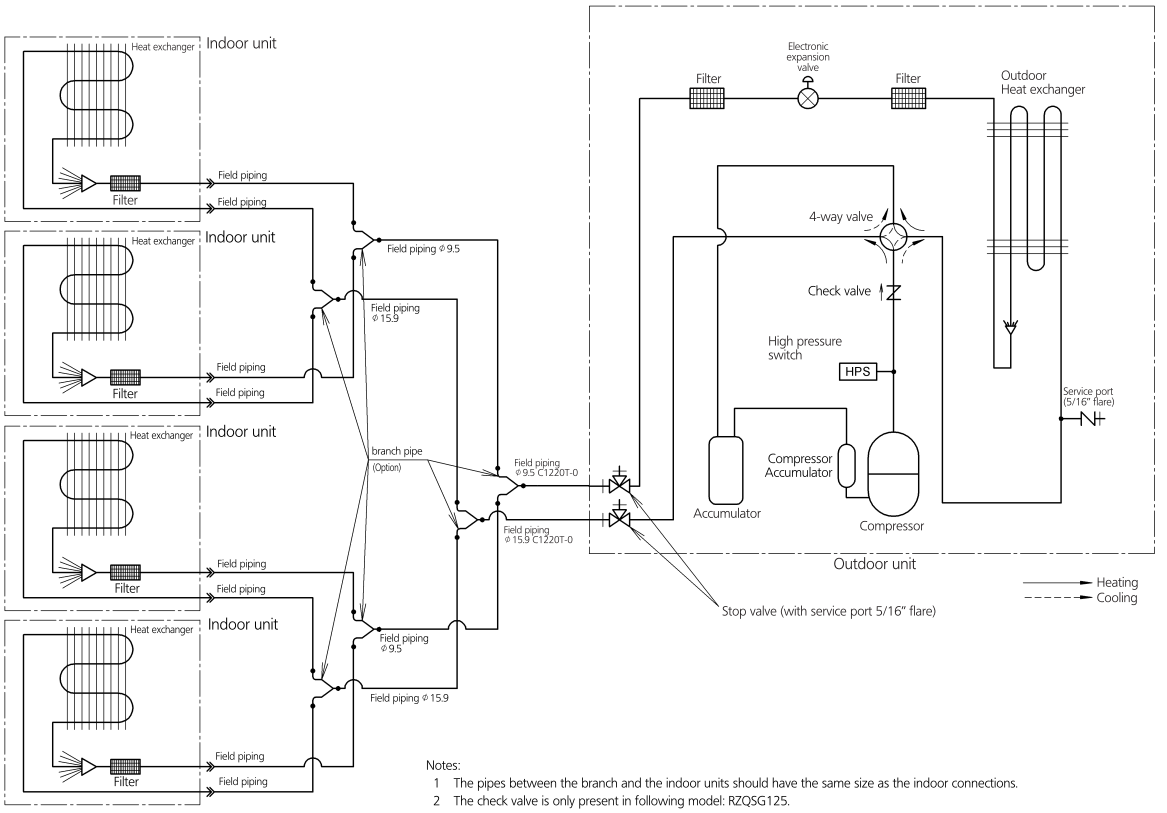
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQSG100 and RZQSG125.

3D076178

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZQG125-140L(8)Y1



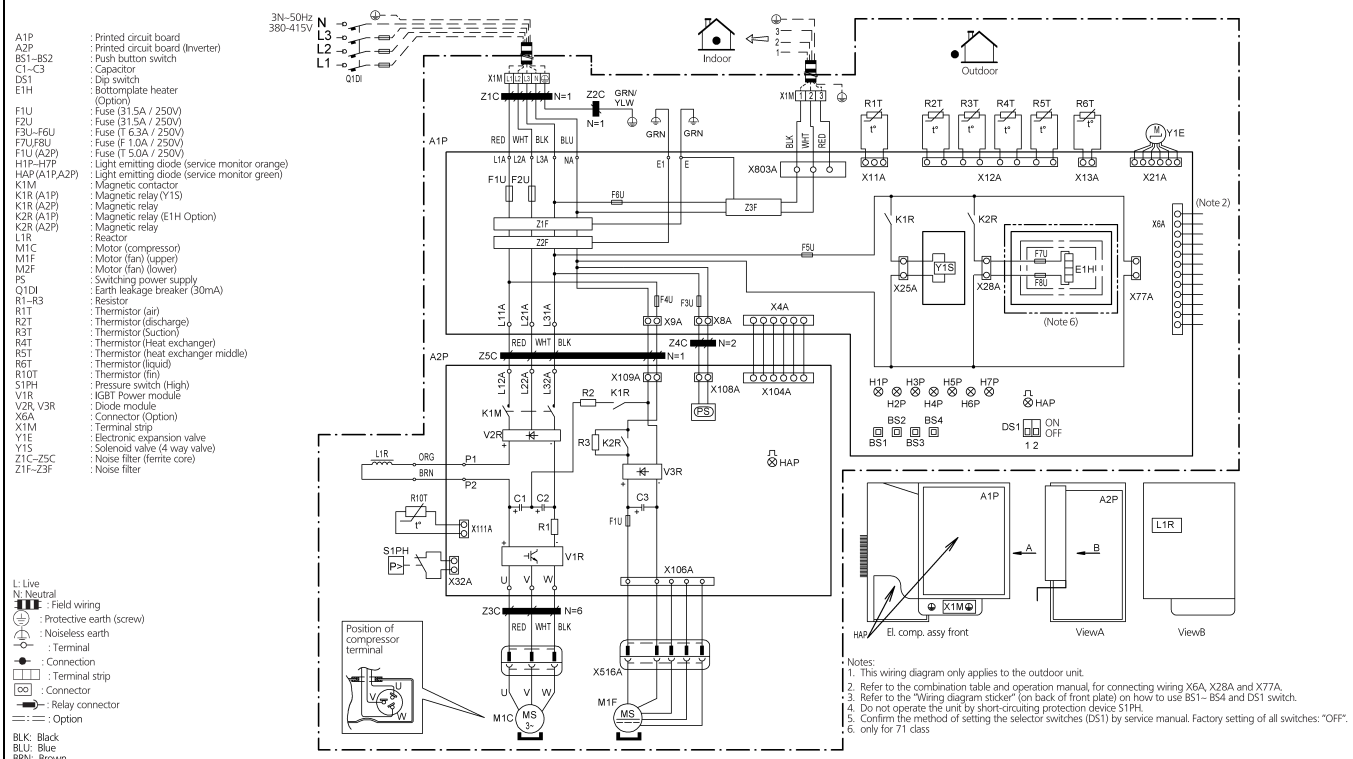
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following model: RZQSG125.

3D076179

10 Wiring diagrams

10 - 1 Wiring Diagrams - Three Phase

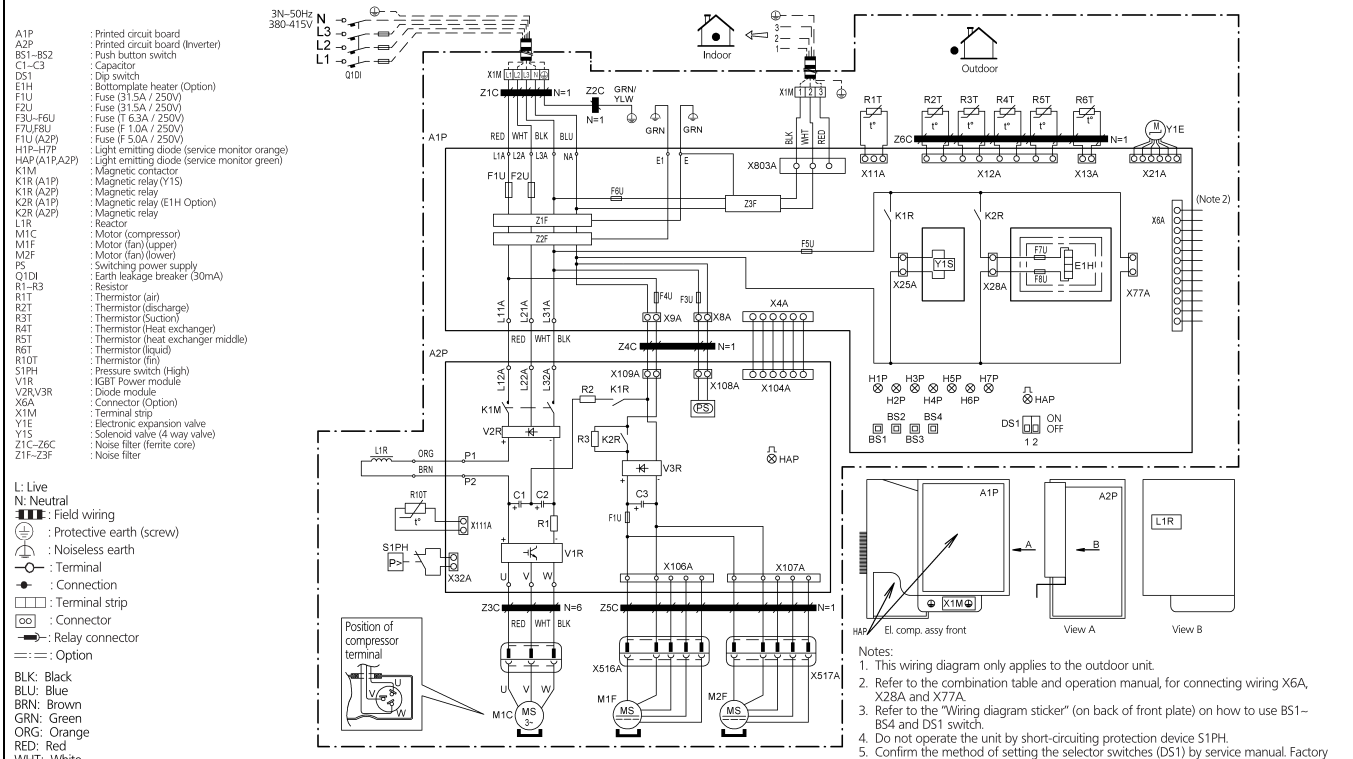
RZQG71L8Y1



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

2D080114B

RZQG100-140L(8)Y1



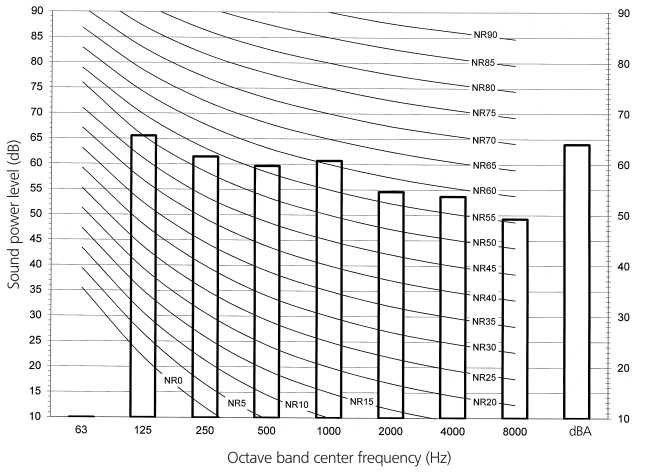
Notes:
1. This wiring diagram only applies to the outdoor unit.
2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1~ BS4 and DS1 switch.
4. Do not operate the unit by short-circuiting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

2D077192

11 Sound data

11 - 1 Sound Power Spectrum

RZQG71L8Y1

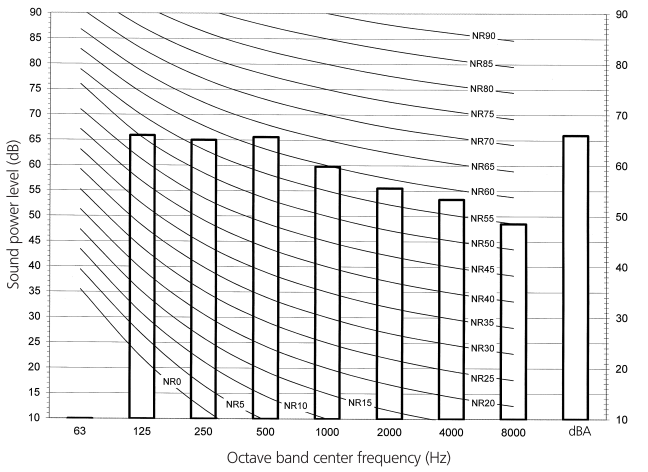


NOTES

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

3D077779

RZQG100L8Y1

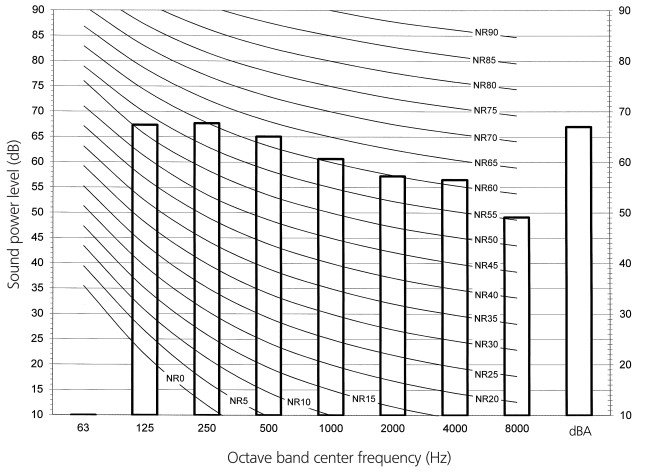


NOTES

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

3D077780

RZQG125L8Y1

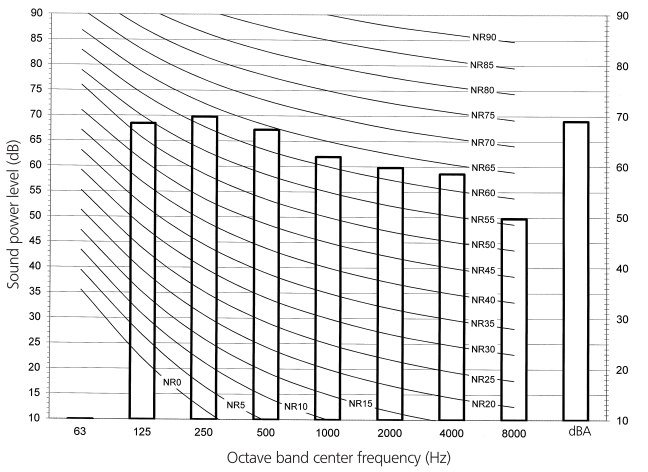


NOTES

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

3D077781

RZQG140LY1



NOTES

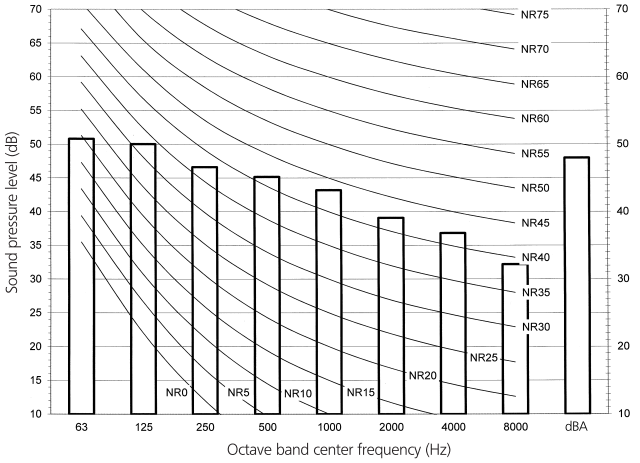
1 dBA = A-weighted sound power level (A-scale according to IEC)
2 Reference acoustic intensity 0 dB = 10E-6μW/m^2
3 Measured according to ISO 3744

3D077782

11 Sound data

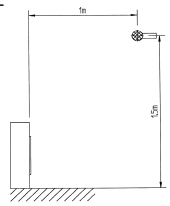
11 - 2 Sound Pressure Spectrum - Cooling

RZQG71L8Y1



NOTES

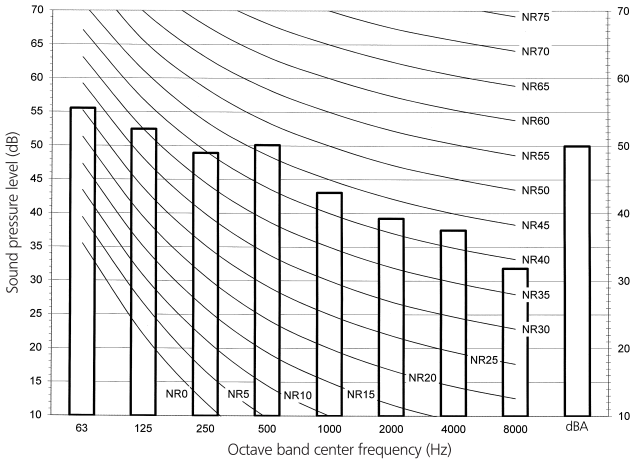
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

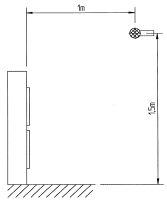
3D077793

RZQG100L8Y1



NOTES

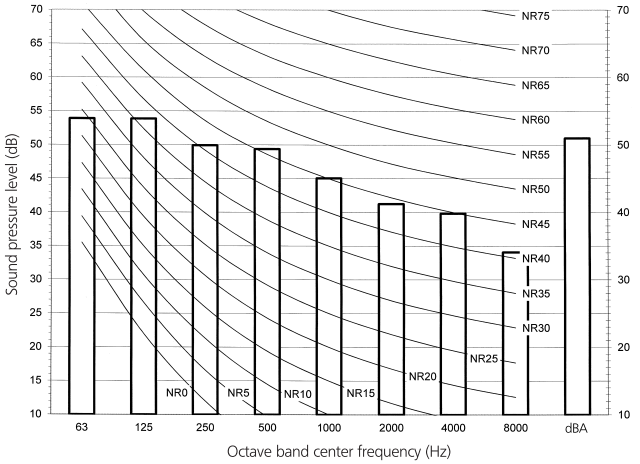
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

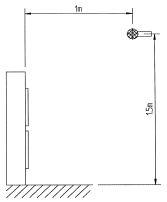
3D077794

RZQG125L8Y1



NOTES

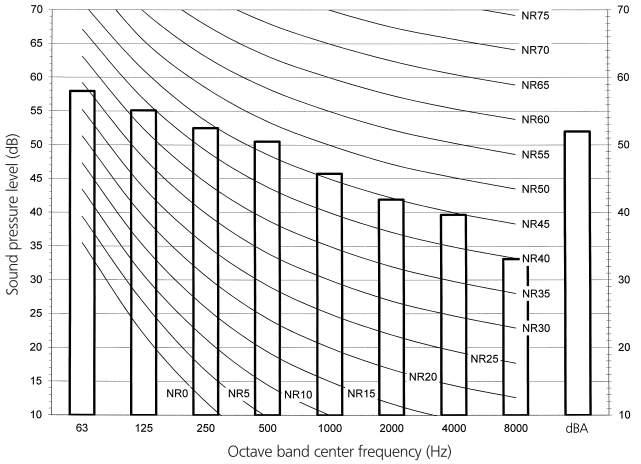
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

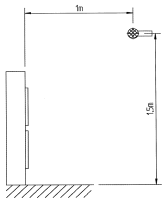
3D077795

RZQG140LY1



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.



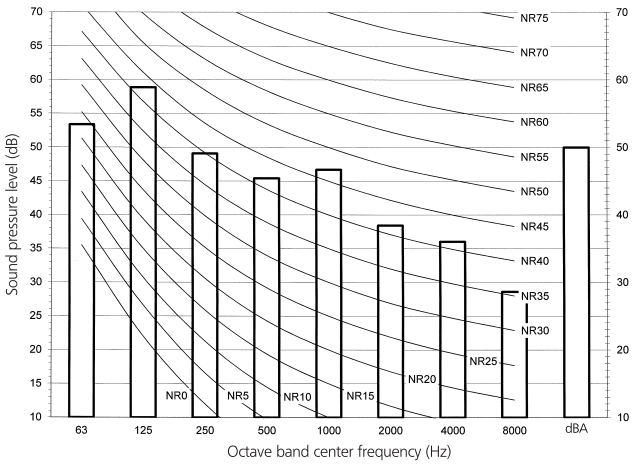
Measuring location (discharge side)

3D077796

11 Sound data

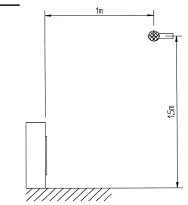
11 - 3 Sound Pressure Spectrum - Heating

RZQG71L8Y1



NOTES

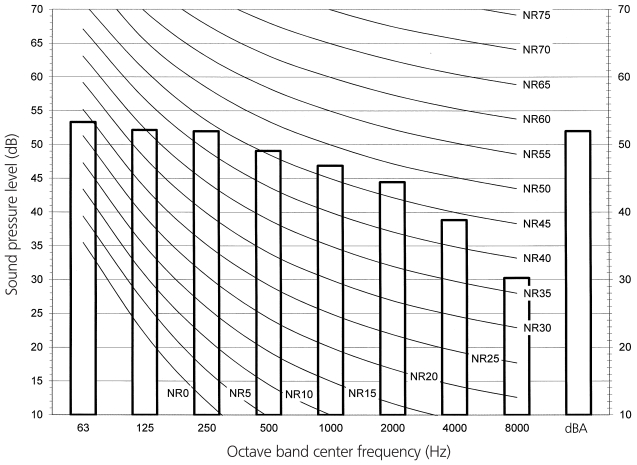
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

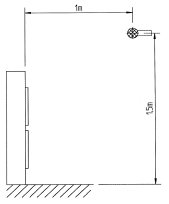
3D077800

RZQG100L8Y1



NOTES

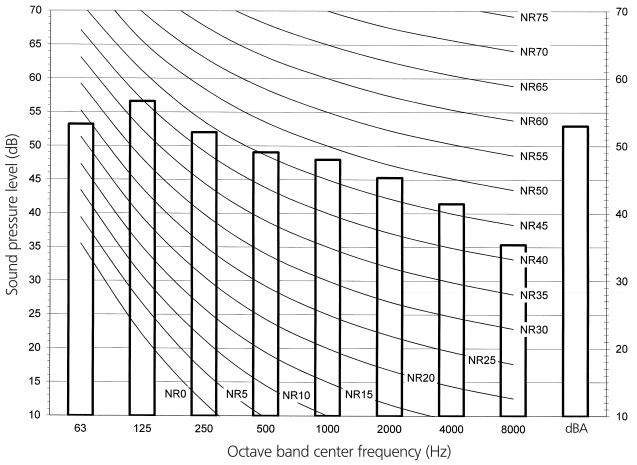
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

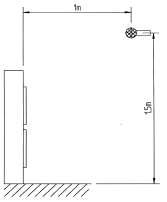
3D077801

RZQG125L8Y1



NOTES

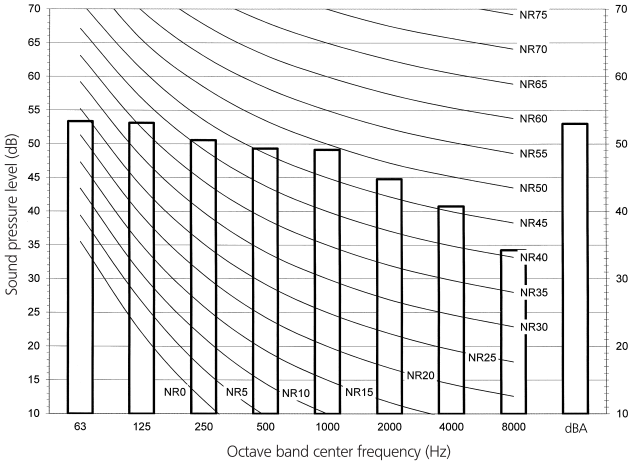
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

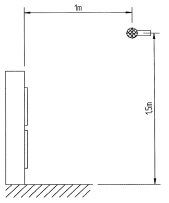
3D077802

RZQG140LY1



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.



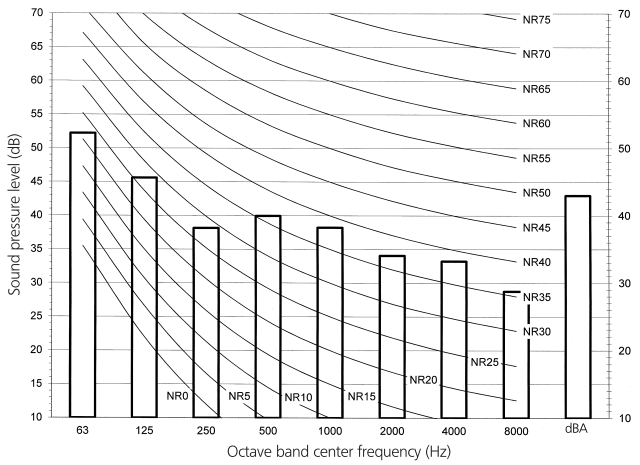
Measuring location (discharge side)

3D077803

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZQG71L8Y1



NOTES

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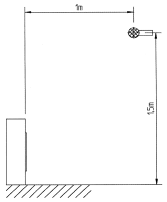
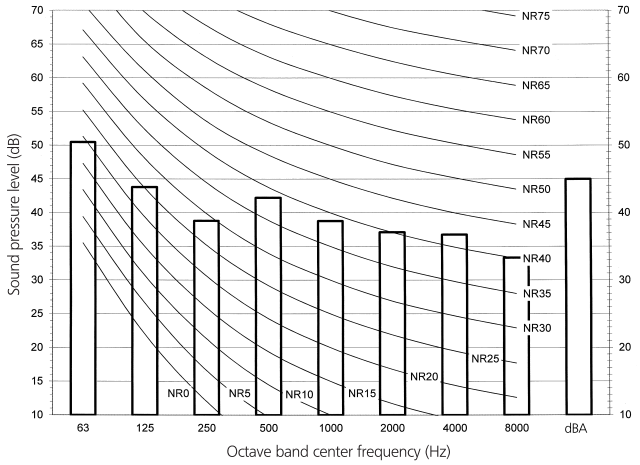
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

3D077786

RZQG100L8Y1



NOTES

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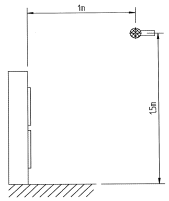
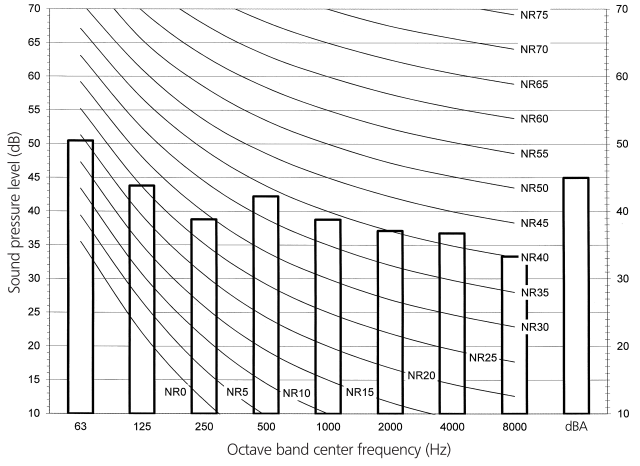
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

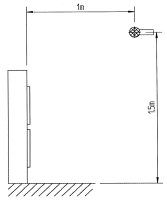
3D077787

RZQG125L8Y1



NOTES

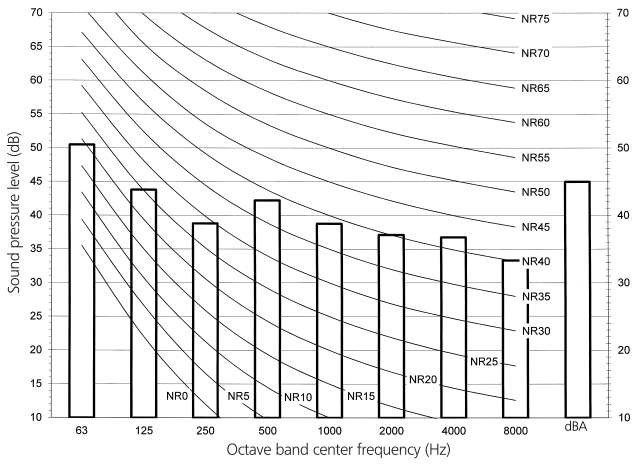
1 Data is valid at free field condition.
2 Data is valid at nominal operation condition.
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressures 0dB = 20µPa.



Measuring location (discharge side)

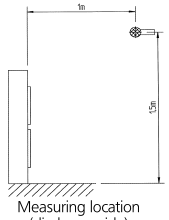
3D077788

RZQG140LY1



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.



Measuring location (discharge side)

3D077789

12 Installation

12 - 1 Installation Method

RZQG-L(8)Y1

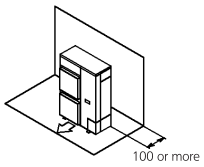
Installation service space

The measure of these values is "mm".

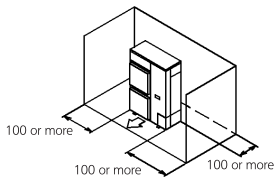
(A) When there are obstacles on suction sides.

● No obstacle above

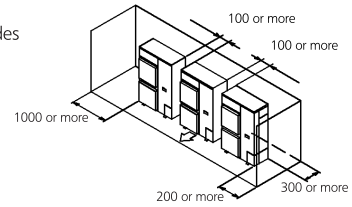
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

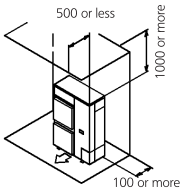


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

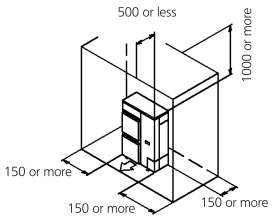


● Obstacle above, too.

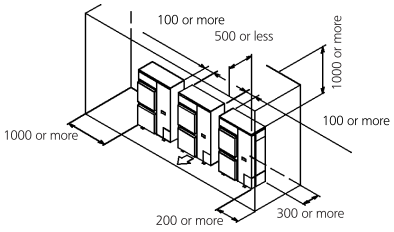
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



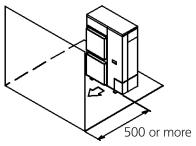
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



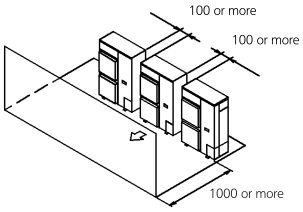
(B) When there are obstacles on discharge sides.

● No obstacle above

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

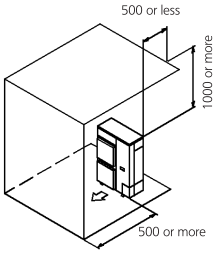


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

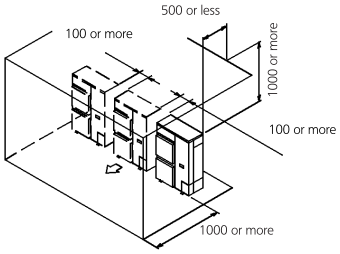


● Obstacle above, too

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



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



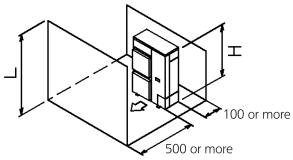
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

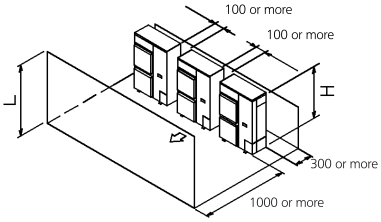
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

● No obstacle above

① Stand-alone installation
- No obstacle above



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



3D069554

12 Installation

12 - 1 Installation Method

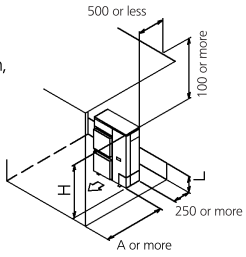
RZQG-L(8)Y1

● **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 ≦ 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	

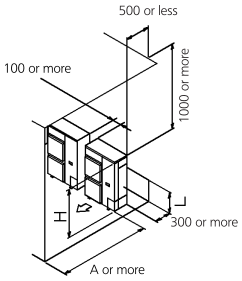


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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.

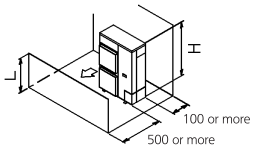


Pattern 2

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**

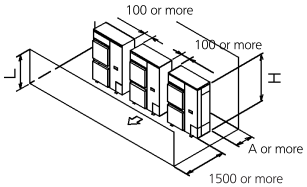
① Stand-alone installation
- No obstacle above



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 ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more

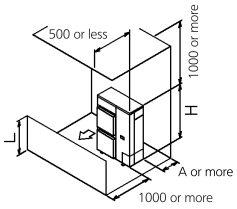


● **Obstacle above, too**

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	

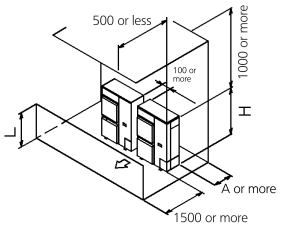


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

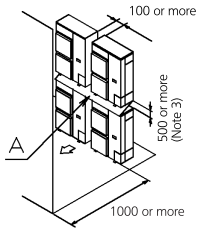
	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

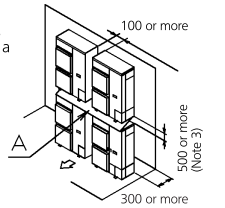


(D) Double-decker installation

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.

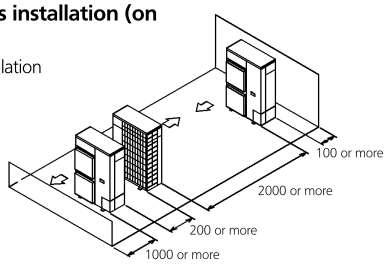


② Obstacle on the suction side. (Note 1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient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

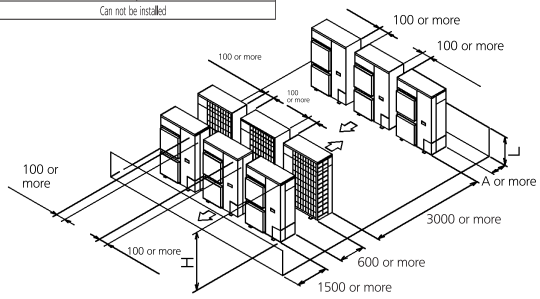
① One row of stand-alone installation



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

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

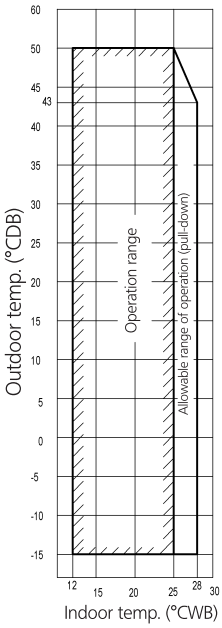
3D069554

13 Operation range

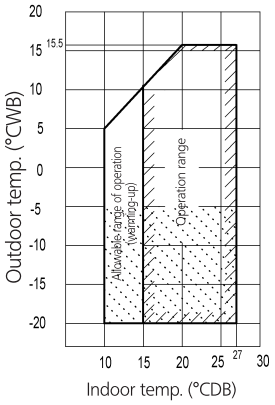
13 - 1 Operation Range

RZQG-L(8)Y1

(Cooling)



(Heating)



Notes:

1 Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).

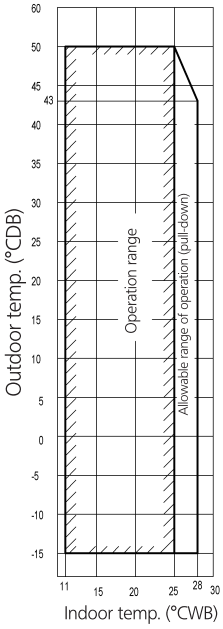
2 To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

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.

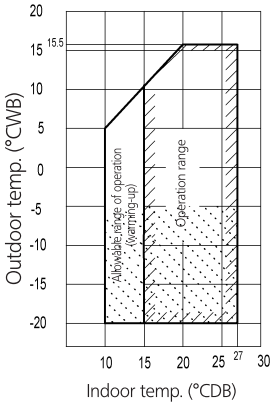
3D076502

RZQG-L(8)Y1 - EDP Room

(Cooling)



(Heating)



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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