DAIKIN

Air Conditioning

Technical Data

Pair, Twin, Triple, double twin

EEDEN16-100

RZQG-L9V1

TABLE OF CONTENTS

RZQG-L9V1

1 Features ... 2

2 Specifications ... 3
Capacity and Power input ... 3
Capacity and Power input ... 3
Capacity and Power input ... 4
Capacity and Power input ... 4
Capacity and Power input ... 5
Capacity and Power input ... 5
Capacity and Power input ... 6
Capacity and Power input ... 6
Capacity and Power input ... 7
Technical Specifications ... 7
Electrical Specifications ... 8

3 Electrical data ... 10

4 Options ... 17

5 Combination table ... 18

6 Capacity tables ... 19
Cooling Capacity Tables ... 19
Cooling/Heating Capacity Tables ... 21
Capacity Correction Factor ... 23

7 Dimensional drawings ... 24

8 Centre of gravity ... 25

9 Piping diagrams ... 27
Piping Diagrams ... 27
Piping Diagram Twin Application ... 28
Piping Diagram Triple Application ... 29
Piping Diagram Double Twin Application ... 30

10 Wiring diagrams ... 31
Wiring Diagrams - Single Phase ... 31

11 Sound data ... 32
Sound Power Spectrum ... 32
Sound Pressure Spectrum - Cooling ... 34
Sound Pressure Spectrum - Heating ... 36
Sound Pressure Spectrum Quiet Mode ... 38

12 Installation ... 40
Installation Method ... 40

13 Operation range ... 42

1 Features

Industry leading technology for commercial applications and even for technical rooms

- Top efficiency: - energy labels up to A++ in both cooling and heating - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load) - via improved nominal performances
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Re-use of existing R-22 or R-407C technology
- Extended operation range down to -20°C in heating and down to -15°C in cooling
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Maximum piping length up to 75m, minimum piping length is 5m.
- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Compatibility with D-BACS
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.

Infrastructure cooling

Inverter

Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input				FBQ71D/ RZQG71L9V1	FBQ100D/ RZQG71L9V1	FBQ100D/ RZQG100L9V1	FBQ140D/ RZQG100L9V1	FBQ125D/ RZQG125L9V1	FBQ140D/ RZQG125L9V1	FBQ140D/ RZQG140L9V1
Indoor unit				FBQ71D	FBQ100D		FBQ140D	FBQ125D	FBQ140D	
Outdoor unit				RZQG71L9V1		RZQG100L9V1		RZQG125L9V1		RZQG140L9V1
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	-	
	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				FCQG71F/ RZQG71L9V1	FCQG100F/ RZQG71L9V1	FCQG100F/ RZQG100L9V1	FCQG140F/ RZQG100L9V1	FCQG125F/ RZQG125L9V1	FCQG140F/ RZQG125L9V1	FCQG140F/ RZQG140L9V1
Indoor unit				FCQG71F	FCQG100F		FCQG140F	FCQG125F	FCQG140F	
Outdoor unit				RZQG71L9V1		RZQG100L9V1		RZQG125L9V1		RZQG140L9V1
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	-	
	Heating	Nom.	kW	1.89	-	2.60	-	3.72	-	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++				A+		-
		Pdesign	kW	6.80		9.50		12.00		-
		SEER		6.80				6.00		-
		Annual energy consumption	kWh	350		489		700		-
	Heating (Average climate)	Energy label		A+		A++		A+		-
		Pdesign	kW	6.33		11.30		12.66		-
		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	-	
	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 Specifications

2-3 Capacity and Power input				FAQ71C/RZQG71L9V1	FAQ100C/RZQG71L9V1	FAQ100C/RZQG100L9V1
Indoor unit				FAQ71C	FAQ100C	
Outdoor unit				RZQG71L9V1		RZQG100L9V1
Cooling capacity	Nom.		kW	6.8	-	9.5
Heating capacity	Nom.		kW	7.5	-	10.8
Power input	Cooling	Nom.	kW	2.00	-	2.63
	Heating	Nom.	kW	2.03	-	3.00
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		
		Pdesign	kW	6.80		9.50
		SEER		6.51		6.11
		Annual energy consumption	kWh	366		545
	Heating (Average climate)	Energy label		A+		
		Pdesign	kW	6.33		10.20
		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

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/ RZQG71L9 V1	FHQ100C/ RZQG71L9 V1	FHQ100C/ RZQG100L 9V1	FHQ140C/ RZQG100L 9V1	FHQ125C/ RZQG125L 9V1	FHQ140C/ RZQG125L 9V1	FHQ71C/ RZQG125L 9V1	FHQ140C/ RZQG140L 9V1
Indoor unit				FHQ71C	FHQ100C		FHQ140C	FHQ125C	FCQG140 F	FHQ71C	FHQ140C
Outdoor unit				RZQG71L9V1		RZQG100L9V1		RZQG125L9V1			RZQG140 L9V1
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	6.80		9.50		12.00			-
		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	7.60		11.30		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	-		
	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 Specifications

2-5 Capacity and Power input				FVQ71C/ RZQG71L9V1	FVQ100C/ RZQG71L9V1	FVQ100C/ RZQG100L9V1	FVQ140C/ RZQG100L9V1	FVQ125C/ RZQG125L9V1	FVQ140C/ RZQG125L9V1	FVQ140C/ RZQG140L9V1
Indoor unit				FVQ71C	FVQ100C		FVQ140C	FVQ125C	FVQ140C	
Outdoor unit				RZQG71L9V1		RZQG100L9V1		RZQG125L9V1		RZQG140L9V1
Cooling capacity	Nom.		kW	6.8	-	9.5	-	12.0	-	13.4
Heating capacity	Nom.		kW	7.5	-	10.8	-	13.5	-	15.5
Power input	Cooling	Nom.	kW	2.02	-	2.49	-	3.74	-	4.17
	Heating	Nom.	kW	2.06	-	2.61	-	3.65	-	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		A+				-
		Pdesign	kW	6.80		9.50		12.00		-
		SEER		6.31		5.61				-
		Annual energy consumption	kWh	378		593		749		-
	Heating (Average climate)	Energy label		A+				A		-
		Pdesign	kW	6.33		11.30				-
		SCOP		4.05		4.20		3.87		-
		Annual energy consumption	kWh	2,189		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				FCQHG71F/ RZQG71L9V1	FCQHG100F/ RZQG71L9V1	FCQHG100F/ RZQG100L9V1	FCQHG140F/ RZQG100L9V1	FCQHG125F/ RZQG125L9V1	FCQHG140F/ RZQG125L9V1	FCQHG140F/ RZQG140L9V1
Indoor unit				FCQHG71F	FCQHG100F		FCQHG140F	FCQHG125F	FCQHG140F	
Outdoor unit				RZQG71L9V1		RZQG100L9V1		RZQG125L9V1		RZQG140L9V1
Cooling capacity	Nom.		kW	6.8	-	9.5	-	12.0	-	13.4
Heating capacity	Nom.		kW	7.5	-	10.8	-	13.5	-	15.5
Power input	Cooling	Nom.	kW	1.66	-	2.15	-	3.00	-	4.00
	Heating	Nom.	kW	1.56	-	2.16	-	3.07	-	3.77
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++						-
		Pdesign	kW	6.80		9.50		12.00		-
		SEER		7.00				6.61		-
		Annual energy consumption	kWh	340		475		636		-
	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	2,344		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	-	
	Energy label	Cooling		A	-	A	-	A	-	
		Heating		A	-	A	-	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

2-7 Capacity and Power input				FDQ125C/RZQG125L9V1
Indoor unit				FDQ125C
Outdoor unit				RZQG125L9V1
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	12.00
		SEER		5.81
		Annual energy consumption	kWh	723
	Heating (Average climate)	Energy label		A+
		Pdesign	kW	12.71
		SCOP		4.21
		Annual energy consumption	kWh	4,227
Ecolabel logo				no
Nominal efficiency	EER			3.75
	COP			3.83
	Annual energy consumption		kWh	1,600
	Energy label	Cooling		A
		Heating		A

Notes

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

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

2-8 Capacity and Power input				FUQ71C/RZQG71L9V1	FUQ100C/RZQG71L9V1	FUQ100C/RZQG100L9V1	FUQ125C/RZQG125L9V1
Indoor unit				FUQ71C	FUQ100C		FUQ125C
Outdoor unit				RZQG71L9V1		RZQG100L9V1	RZQG125L9V1
Cooling capacity	Nom.		kW	6.8	-	9.5	12.0
Heating capacity	Nom.		kW	7.5	-	10.8	13.5
Power input	Cooling	Nom.	kW	1.68	-	2.46	3.54
	Heating	Nom.	kW	1.84	-	2.73	3.95
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++			A+
		Pdesign	kW	6.80		9.50	12.00
		SEER		6.50		6.11	5.61
		Annual energy consumption	kWh	367		545	749
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	7.60		11.30	14.13
		SCOP		4.20		4.50	4.44
		Annual energy consumption	kWh	2,534		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

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/ RZQG71L9V1	FNQ35A/ RZQG100L9V1	FNQ50A/ RZQG100L9V1	FNQ60A/ RZQG125L9V1	FNQ50A/ RZQG125L9V1	FNQ35A/ RZQG125L9V1
Indoor unit					FNQ35A		FNQ50A	FNQ60A	FNQ50A	FNQ35A
Outdoor unit					RZQG71L9V1	RZQG100L9V1		RZQG125L9V1		
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	10.74	11.30	12.71		11.30
		SCOP			3.80					
		Annual energy consumption	kWh		2,211	3,957	4,164	4,683		4,164
Ecolabel logo					no					
Nominal efficiency	EER				-					
	COP				-					
	Annual energy consumption		kWh		-					
	Energy label	Cooling			-					
		Heating			-					

2-10 Technical Specifications					RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1
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	69	95		
	Packed unit			kg	78	104		
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	-			

2 Specifications

2-10 Technical Specifications					RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1
Sound power level	Cooling			dBA	64	66	67	69
	Heating			dBA	-			
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52
	Heating	Nom.		dBA	50	52	53	
	Night quiet mode	Level 1		dBA	43	45		
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			Max.	°CDB	50			
	Heating	Ambient	Min.	°CWB	-20			
			Max.	°CWB	15.5			
Refrigerant	Type				R-410A			
	Charge			kg	2.9	4.0		
				TCO_2eq	6.1	8.4		
	Control				Expansion valve (electronic type)			
	GWP				2,087.5			
	Circuits	Quantity			1			
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD		mm	9.52			
	Gas	Quantity			1			
		Type			Flare connection			
		OD		mm	15.9			
	Drain	Quantity			5			
		Type			Hole			
		ID		mm	-			
		OD		mm	26			
	Piping length	OU - IU	Min.	m	5 (1)			
			Max.	m	50	75		
		System	Equivalent	m	70	90		
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30.0			
		IU - IU	Max.	m	0.5			
	Heat insulation				Both liquid and gas pipes			
Refrigerant oil	Type				FVC50K			
	Charged volume			l	0.9	1.35		
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			

2-11 Electrical Specifications				RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1
Power supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Current - 50Hz	Maximum fuse amps (MFA)		A	25	40		
Current	Zmax	List		Complies to EN61000-3-11			
	Recommended fuses		A	25	40		
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

Minimum Ssc (=Short-circuit power) value: Equipment complying with EN/IEC 61000-3-12: European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current \>16A and ≤ 75A per phase

See separate drawing for electrical data

Contains fluorinated greenhouse gases

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

3 Electrical data

3 - 1 Electrical Data

RZQG71-100L9V1

Indoor		Outdoor	Hz~	Voltage	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQG71L9V1	50Hz 220-240V	Min. 198V Max. 264V	18.2	—	20	—	15.6	0.094	0.4	0.091	0.5
FCQG35FVEB	×2				18.4	—	20	—	15.6	0.094	0.4	0.044×2	0.3×2
FCQG71FVEB					18.1	—	20	—	15.6	0.094	0.4	0.054	0.4
FFQ35C2VEB	×2				18.6	—	20	—	15.6	0.094	0.4	0.050×2	0.4×2
FDXS35F2VEB	×2				18.4	—	20	—	15.6	0.094	0.4	0.034×2	0.3×2
FBQ35C8VEB	×2				20.6	—	25	—	15.6	0.094	0.4	0.140×2	1.2×2
FBQ71C8VEB					19.0	—	20	—	15.6	0.094	0.4	0.350	1.1
FAQ71CVEB					18.1	—	20	—	15.6	0.094	0.4	0.048	0.4
FVQ71CVEB					18.4	—	20	—	15.6	0.094	0.4	0.117	0.6
FHQ35CAVEB	x2				19.1	—	20	—	15.6	0.094	0.4	0,060 x 2	0,6 x 2
FHQ71CAVEB					18.6	—	20	—	15.6	0.094	0.4	0.091	0.8
FUQ71CVEB					18.7	—	20	—	15.6	0.094	0.4	0.046	0.9
FCQHG100FVEB		RZQG100L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.221	1.3
FCQG35FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×3	0.3×3
FCQG50FVEB	×2				28.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×2	0.3×2
FCQG100FVEB					28.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.117	0.7
FFQ35C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FFQ50C2VEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×2	0.4×2
FDXS35F2VEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×3	0.3×3
FDXS50F2VEB9	x2				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06x2	0.5x2
FBQ35C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ50C8VEB	×2				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.140×2	1.2×2
FBQ100C8VEB					29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	1.6
FAQ100CVEB					28.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.064	0.4
FVQ100CVEB					29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3
FHQ50CAVEB	x2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 2	0,6 x 2
FHQ100CAVEB					29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.3
FUQ100CVEB					29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.106	1.3

SYMBOLS

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

NOTES

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

2 TOCA means the total value of each OC set.

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

RZQG125-140L9V1

Indoor		Outdoor	Hz~	Voltage	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG125FVEB		RZQG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG60FVEB	×2				28.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×4	0.4×4
FFQ50B9V1B	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FFQ60B9V1B	×2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×2	0.6×2
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	x3				29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FDXS60F2VEB	×2				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060×2	0.5×2
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FHQ35BWV1B	×4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×4	0.6×4
FHQ50BWV1B	×3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×3	0.6×3
FHQ60BWV1B	×2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×2	0.6×2
FHQG125CVEB					29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.6
FUQ125BWV1B					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.289	1.0
FDQ125C7VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FVQ125CVEB					29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ60CAVEB	x2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0,091 x 2	0,6 x 2
FHQ125CAVEB					29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.5
FUQ125CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.106	1.4
FCQHG71FVEB	×2	RZQG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	x3				29.4	—	33	—	25.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FAQ71CVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FVQ140CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ71CAVEB	x2				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,091 x 2	0,8 x 2
FHQ140CAVEB					29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2				29.8	—	32	—	24.2	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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3 Electrical data

3 - 1 Electrical Data

RZQG-L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	17,2	20	–	15,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L9V1B				28,9	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ35A2VEB	RZQG100L9V1B				28,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L9V1B				29,5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L9V1B				29,2	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L9V1B				29,5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5

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
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

3 - 1 Electrical Data

RZQG71-100L9V1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG100FVEB		RZQG71L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	19,2	–	20	–	15,6	0,094	0,4	0,221	1,3
FCQG35FVEB	x3	RZQG71L9V1B			18,7	–	20	–	15,6	0,094	0,4	0,044 x3	0,3 x3
FCQG50FVEB	x2	RZQG71L9V1B			18,4	–	20	–	15,6	0,094	0,4	0,039 x2	0,3 x2
FCQG100FVEB		RZQG71L9V1B			18,5	–	20	–	15,6	0,094	0,4	0,117	0,7
FFQ35C2VEB	x3	RZQG71L9V1B			19,1	–	20	–	15,6	0,094	0,4	0,050 x3	0,4 x3
FFQ50C2VEB	x2	RZQG71L9V1B			18,6	–	20	–	15,6	0,094	0,4	0,050 x2	0,4 x2
FBQ35D2VEB	x3	RZQG71L9V1B			19,9	–	25	–	15,6	0,094	0,4	0,089 x3	0,6 x3
FBQ50D2VEB	x2	RZQG71L9V1B			19,1	–	20	–	15,6	0,094	0,4	0,089 x2	0,6 x2
FBQ100D2VEB		RZQG71L9V1B			18,9	–	20	–	15,6	0,094	0,4	0,127	1,0
FHQ35CAVEB	x3	RZQG71L9V1B			19,9	–	25	–	15,6	0,094	0,4	0,060 x3	0,6 x3
FHQ50CAVEB	x2	RZQG71L9V1B			19,1	–	20	–	15,6	0,094	0,4	0,060 x2	0,6 x2
FHQ100CAVEB		RZQG71L9V1B			19,2	–	20	–	15,6	0,094	0,4	0,150	1,3
FUQ100CVEB		RZQG71L9V1B			19,2	–	20	–	15,6	0,094	0,4	0,106	1,3
FAQ100CVEB		RZQG71L9V1B			18,1	–	20	–	15,6	0,094	0,4	0,064	0,4
FVQ100CVEB		RZQG71L9V1B			19,1	–	20	–	15,6	0,094	0,4	0,238	1,2
FDXS35F2VEB	x3	RZQG71L9V1B			18,7	–	20	–	15,6	0,094	0,4	0,034 x3	0,3 x3
FDXS50F2VEB9	x2	RZQG71L9V1B			18,9	–	20	–	15,6	0,094	0,4	0,060 x2	0,5 x2
FCQHG71FVEB	x2	RZQG100L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG100L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG100L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG100L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG100L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG100L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG100L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG100L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG100L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG100L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG100L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG100L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG100L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG100L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG100L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG100L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG100L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG100L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG100L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG100L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG100L9V1B			29,4	–	32	–	24,2	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

RZQG71-125L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	16,4	20	51	15,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L9V1B				17,1	20	–	15,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L9V1B				28,9	32	49	24,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L9V1B				29,1	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6
3xFBQ35D2VEB	RZQG100L9V1B				29,7	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L9V1B				29,5	32	64	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ60D2VEB	RZQG125L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.070	2x0.5
3xFBQ50D2VEB	RZQG125L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6

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

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RZQG125-140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFBQ35D2VEB	RZQG125L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L9V1B				29,5	32	68	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L9V1B				30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

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
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

3D094863B

3 Electrical data

3 - 1 Electrical Data

RZQG125-140L9V1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB	x2	RZQG125L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG125L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG125L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG125L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG125L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG125L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG125L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG125L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG125L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG125L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG125L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG125L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG125L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG125L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3
FCQHG71FVEB	x2	RZQG140L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG140L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG140L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG140L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG140L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG140L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG140L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG140L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG140L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG140L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG140L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG140L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG140L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG140L9V1B			29,4	–	32	–	24,2	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

RZQG140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFNQ35A2VEB	RZQG140L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	29,2	32	–	24,2	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
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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4 Options

4 - 1 Options

RZQG-L9V1

Available options for RZQG models

Option		Option kit			
		RZQG71L9V1B	RZQG100L9V1B	RZQG125L9V1B	RZQG140L9V1B
Bottom plate heater		EKBPH140L7			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	KHRQ127H		
	Double twin	-	-	KHRQ22M20TA (3x)	
Demand adaptor kit		SB.KRP58M51			

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5 Combination table

5 - 1 Combination Table

RZQG-L9V1
RZQG-L(8)Y1

Possible combinations	71	100	125	140
P= Pair				
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	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35C8VEB	FBQ50C8VEB	FBQ60C8VEB	FBQ71C8VEB	FBQ100C8VEB	FBQ125C8VEB	FBQ140C8VEB	FHQ35BVV1B8	FHQ50BVV1B8	FHQ60BVV1B8	FHQG71CVEB	FHQG100CVEB	FHQG125CVEB	FHQG140CVEB	FUQ71CVEB	FUQ100CVEB	FUQ125CVEB	FAQ71CVEB	FAQ100CVEB	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB	FDXS50F2VEB9	FDXS60F2VEB
RZQG71L9V1B	RZQG71L8Y1B	P				2			P				2			2			P				2			P				P			P			P				2		
RZQG100L9V1B	RZQG100L8Y1B		P			3	2			P			3	2		3	2			P			3	2			P				P			P			P			3	2	
RZQG125L9V1B	RZQG125L8Y1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P				P			P			P		4	3	2
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2							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			P					2		
RZQG100L9V1B	RZQG100L8Y1B	3	2			P				3	2	
RZQG125L9V1B	RZQG125L8Y1B	4	3	2			P			4	3	2
RZQG140L9V1B	RZQG140L7Y1B	4	3		2			P		4	3	

Notes

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

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

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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	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FFQ35C2VEB	FFQ50C2VEB	FFQ60C2VEB	FBQ35D2VEB	FBQ50D2VEB	FBQ60D2VEB	FBQ71D2VEB	FBQ100D2VEB	FBQ125D2VEB	FBQ140D2VEB	FHQ35CAVEB	FHQ50CAVEB	FHQ60CAVEB	FHQ71CAVEB	FHQ100CAVEB	FHQ125CAVEB	FHQ140CAVEB	FUQ71CVEB	FUQ 100CVEB	FUQ 125CVEB	FAQ71CVEB	FAQ100CVEB	FDQ125C7VEB	FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB	FDXS35F2VEB	FDXS50F2VEB9	FDXS60F2VEB	RNQ35A2VEB	RNQ50A2VEB
RZQG71L9V1B	RZQG71L8Y1B		P			3	2			P			3	2		3	2			P			3	2			P				P			P			P			3	2			
RZQG100L9V1B	RZQG100L8Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3			
RZQG125L9V1B	RZQG125L8Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3			
RZQG140L9V1B	RZQG140L7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			P	2			2						P	4	3			

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

Notes

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

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

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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG71L9V1
RZQG71L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	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	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
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	5.90	5.25	0.98	5.85	5.22	1.09	5.80	5.20	1.19	5.76	5.17	1.30
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	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
57	13		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	0.64	7.49	5.89	0.99	7.23	5.75	1.10	6.96	5.61	1.20	6.70	5.47	1.31
31.4	11		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	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
44.9	13	20	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	0.64	7.49	7.00	0.99	7.23	6.81	1.10	6.96	6.60	1.20	6.70	6.37	1.31
52	14		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	0.72	8.15	6.56	0.99	7.74	6.36	1.10	7.34	6.15	1.20	6.93	5.93	1.31
22.9	11		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	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
34.8	13	22	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	0.64	7.49	7.49	0.99	7.23	7.23	1.10	6.96	6.96	1.20	6.70	6.70	1.31
47.6	15		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	0.79	8.41	7.00	1.00	7.99	6.80	1.11	7.58	6.60	1.21	7.16	6.37	1.32
54.3	16		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	0.87	8.68	6.54	1.00	8.25	6.35	1.11	7.83	6.14	1.21	7.40	5.92	1.32
21.2	12		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	0.56	6.70	6.70	0.99	6.54	6.54	1.10	6.38	6.38	1.20	6.23	6.23	1.31
32.1	14	24	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	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
43.8	16		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	0.87	8.68	7.45	1.00	8.25	7.26	1.11	7.83	7.04	1.21	7.40	6.82	1.32
50	17		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	0.88	8.96	6.99	1.00	8.53	6.80	1.11	8.09	6.59	1.21	7.66	6.37	1.32
21.5	14		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	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
26.3	15	27	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	0.79	8.41	8.41	1.00	7.99	7.99	1.11	7.58	7.58	1.21	7.16	7.16	1.32
31.3	16		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	0.87	8.68	8.68	1.00	8.25	8.25	1.11	7.83	7.83	1.21	7.40	7.40	1.32

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 [%]

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

Pair

	FCQHG100F	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

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RZQG100L9V1
RZQG100L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	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	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
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	8.36	7.11	1.00	7.92	6.83	1.10	7.48	6.53	1.20	7.09	6.28	1.29
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	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.43	1.20	7.09	7.15	1.29
57	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	9.71	7.67	1.00	9.30	7.42	1.11	8.90	7.16	1.21	8.45	6.88	1.30
31.4	11		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	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
44.9	13	20	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	9.71	8.53	1.00	9.30	8.28	1.11	8.90	8.01	1.21	8.45	7.74	1.30
52	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	10.50	8.45	1.01	10.23	8.31	1.11	9.96	8.17	1.21	9.68	7.94	1.31
22.9	11		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	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
34.8	13	22	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	9.71	9.71	1.00	9.30	9.30	1.11	8.90	8.90	1.21	8.45	8.45	1.30
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	11.28	9.19	1.01	10.89	8.96	1.11	10.51	8.72	1.22	10.12	8.48	1.32
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	11.84	8.40	1.01	11.40	8.22	1.11	11.03	8.04	1.22	10.58	7.77	1.32
21.2	12		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	9.04	9.04	1.00	8.61	8.61	1.10	8.19	8.19	1.21	7.77	7.77	1.30
32.1	14	24	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	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
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	11.84	9.74	1.01	11.40	9.51	1.12	11.03	9.32	1.22	10.58	9.06	1.32
50	17		9.98	7.86	0.58	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	12.39	9.45	1.02	11.86	9.16	1.12	11.33	8.86	1.22	10.80	8.52	1.33
21.5	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	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
26.3	15	27	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	11.28	11.28	1.01	10.89	10.89	1.11	10.51	10.51	1.22	10.12	10.12	1.32
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	11.84	11.84	1.01	11.40	11.40	1.12	11.03	11.03	1.22	10.58	10.58	1.32

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 [%]

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

Pair

	FCQHG140F	FCQG140F	FVQ140C	FHQ140C	FBQ140D
Cooling	2,15	2,45	2,49	2,49	2,49

Twin

	FCQHG71Fx2	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

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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQG125L9V1
RZQG125L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	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	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	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	10.25	8.55	0.98	9.71	8.21	1.08	9.17	7.86	1.18	8.69	7.55	1.27
41.8	11	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	10.25	9.60	0.98	9.71	9.28	1.08	9.17	8.94	1.18	8.69	8.60	1.27
57	13		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	11.91	9.22	0.99	11.41	8.92	1.09	10.91	8.61	1.19	10.37	8.28	1.28
31.4	11	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	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
44.9	13		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	11.91	10.27	0.99	11.41	9.96	1.09	10.91	9.64	1.19	10.37	9.31	1.28
52	14		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	12.88	10.16	0.99	12.54	10.00	1.09	12.21	9.83	1.19	11.87	9.55	1.29
22.9	11	22	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	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
34.8	13		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	11.91	11.91	0.99	11.41	11.41	1.09	10.91	10.91	1.19	10.37	10.37	1.28
47.6	15		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	13.83	11.06	0.99	13.36	10.78	1.09	12.88	10.49	1.20	12.41	10.20	1.29
54.3	16		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	14.51	10.10	1.00	13.98	9.89	1.10	13.52	9.67	1.20	12.98	9.35	1.30
21.2	12	24	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	11.08	11.08	0.98	10.56	10.56	1.08	10.04	10.04	1.19	9.53	9.53	1.27
32.1	14		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	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
43.8	16		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	14.51	11.71	1.00	13.98	11.44	1.10	13.52	11.21	1.20	12.98	10.90	1.30
50	17		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	15.20	11.36	1.00	14.54	11.02	1.10	13.89	10.66	1.20	13.24	10.25	1.31
21.5	14	27	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	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
26.3	15		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	13.83	13.83	0.99	13.36	13.36	1.09	12.88	12.88	1.20	12.41	12.41	1.29
31.3	16		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	14.51	14.51	1.00	13.98	13.98	1.10	13.52	13.52	1.20	12.98	12.98	1.30

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 [%]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
3. For EDP applications, it is recommended to use remote controller setting 16(26)-2-03.
4. CPI is a percentage value compared to the rated value which is 1.00.
5. The error rate for this value is less than 5% and depends on the indoor unit type.
6. 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

	FCQHG71F+2	FCQG71F X 2	FHQ71C X 2	FUQ71C x 2	FAQ71C x 2	FBQ71D 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	FDXS50F9 X 3	FBQ50D X 3
Cooling	3,17	3,66	3,23	3,45	3,97

Double twin

	FCQG25F X 4	FHQ35C X 4	FFQ35C X 4	FDXS25F X 4	FBQ25D x 4
Cooling	3,23	3,64	3,01	3,94	3,74

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RZQG140L9V1
RZQG140L8Y1

Performance characteristics for EDP room

Cooling

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	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	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	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	10.95	8.87	0.96	10.37	8.51	1.06	9.79	8.15	1.16	9.28	7.83	1.25
41.8	11	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	0.38	10.95	9.96	0.96	10.37	9.62	1.06	9.79	9.27	1.16	9.28	8.92	1.25
57	13		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	12.72	9.56	0.97	12.18	9.25	1.07	11.65	8.93	1.17	11.07	8.58	1.26
31.4	11	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	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
44.9	13		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	12.72	10.64	0.97	12.18	10.33	1.07	11.65	10.00	1.17	11.07	9.65	1.26
52	14		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	0.47	11.30	9.26	0.47	13.75	10.53	0.97	13.40	10.36	1.07	13.04	10.19	1.17	12.68	9.90	1.27
22.9	11	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	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
34.8	13		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	12.72	12.72	0.97	12.18	12.18	1.07	11.65	11.65	1.17	11.07	11.07	1.26
47.6	15		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	14.77	11.47	0.98	14.26	11.18	1.08	13.76	10.88	1.18	13.25	10.57	1.27
54.3	16		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	0.54	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
21.2	12	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	11.83	11.83	0.97	11.28	11.28	1.07	10.72	10.72	1.17	10.17	10.17	1.25
32.1	14		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	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
43.8	16		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	0.54	15.50	12.14	0.98	14.93	11.86	1.08	14.44	11.62	1.18	13.86	11.30	1.28
50	17		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	16.23	11.78	0.98	15.53	11.43	1.08	14.83	11.06	1.18	14.14	10.63	1.29
21.5	14	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	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
26.3	15		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	14.77	14.77	0.98	14.26	14.26	1.08	13.76	13.76	1.18	13.25	13.25	1.27
31.3	16		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	0.54	15.50	15.50	0.98	14.93	14.93	1.08	14.44	14.44	1.18	13.86	13.86	1.28

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

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 [%]

Pair

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

Twin

	FCQHG71F+2	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

	FCQG25F X 4	FHQ35C X 4	FFQ35C X 4	FDXS25F X 4	FBQ35D x 4
Cooling	4,18	4,23	3,83	5,38	3,75

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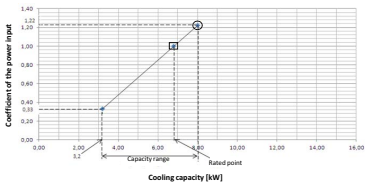
6 Capacity tables

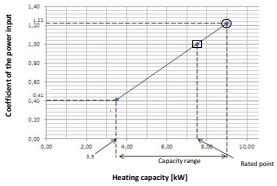
6 - 2 Cooling/Heating Capacity Tables

RZQG71L9V1
RZQG71L8Y1

Cooling



Heating



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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°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

Heating

Indoor	Outdoor temperature [°C WB]											
	−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	1.29
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. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ◯ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. SHC is based on indoor units EWB & EDB.
   SHC for other dry-bulb temperatures = SHC + SHC*
   SHC* = SHC correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: 85% RH
   However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
   Corresponding refrigerant piping length: 5.0 m
   Level difference: 0m
5. CPI is a percentage value compared to the rated value which is 1.00.
6. The error rate for this value is less than 5% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CA	FUQ71C	FBQ71D
AFR	21.2	21.5	18.0	20.5	18.0	18.0	20.5	23.0	18.0
(BF)	(0.2)	(0.14)	(0.08)	(0.13)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)

Twin

	FCQG35F X 2	FBQ35C X 2	FHQ35CA X 2	FFQ35C X 2	FDXS35F X 2	FBQ35D X 2	FNQ35A X 2
AFR	12.5 x 2	16 x2	14 x 2	10 x 2	8,7 x 2	15 x 2	8,7 x 2
(BF)	(0.4 x 2)	(0.15 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Pair

	FCQHG71F	FCQG71F	FBQ71C	FHQG71C	FAQ71C	FVQ71C	FHQ71CA	FUQ71C	FBQ71D
Cooling	1,66	2,01	1,94	1,78	2,00	2,02	1,78	1,67	1,89
Heating	1,56	1,89	2,05	1,82	2,03	2,06	1,82	1,68	1,87

Twin

	FCQG35F X 2	FBQ35C X 2	FHQ35CA X 2	FFQ35C X 2	FDXS35F x 2	FBQ35D X 2	FNQ35A X 2
Cooling	2,04	1,98	2,34	2,02	2,23	2,01	2,23
Heating	1,92	2,16	2,70	1,88	2,55	2,08	2,55

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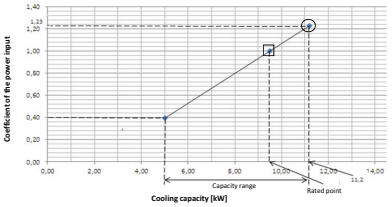
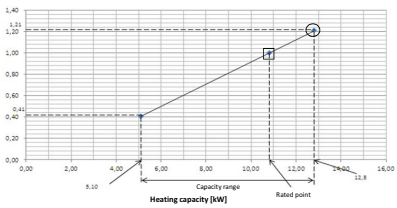
Cooling



Heating



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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	11,20	7,61	1,01	10,85	7,44	1,11	10,50	7,29	1,22	10,11	7,09	1,32
18,0	25	11,80	7,59	1,01	11,37	7,49	1,12	11,00	7,27	1,23	10,55	7,09	1,33
19,0	27	12,00	7,57	1,02	11,62	7,44	1,12	**11,20**	**7,26**	**1,23**	10,80	7,04	1,33
19,5	27	12,15	7,59	1,02	11,74	7,37	1,13	11,43	7,34	1,23	10,91	7,04	1,34
22,0	30	12,80	7,52	1,02	12,37	7,36	1,13	11,90	7,16	1,24	11,52	7,03	1,35
24,0	32	13,30	7,42	1,03	12,88	7,27	1,14	12,40	7,06	1,25	11,97	6,91	1,36

Heating

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

Pair

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CA	FUQ100C	FBQ100D
AFR	32.3	32.0	32.0	20.0	26.0	28.0	28.0	31.0	29.0
(BF)	(0.17)	(0.17)	(0.13)	(0.09)	(0.10)	(0.20)	(0.09)	(0.20)	(0.03)

Twin

	FCQG50F X 2	FBQ50C X 2	FHQ50CA X 2	FFQ50C X 2	FDXS50F9 X 2	FBQ50D X 2	FNQ50A X 2
AFR	12.6 x 2	16 x2	15 x 2	12 x 2	16 x 2	15 x 3	16 x 2
(BF)	(0.22 x 2)	(0.16 x 2)	(0.18 x 2)	(0.16 x 2)	(0.11 x 2)	(0.13 x 2)	(0.11 x 2)

Triple

	FCQG35F X 3	FBQ35C X 3	FHQ35CA X 3	FFQ35C X 3	FDXS35F X 3	FBQ35D x 3	FNQ35A X 3
AFR	12.5 x 3	16 x3	14 x 3	10 x 3	8.7 x 3	15 x 3	8.7 x 3
(BF)	(0.4 x 3)	(0.15 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.08 x 3)	(0.17 x 3)

Pair

	FCQHG100F	FCQG100F	FBQ100C	FHQG100C	FAQ100C	FVQ100C	FHQ100CA	FUQ100C	FBQ100D
Cooling	2,15	2,45	2,44	2,49	2,63	2,49	2,49	2,33	2,49
Heating	2,16	2,60	2,57	2,60	3,00	2,61	2,60	2,62	2,45

Twin

	FCQG50F X 2	FBQ50C X 2	FHQ50CA X 2	FFQ50C X 2	FDXS50F9 X 2	FBQ50D X 2	FNQ50A X 2
Cooling	2,32	2,51	2,93	2,65	2,51	2,87	2,51
Heating	2,46	2,86	3,28	2,89	2,96	2,73	2,96

Triple

	FCQG35F X 3	FBQ35C X 3	FHQ35CA X 3	FFQ35C X 3	FDXS35F X 3	FBQ35D x 3	FNQ35A X 3
Cooling	2,38	2,51	2,91	2,45	2,81	2,68	2,81
Heating	2,51	2,86	3,20	2,59	3,68	2,70	3,68

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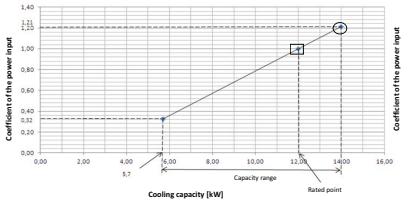
6 Capacity tables

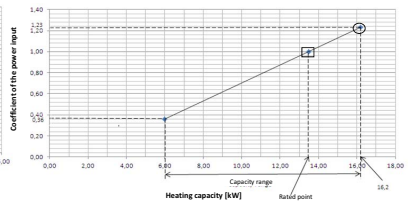
6 - 2 Cooling/Heating Capacity Tables

RZQG125L9V1
RZQG125L8Y1

Cooling



Heating



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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	14,10	9,54	1,00	13,60	9,30	1,10	13,10	9,12	1,20	12,60	8,78	1,31
18,0	25	14,70	9,50	1,00	14,20	9,32	1,10	13,70	9,09	1,21	13,20	8,83	1,32
19,0	27	15,00	9,52	1,01	14,50	9,34	1,11	**14,00**	**9,06**	**1,21**	13,50	8,87	1,32
19,5	27	15,21	9,52	1,01	14,68	9,26	1,12	14,15	9,08	1,21	13,64	8,81	1,32
22,0	30	16,00	9,39	1,01	15,47	9,14	1,12	14,90	8,95	1,23	14,38	8,74	1,33
24,0	32	16,70	9,31	1,02	16,10	9,09	1,13	15,50	8,83	1,24	14,97	8,63	1,34

Heating

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

Pair

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CA	FUQ125C	FBQ125D
AFR	33.5	33.0	39.0	31.0	39.0	28.0	31.0	32.5	34.0
(BF)	(0.19)	(0.21)	(0.16)	(0.134)	(0.16)	(0.16)	(0.14)	(0.19)	(0.06)

Twin

	FCQG60F X 2	FBQ60C X 2	FHQ60CA X 2	FFQ60C X 2	FDXS60F X 2	FBQ60D X 2	FNQ60A X 2
AFR	13.6 x 2	18 x 2	19.5 x 2	14.5 x 2	16 x 2	18 x 2	16 x 2
(BF)	(0.2 x 2)	(0.15 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.18 x 2)	(0.12 x 2)

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CA X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
AFR	12.6 x 3	16 x3	15 x 3	12 x 3	16 x 3	15 x 3	16 x 3
(BF)	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CA X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
AFR	12.5 x 4	16 x4	14 x 4	10 x 4	8.7 x 4	15 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.15 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCQHG125F	FCQG125F	FBQ125C	FHQG125C	FDQ125C	FVQ125C	FHQ125CA	FUQ125C	FBQ125D
Cooling	3,00	3,22	3,15	3,58	3,20	3,74	3,58	3,44	3,63
Heating	3,07	3,72	3,53	3,48	3,53	3,65	3,48	3,86	3,46

Twin

	FCQG60F X 2	FBQ60C X 2	FHQ60CA X 2	FFQ60C X 2	FDXS60F X 2	FBQ60D X 2	FNQ60A X 2
Cooling	3,14	3,28	3,67	3,61	3,75	4,10	3,75
Heating	3,64	3,74	4,11	4,10	4,20	3,85	4,20

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CA X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
Cooling	3,17	3,28	3,66	3,23	3,45	3,97	3,45
Heating	3,66	3,74	4,10	3,55	3,61	3,81	3,61

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CA X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
Cooling	3,23	3,28	3,64	3,01	3,94	3,74	3,94
Heating	3,72	3,74	4,00	3,30	4,45	3,78	4,45

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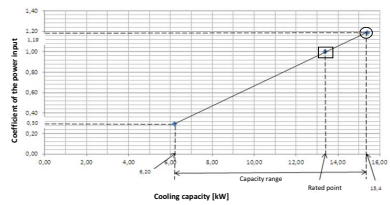
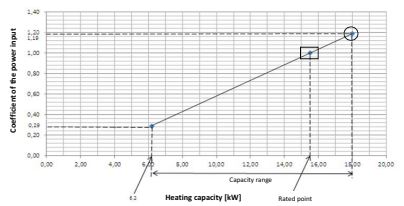
RZQG140LY1

Cooling



Heating



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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	15,50	10,47	0,98	14,93	10,25	1,08	14,44	10,03	1,18	13,86	9,69	1,28
18,0	25	16,17	10,55	0,98	15,62	10,21	1,09	15,11	10,01	1,19	14,52	9,71	1,30
19,0	27	16,56	10,43	0,99	15,96	10,18	1,09	**15,40**	**9,98**	**1,19**	14,83	9,76	1,30
19,5	27	16,74	10,49	0,99	16,14	10,16	1,10	15,57	10,00	1,19	14,98	9,66	1,30
22,0	30	17,61	10,37	0,99	17,01	10,16	1,10	16,36	9,83	1,21	15,76	9,60	1,31
24,0	32	18,38	10,20	1,00	17,72	10,00	1,11	17,04	9,67	1,22	16,43	9,47	1,32

Heating

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

Pair

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA	FBQ140D
AFR	33.5	33.0	39:C/41:H	34.0	30.0	34.0	34.0
(BF)	(0.15)	(0.23)	(0.14)	(0.17)	(0.18)	(0.17)	(0.06)

Twin

	FCQHG71F X 2	FCQG71F X 2	FBQ71C X 2	FHQG71C X 2	FAQ71C X 2	FHQ71CA X 2	FUQ71C X 2	FBQ71D X 2
AFR	21.2 x 2	21.5 x 2	18.0 x 2	20.5 x 2	18.0 x 2	20.5 x 2	23.0 x 2	18.0 x 2
(BF)	(0.2 x2)	(0.14 x 2)	(0.08 x2)	(0.13 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x2)	(0.13 x2)

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CA X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
AFR	12.6 x 3	16 x3	15 x 3	12 x 3	16 x 3	15 x 3	16 x 3
(BF)	(0.22 x 3)	(0.16 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CA X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
AFR	12.5 x 4	16 x4	14 x 4	10 x 4	8.7 x 4	15 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.15 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCQHG140F	FCQG140F	FBQ140C	FHQG140C	FVQ140C	FHQ140CA	FBQ140D
Cooling	4,00	4,17	4,02	4,05	4,17	4,05	4,00
Heating	3,77	4,30	4,30	4,27	4,30	4,27	4,31

Twin

	FCQHG71F X 2	FCQG71F X 2	FBQ71C X 2	FHQG71C X 2	FAQ71C X 2	FHQ71CA X 2	FUQ71C X 2	FBQ71D X 2
Cooling	3,94	4,11	3,75	3,59	3,81	3,59	3,35	3,75
Heating	3,71	4,24	4,70	4,47	4,68	4,47	4,36	4,70

Triple

	FCQG50F X 3	FBQ50C X 3	FHQ50CA X 3	FFQ50C X 3	FDXS50F9 X 3	FBQ50D X 3	FNQ50A X 3
Cooling	4,12	3,75	4,25	4,15	4,26	3,75	4,26
Heating	4,24	4,70	5,43	4,15	4,37	4,70	4,37

Double twin

	FCQG35F X 4	FBQ35C X 4	FHQ35CA X 4	FFQ35C X 4	FDXS35F X 4	FBQ35D X 4	FNQ35A X 4
Cooling	4,18	3,75	4,23	3,83	5,38	3,75	5,38
Heating	4,30	4,70	5,33	3,81	5,85	4,70	5,85

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6 Capacity tables

6 - 3 Capacity Correction Factor

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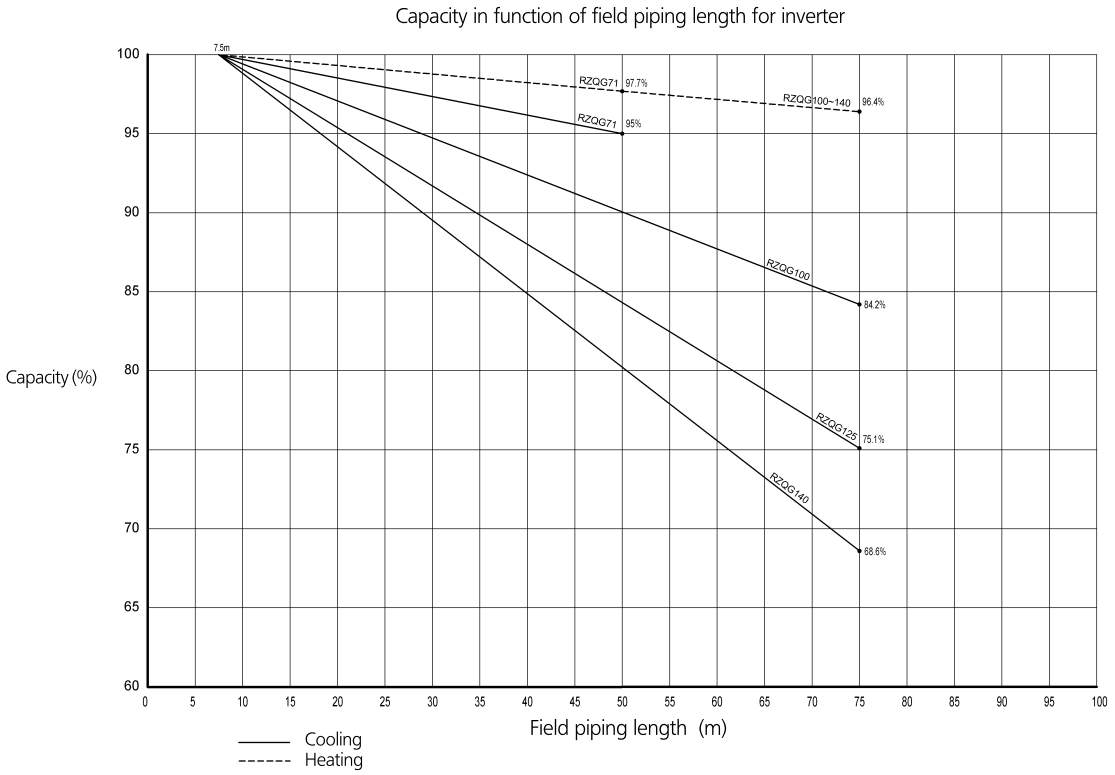

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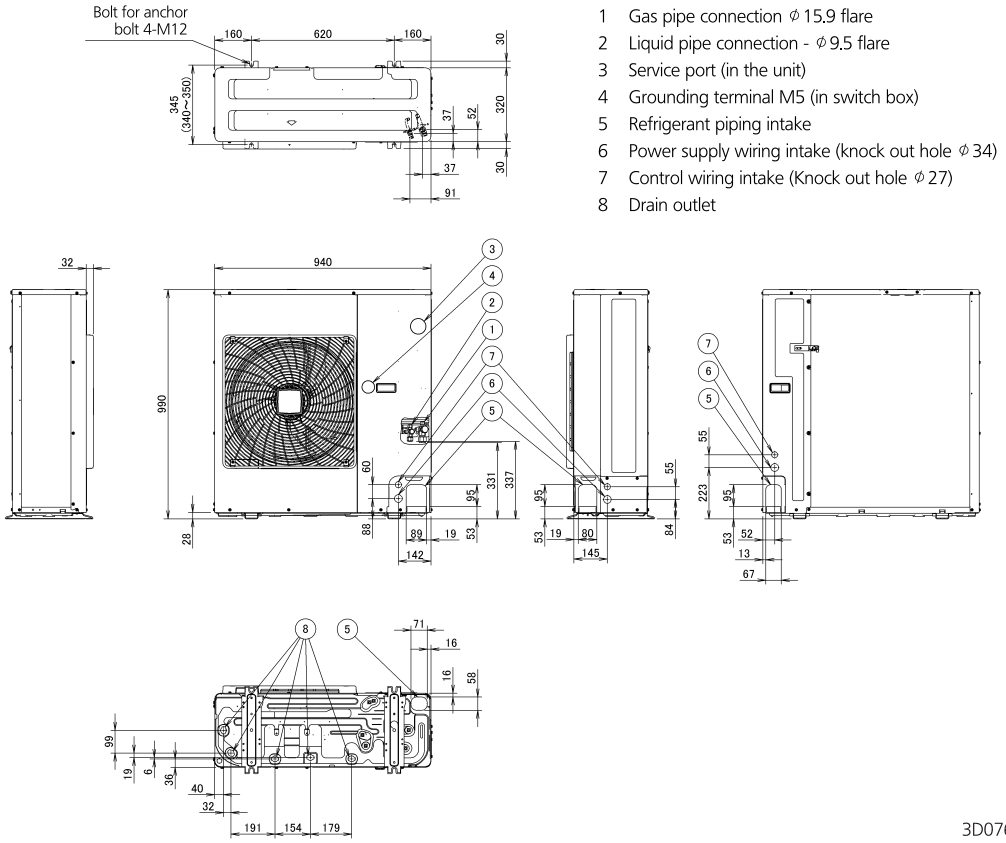
7 Dimensional drawings

7 - 1 Dimensional Drawings

RZQG71L9V1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 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 ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

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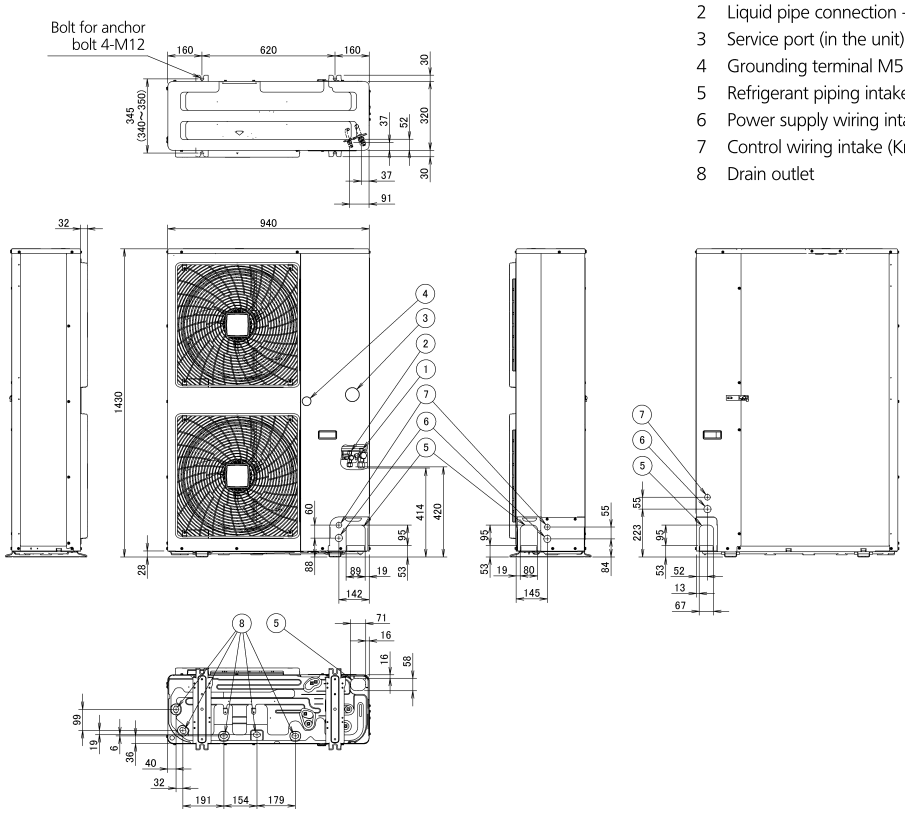
RZQG100-140L9V1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 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 ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

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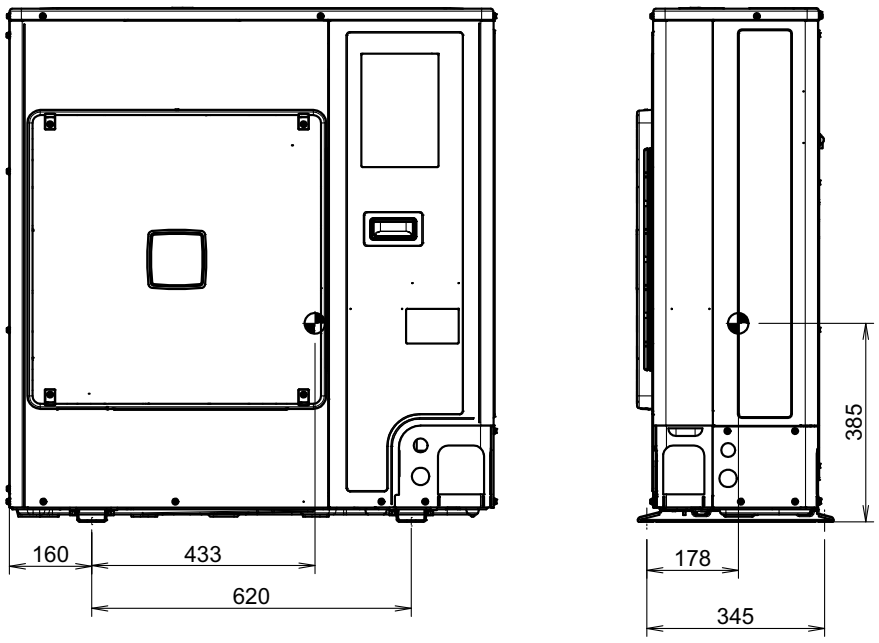
8 Centre of gravity

8 - 1 Centre of Gravity

RZQG71L9V1



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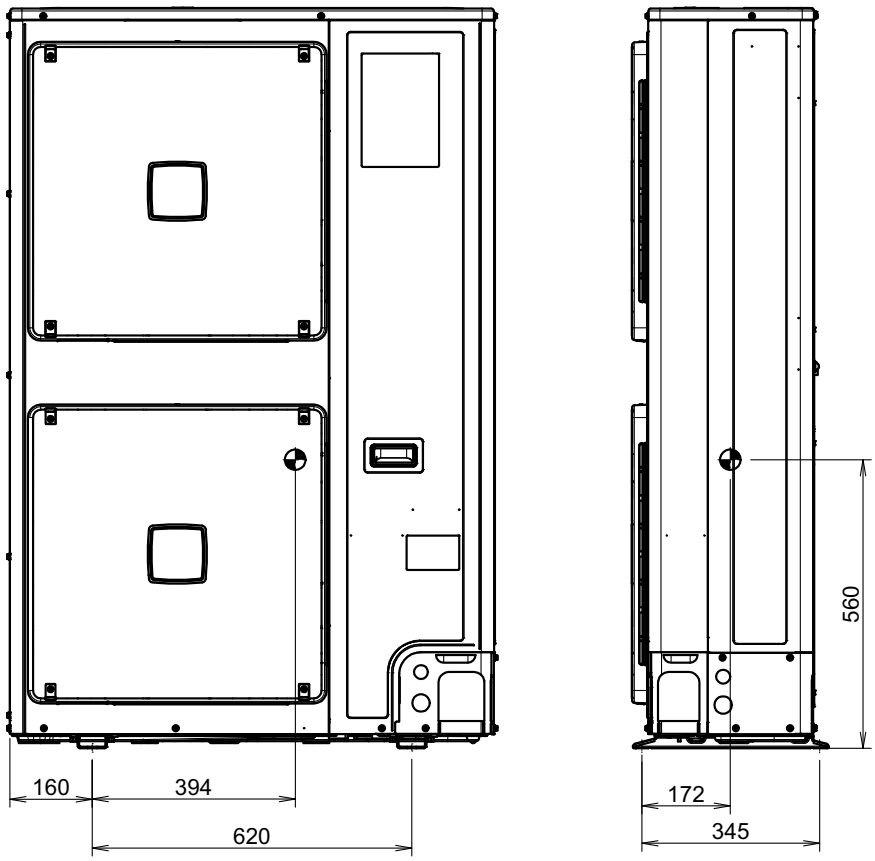
8 Centre of gravity

8 - 1 Centre of Gravity

RZQG100-140L9V1



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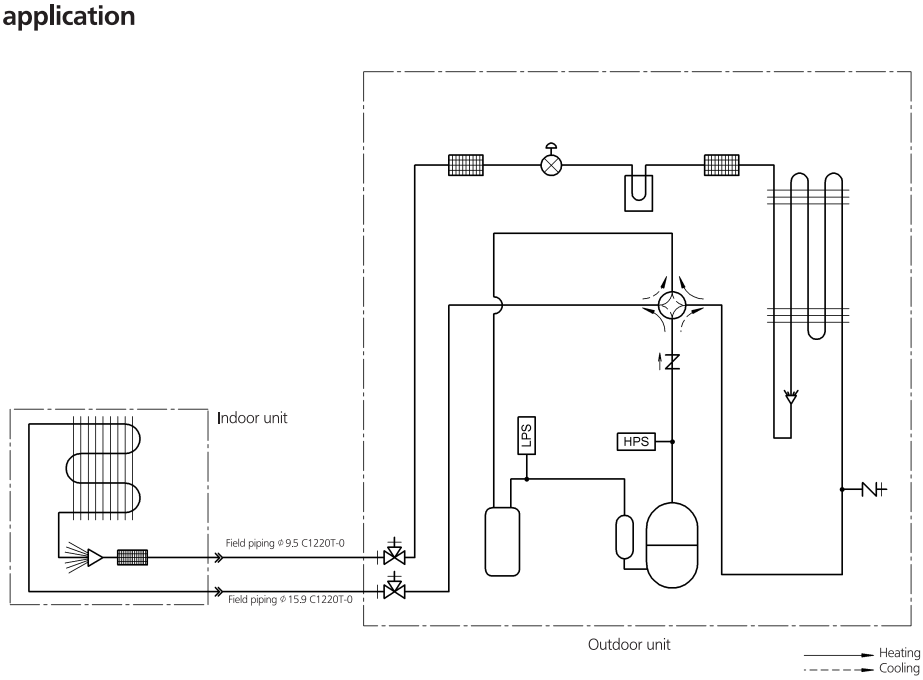
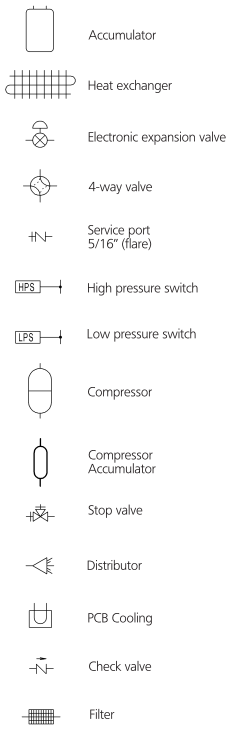
9 Piping diagrams

9 - 1 Piping Diagrams

RZQG-L9V1
Pair application





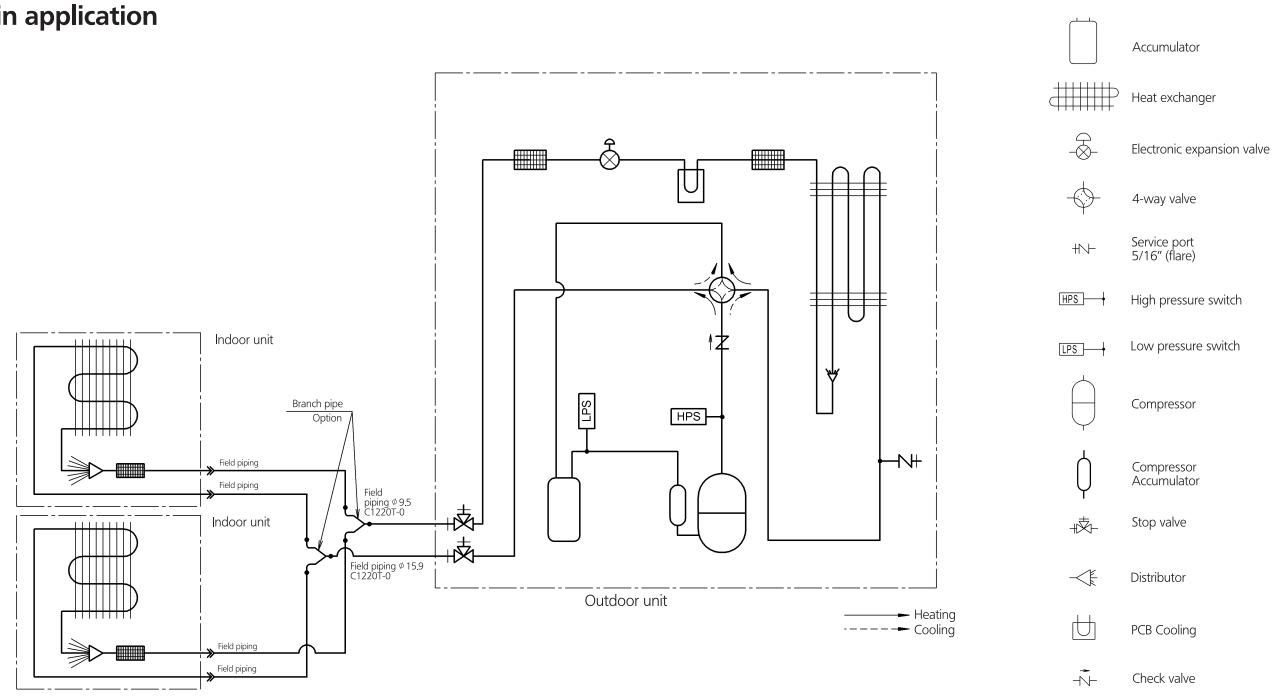
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQG71L, RZQSG100L and RZQSG125L.

3D090340

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZQG-L9V1
Twin application



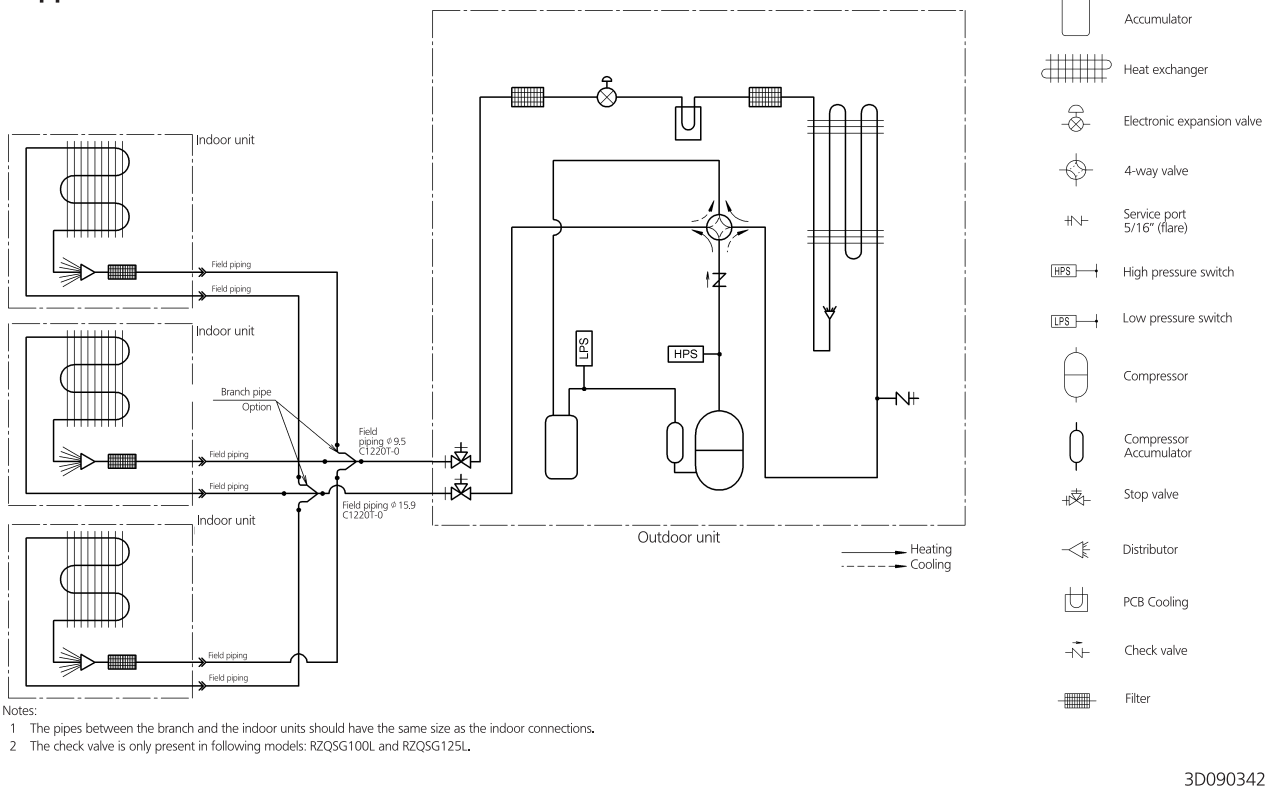
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQG71L, RZQSG100L and RZQSG125L.

3D090341

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZQG100-140L9V1
Triple application



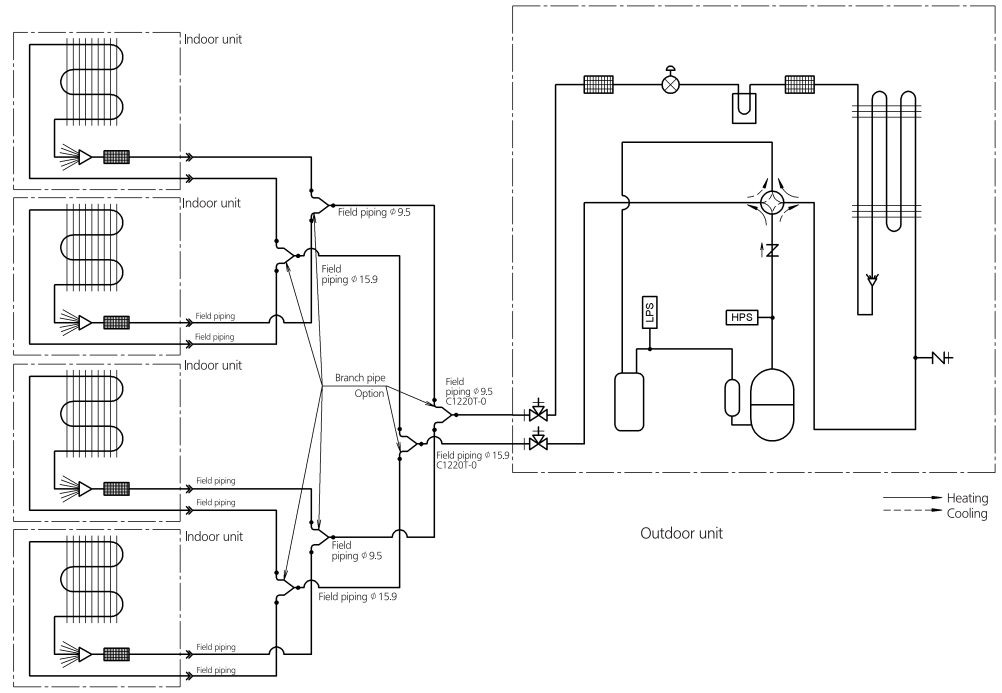
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

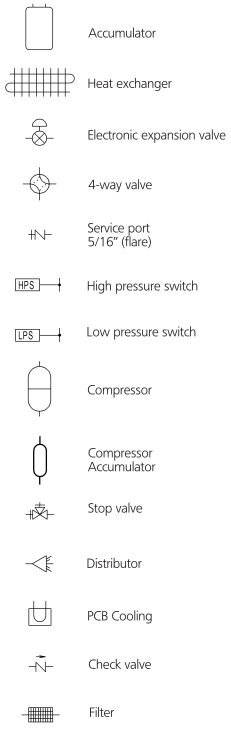
3D090342

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZQG125-140L9V1
Double twin application





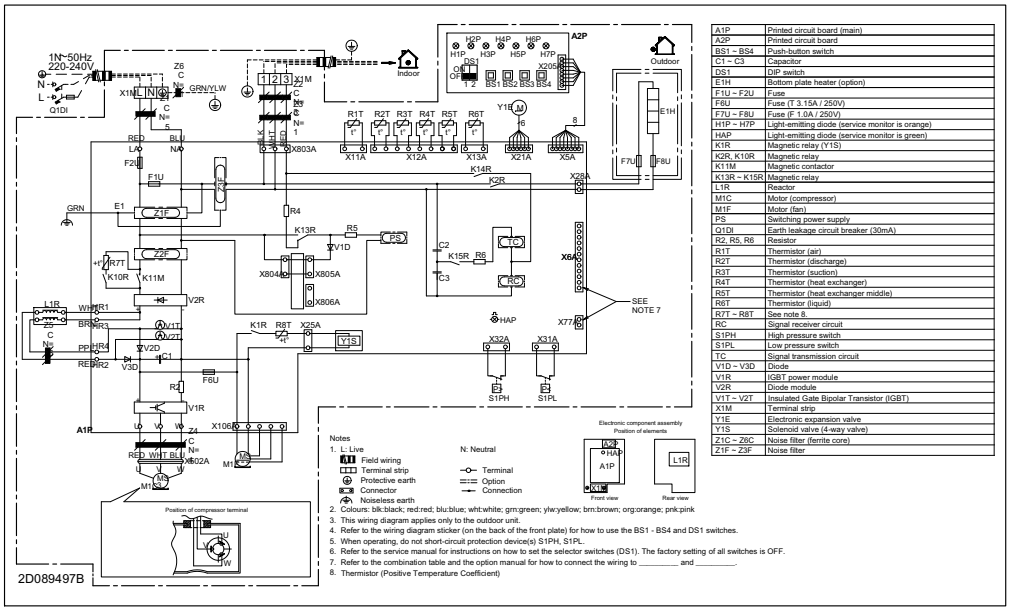
Notes:
1 The pipes between the branch and the indoor units should have the same size as the indoor connections.
2 The check valve is only present in following models: RZQSG100L and RZQSG125L.

3D090343

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZQG71L9V1

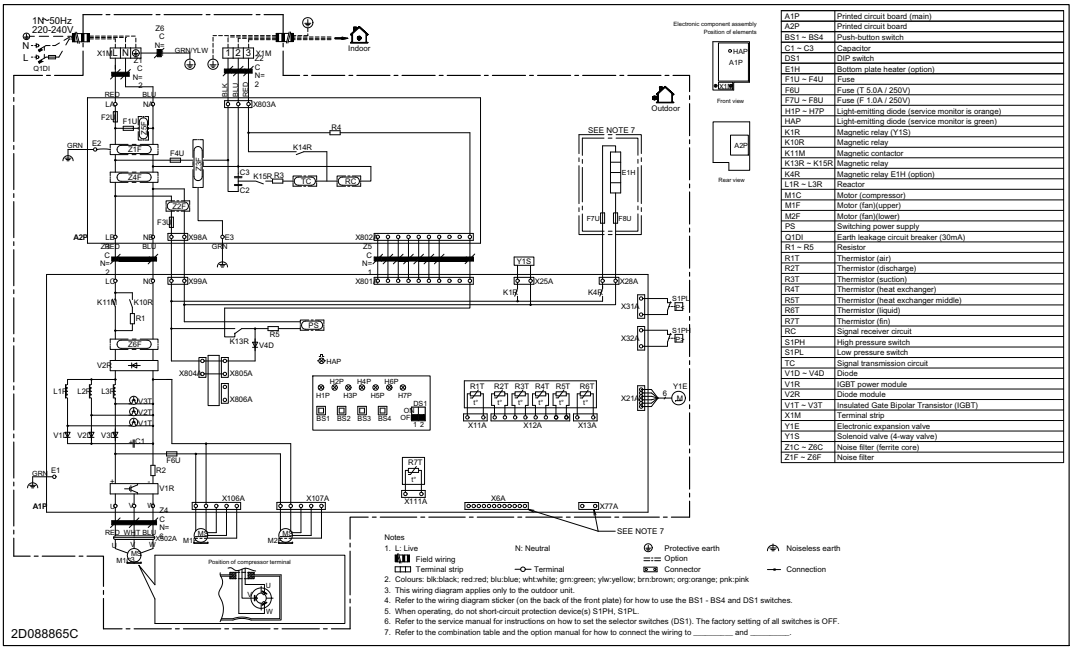


A1P	Printed circuit board (main)
A2P	Printed circuit board
BS1 ~ BS4	Push-button switch
C1 ~ C3	Capacitor
DS1	DIP switch
E1H	Bottom plate heater (option)
F1U ~ F2U	Fuse
F6U	Fuse (T 3.15A / 250V)
F7U ~ F8U	Fuse (F 1.0A / 250V)
H1P ~ H7P	Light-emitting diode (service monitor is orange)
HAP	Light-emitting diode (service monitor is green)
K1R	Magnetic relay (Y1S)
K2R, K10R	Magnetic relay
K1M	Magnetic contactor
K13R ~ K15R	Magnetic relay
L1R	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)
PS	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)
R2, R5, R6	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T ~ R8T	See note 8.
RC	Signal receiver circuit
S1PH	High pressure switch
S1PL	Low pressure switch
TC	Signal transmission circuit
V1D ~ V3D	Diode
V1R	IGBT power module
V2R	Diode module
V1T ~ V2T	Insulated Gate Bipolar Transistor (IGBT)
X1M	Terminal strip
Y1E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z1C ~ Z6C	Noise filter (ferrite core)
Z1F ~ Z3F	Noise filter

Notes
1. L: Live N: Neutral
Field wiring
Terminal strip
Protective earth
Connector
Noiseless earth
Terminal
Option
Connection
2. Colours: blk:black; red:red; blu:blue; wht:white; grn:green; ylw:yellow; brn:brown; org:orange; pnk:pink
3. This wiring diagram applies only to the outdoor unit.
4. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1 - BS4 and DS1 switches.
5. When operating, do not short-circuit protection device(s) S1PH, S1PL.
6. Refer to the service manual for instructions on how to set the selector switches (DS1). The factory setting of all switches is OFF.
7. Refer to the combination table and the option manual for how to connect the wiring to _____ and _____.
8. Thermistor (Positive Temperature Coefficient)

2D089497B

RZQG100-140L9V1



A1P	Printed circuit board (main)
A2P	Printed circuit board
BS1 ~ BS4	Push-button switch
C1 ~ C3	Capacitor
DS1	DIP switch
E1H	Bottom plate heater (option)
F1U ~ F4U	Fuse
F6U	Fuse (T 5.0A / 250V)
F7U ~ F8U	Fuse (F 1.0A / 250V)
H1P ~ H7P	Light-emitting diode (service monitor is orange)
HAP	Light-emitting diode (service monitor is green)
K1R	Magnetic relay (Y1S)
K10R	Magnetic relay
K11M	Magnetic contactor
K13R ~ K15R	Magnetic relay
K4R	Magnetic relay E1H (option)
L1R ~ L3R	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)(upper)
M2F	Motor (fan)(lower)
PS	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)
R1 ~ R5	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T	Thermistor (fin)
RC	Signal receiver circuit
S1PH	High pressure switch
S1PL	Low pressure switch
TC	Signal transmission circuit
V1D ~ V4D	Diode
V1R	IGBT power module
V2R	Diode module
V1T ~ V3T	Insulated Gate Bipolar Transistor (IGBT)
X1M	Terminal strip
Y1E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z1C ~ Z6C	Noise filter (ferrite core)
Z1F ~ Z6F	Noise filter

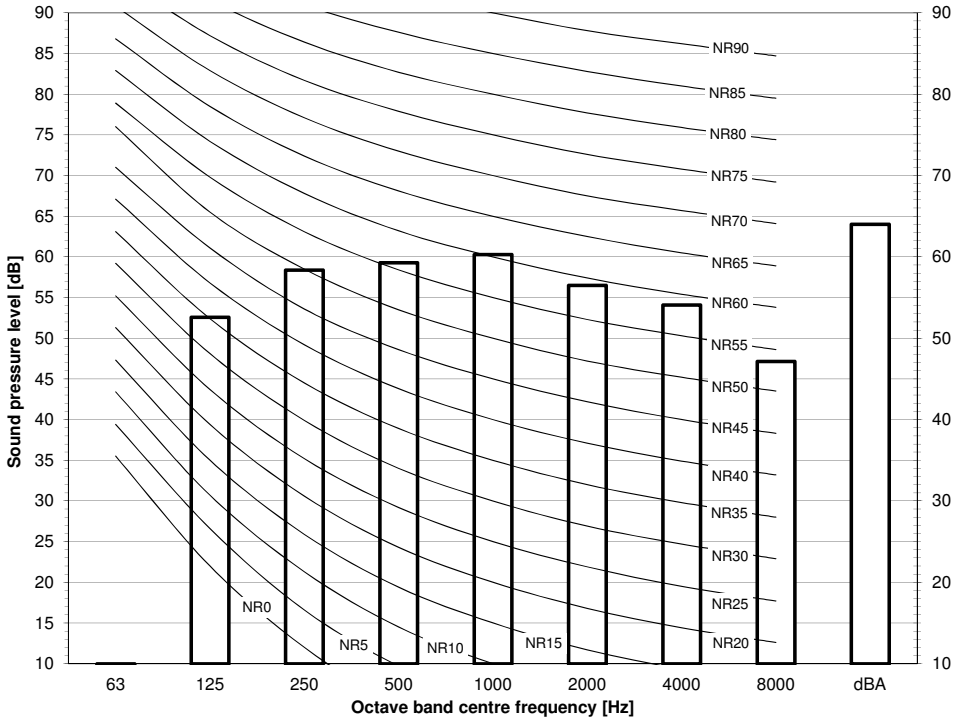
Notes
1. L: Live N: Neutral
Field wiring
Terminal strip
Protective earth
Option
Connector
Terminal
Noiseless earth
Connection
2. Colours: blk:black; red:red; blu:blue; wht:white; grn:green; ylw:yellow; brn:brown; org:orange; pnk:pink
3. This wiring diagram applies only to the outdoor unit.
4. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1 - BS4 and DS1 switches.
5. When operating, do not short-circuit protection device(s) S1PH, S1PL.
6. Refer to the service manual for instructions on how to set the selector switches (DS1). The factory setting of all switches is OFF.
7. Refer to the combination table and the option manual for how to connect the wiring to _____ and _____.

2D088865C

11 Sound data

11 - 1 Sound Power Spectrum

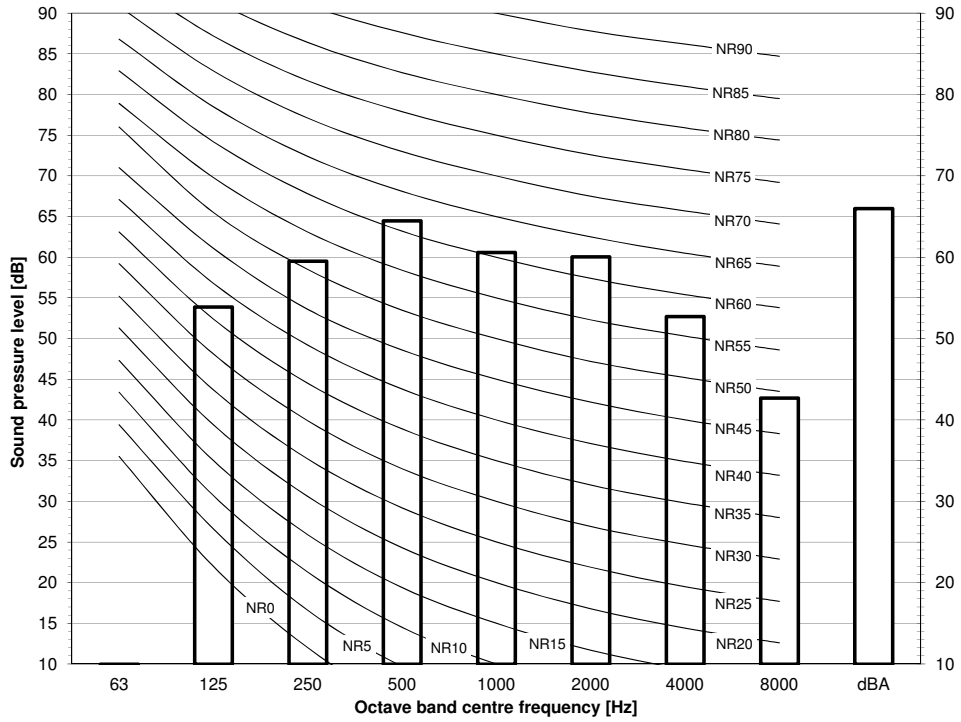
RZQG71L9V1



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D090847

RZQG100L9V1



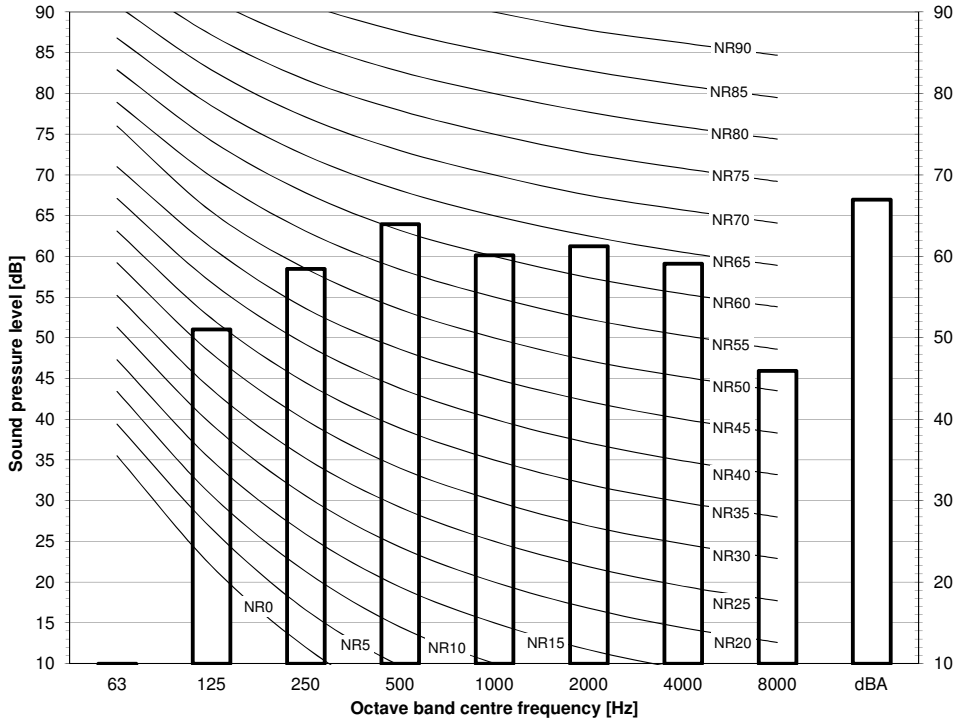
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D090848

11 Sound data

11 - 1 Sound Power Spectrum

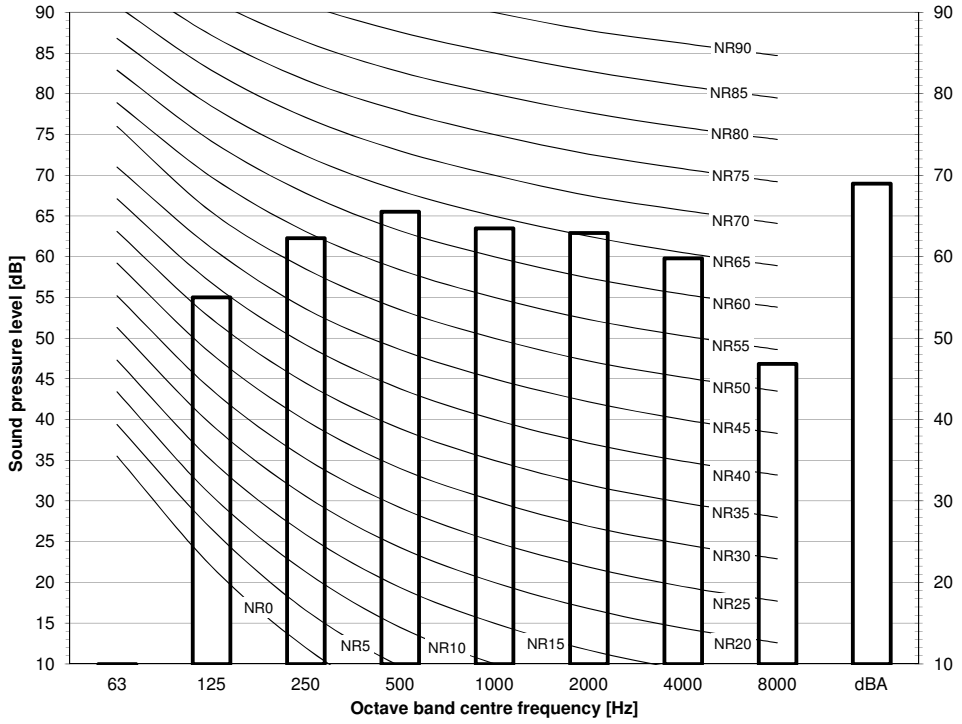
RZQG125L9V1



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D090849

RZQG140L9V1



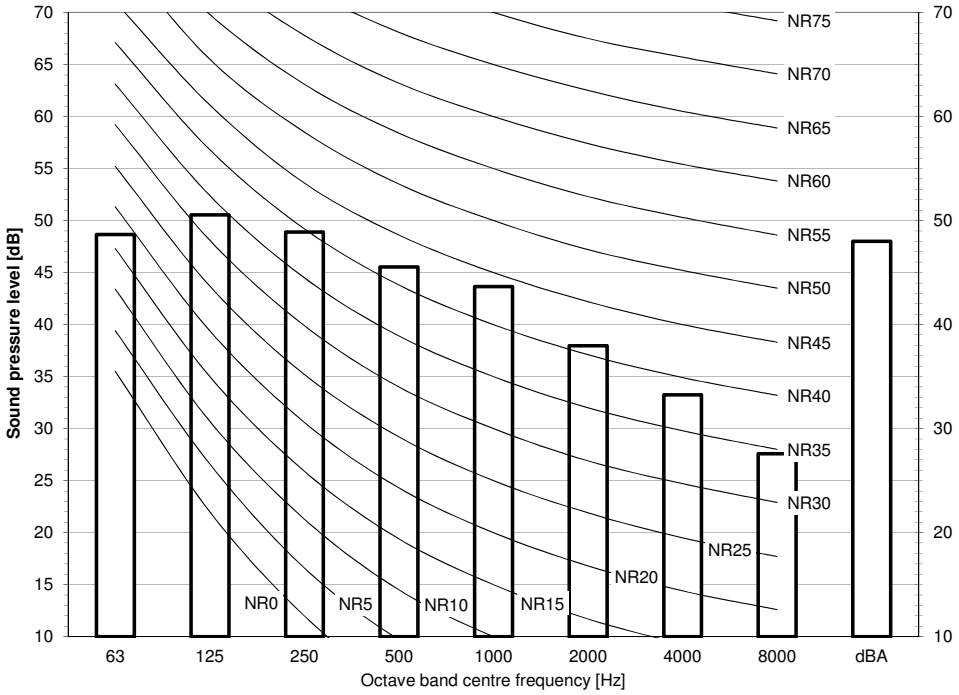
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

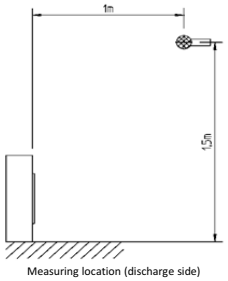
3D090850

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZQG71L9V1

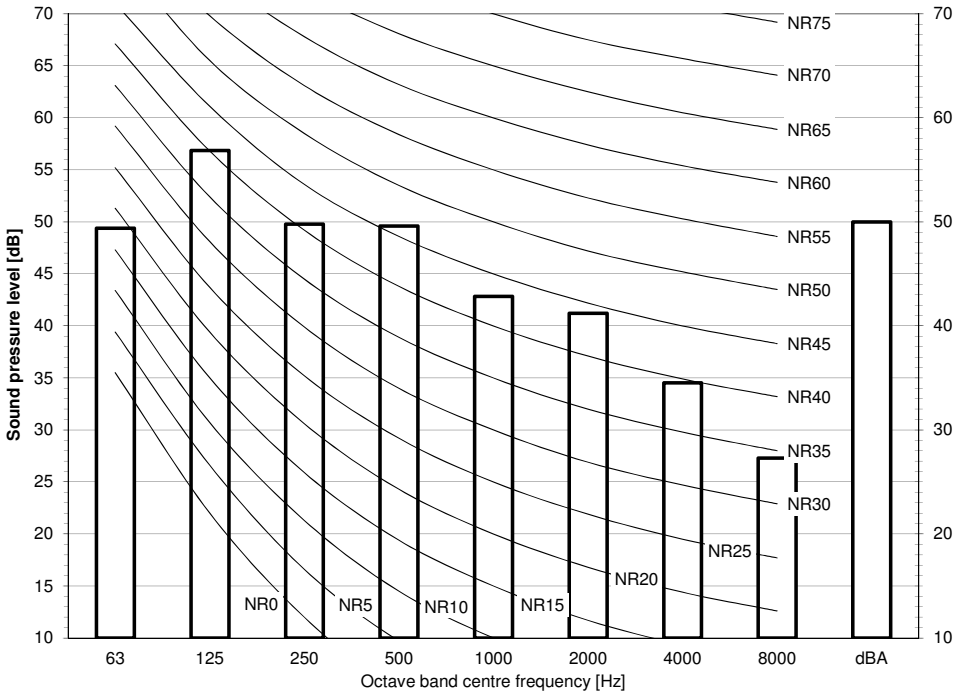


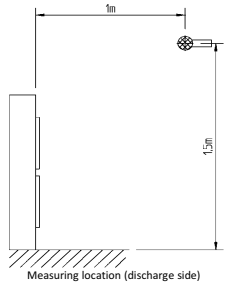


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090877

RZQG100L9V1





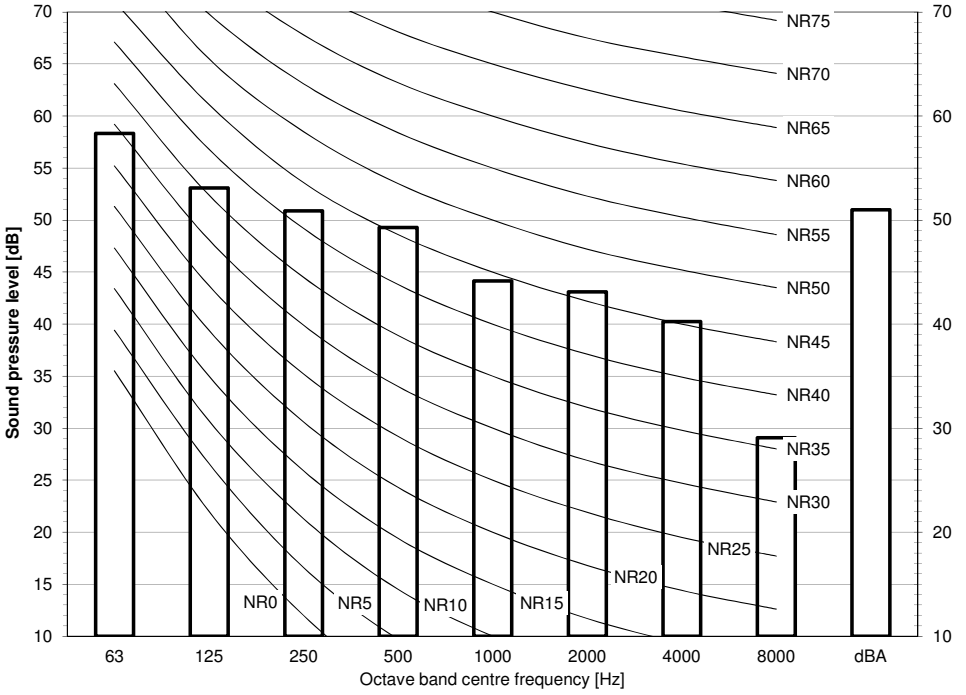
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

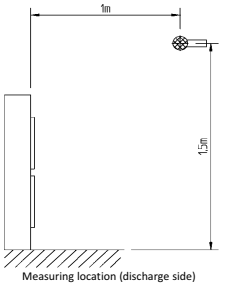
3D090878

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZQG125L9V1

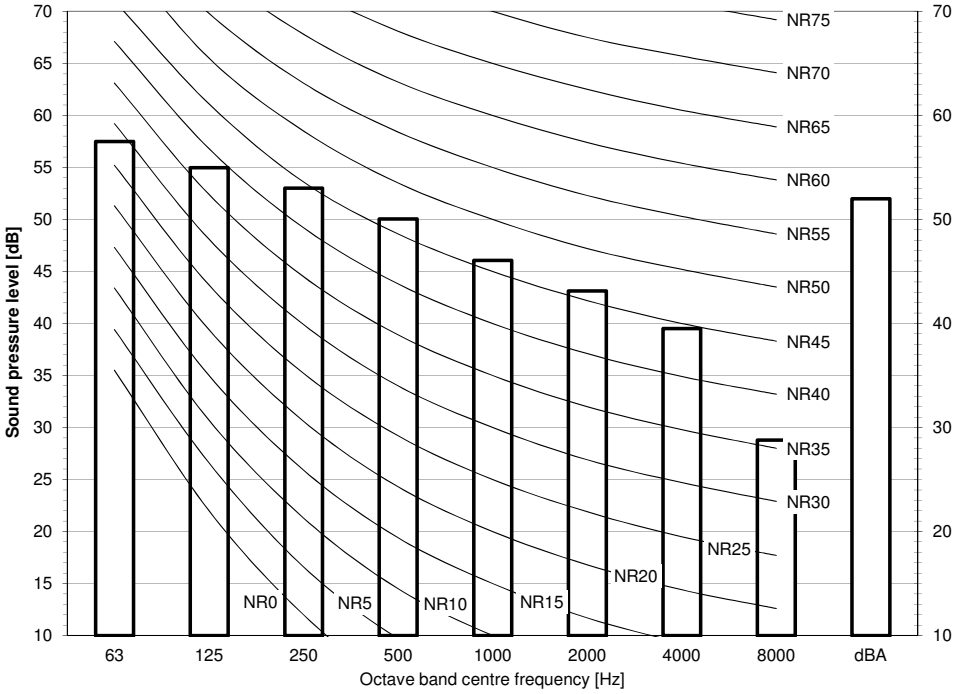


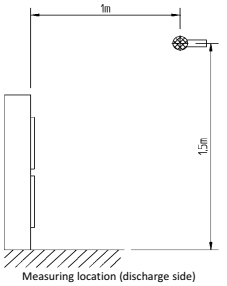


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090879

RZQG140L9V1





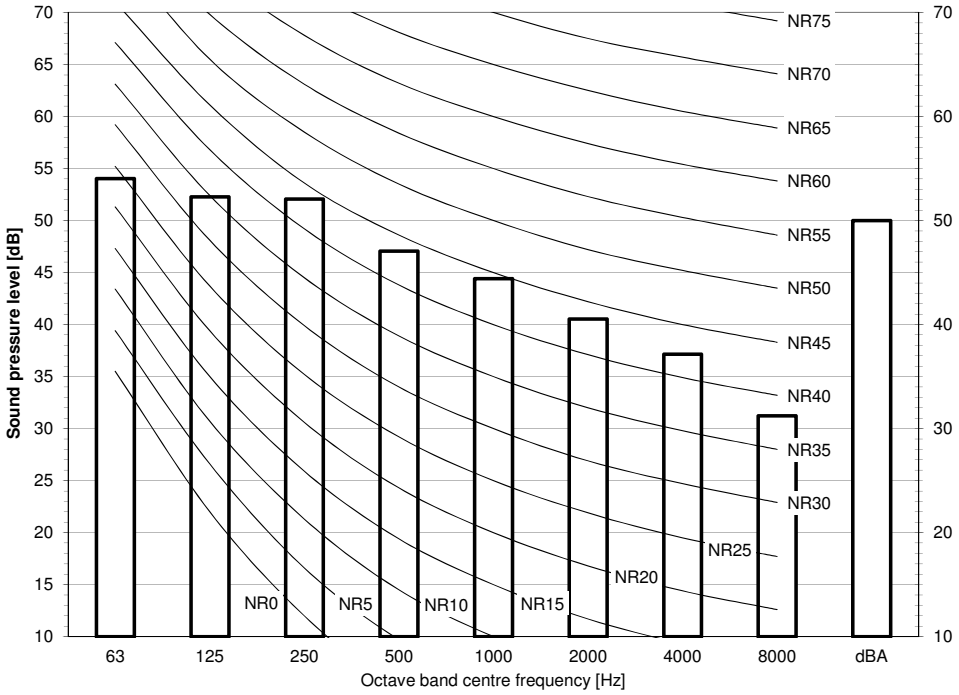
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

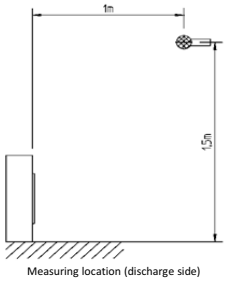
3D090880

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZQG71L9V1

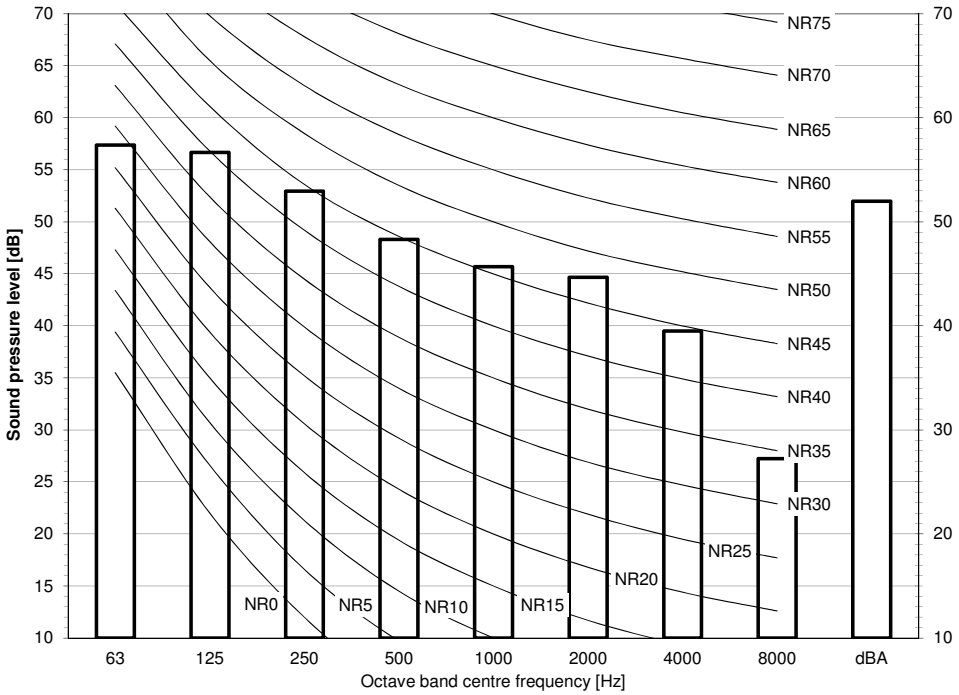


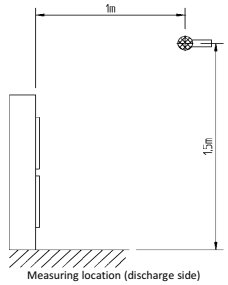


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090867

RZQG100L9V1





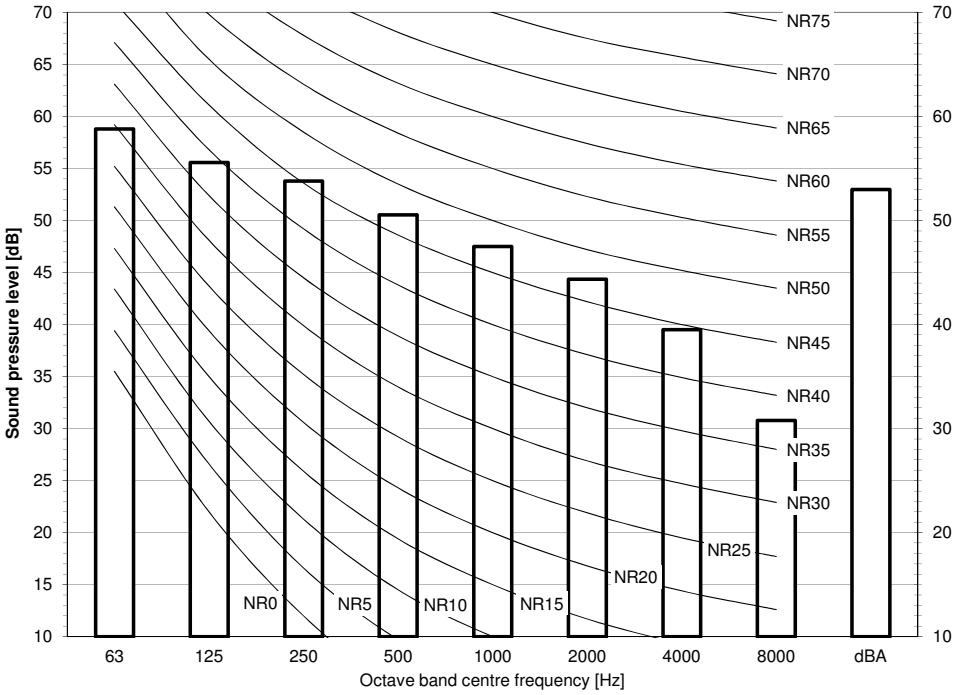
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

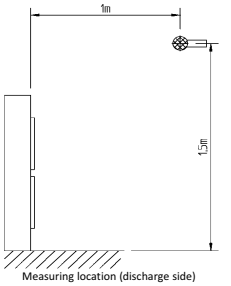
3D090868

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZQG125L9V1

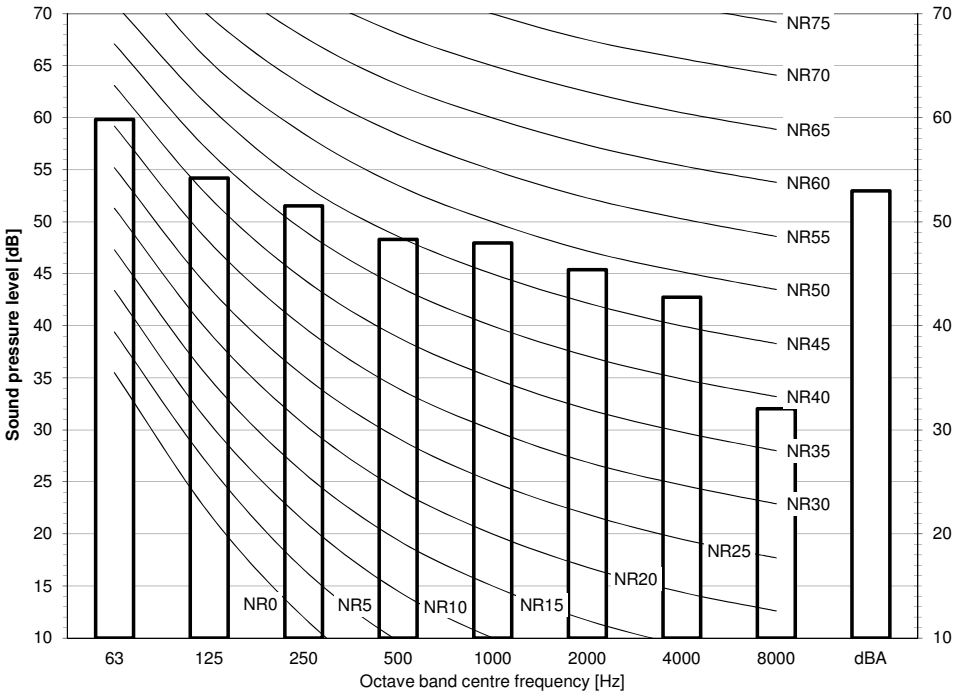


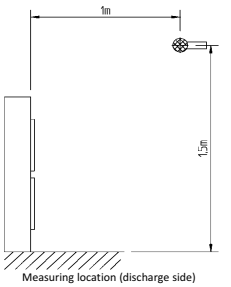


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090869

RZQG140L9V1





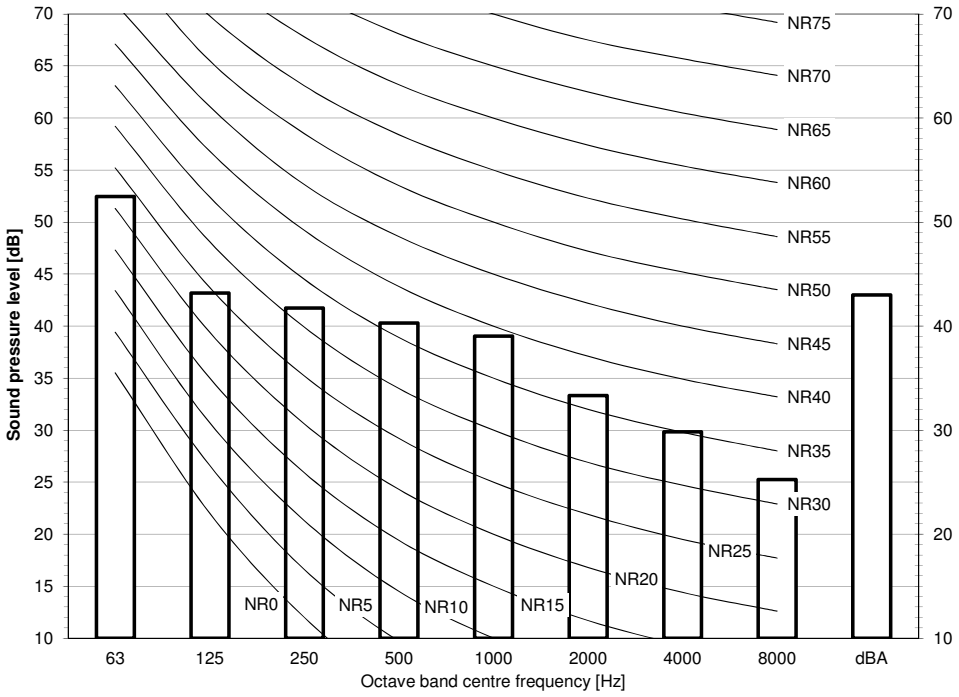
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

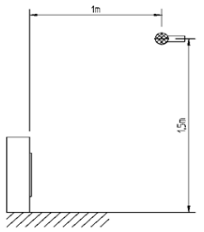
3D090870

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZQG71L9V1

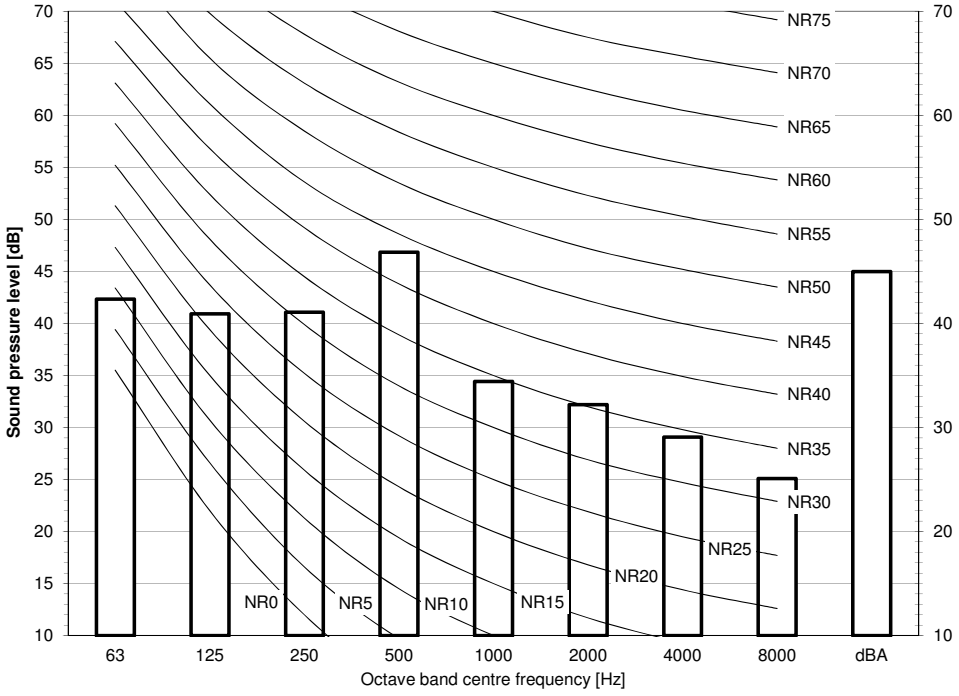


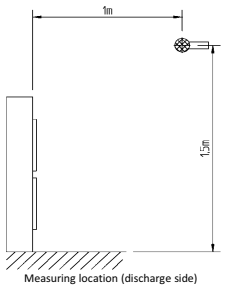


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090857

RZQG100L9V1





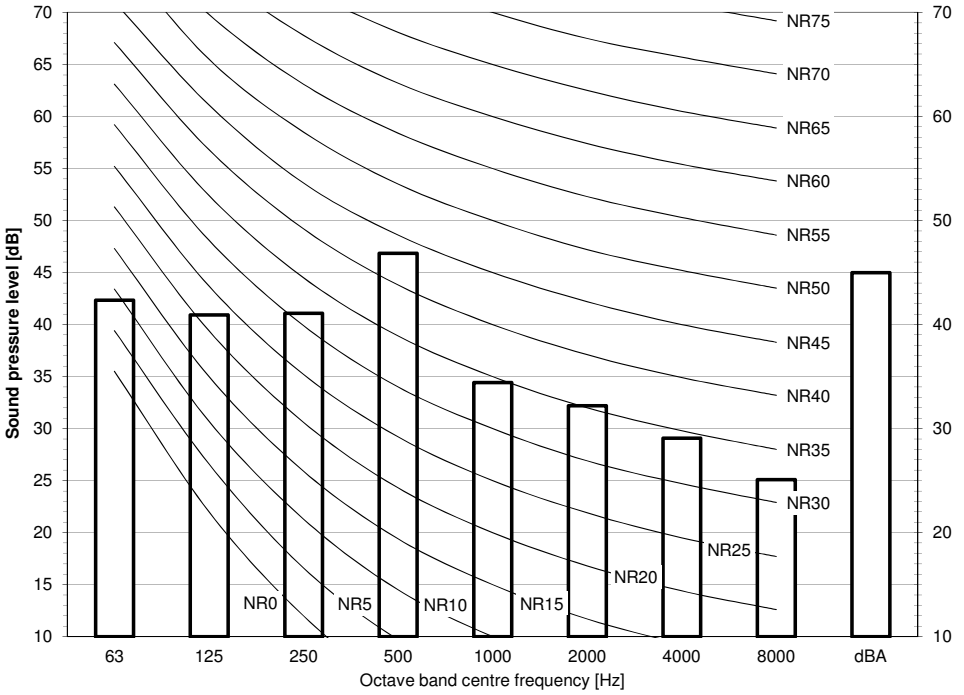
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

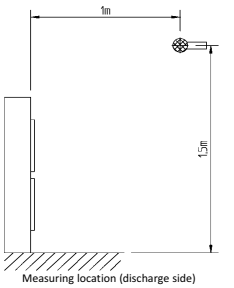
3D090858

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZQG125L9V1

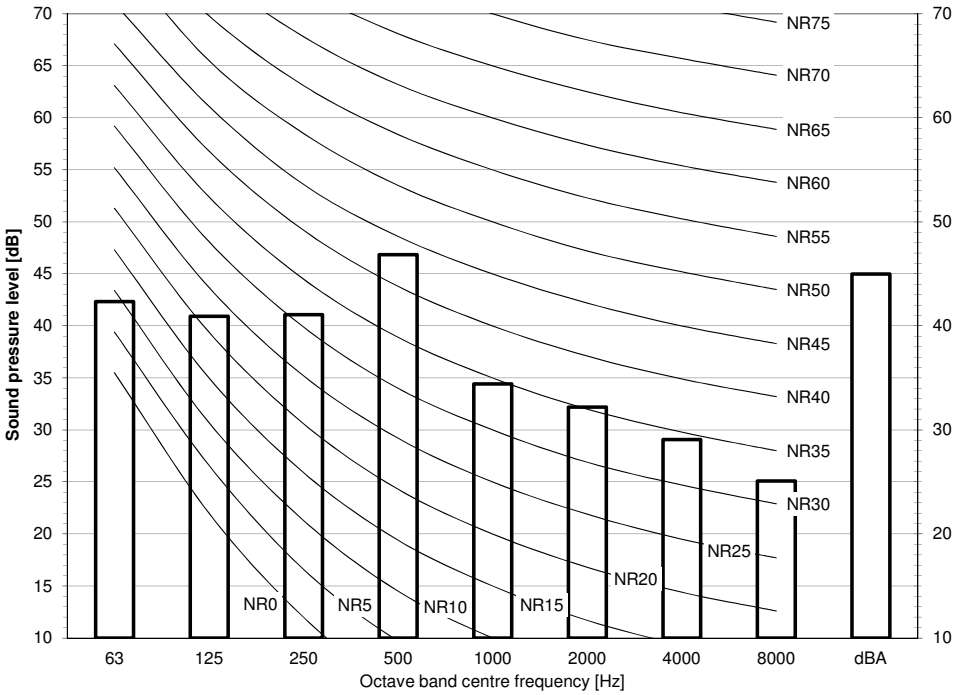


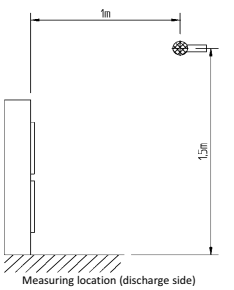


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D090859

RZQG140L9V1





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

3D090860

12 Installation

12 - 1 Installation Method

RZQG-L9V1

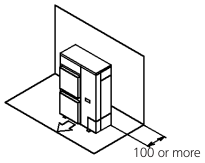
Installation service space

The measure of these values is "mm".

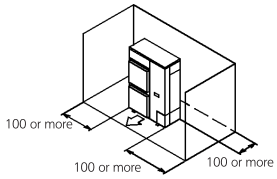
(A) When there are obstacles on suction sides.

- **No obstacle above**

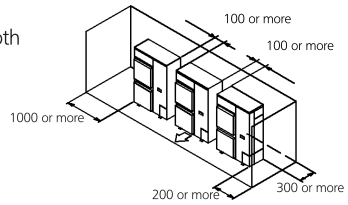
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

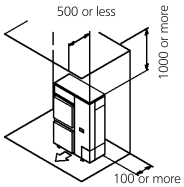


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

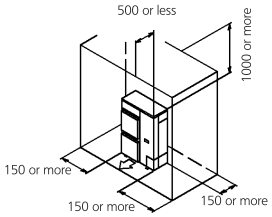


- **Obstacle above, too.**

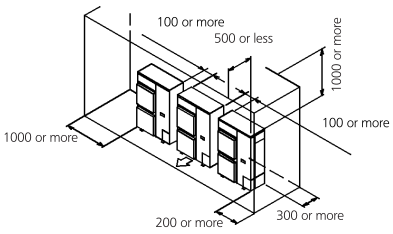
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



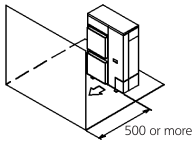
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



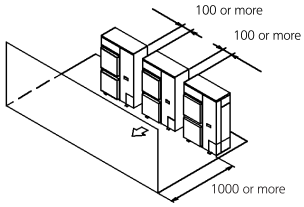
(B) When there are obstacles on discharge sides.

- **No obstacle above**

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

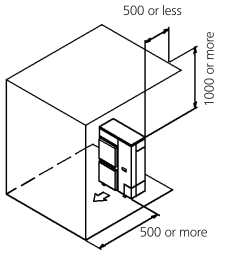


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

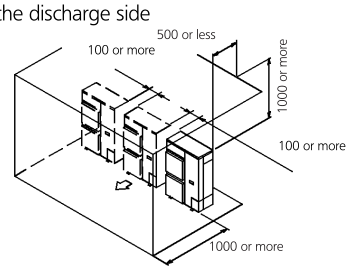


- **Obstacle above, too**

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



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



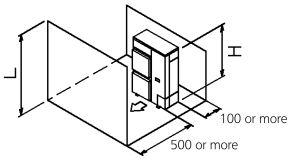
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

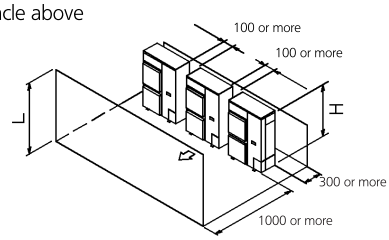
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



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



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12 Installation

12 - 1 Installation Method

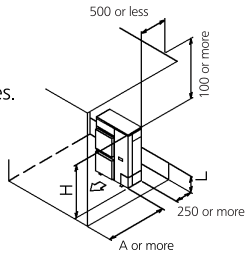
RZQG-L9V1

- **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	

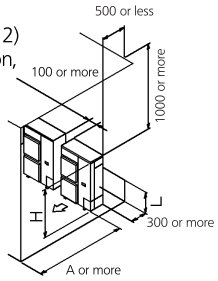


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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.

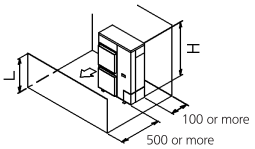


Pattern 2

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**

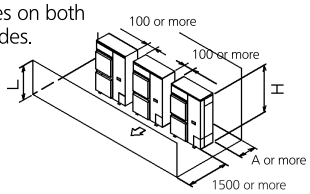
① Stand-alone installation
- No obstacle above



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

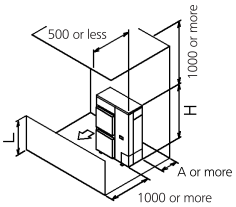


- **obstacle above**

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	

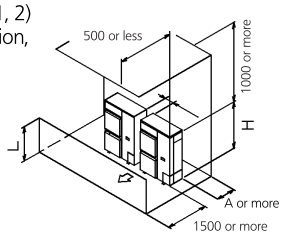


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

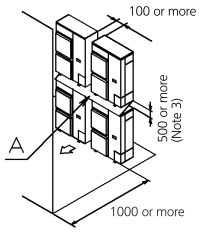
	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

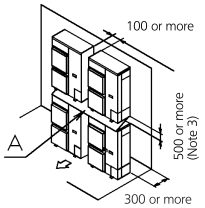


(D) Double-decker installation

① Obstacle on the discharge side. (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.

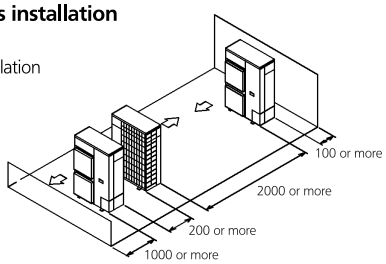


② Obstacle on the suction side. (1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height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

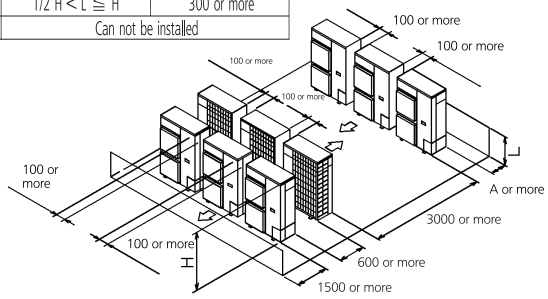
① One row of stand-alone installation



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.

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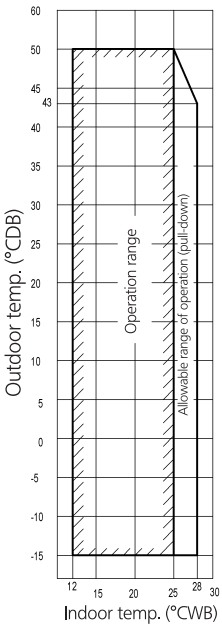
13 Operation range

13 - 1 Operation Range

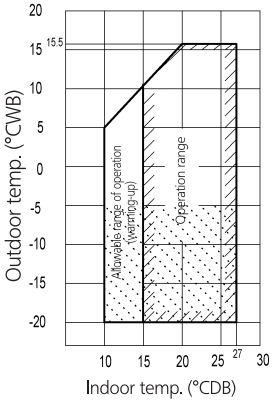
13

RZQG-L9V1

(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.

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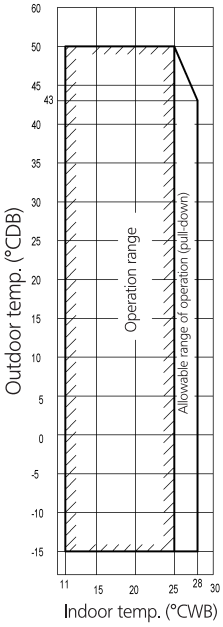
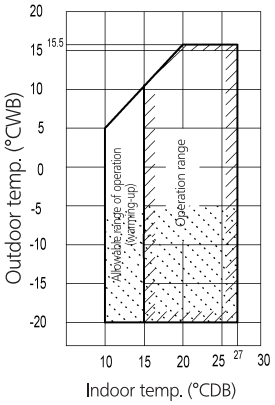
RZQG-L9V1 - EDP Room

(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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