



Air Conditioning Technical Data

Pair, Twin, Triple, double twin



EEEN15-100

RZQ-C

TABLE OF CONTENTS

RZQ-C

1	Features	2
2	Specifications	3
	Capacity and Power input	3
	Technical Specifications	3
	Electrical Specifications	5
3	Electrical data	6
4	Options	10
5	Combination table	11
6	Capacity tables	12
	Cooling Capacity Tables	12
	Heating Capacity Tables	14
	Cooling/Heating Capacity Tables	16
7	Dimensional drawings	17
	Dimensional Drawings	17
	Dimensional Drawings with Accessories	18
8	Centre of gravity	19
9	Piping diagrams	20
	Piping Diagrams	20
	Piping Diagram Twin Application	21
	Piping Diagram Triple Application	22
	Piping Diagram Double Twin Application	23
10	Wiring diagrams	24
	Wiring Diagrams - Three Phase	24
11	Sound data	25
	Sound Power Spectrum	25
	Sound Pressure Spectrum - Cooling	26
	Sound Pressure Spectrum - Heating	27
12	Installation	28
	Installation Method	28
	Fixation and Foundation of Units	29
13	Operation range	30

1 Features

Packaged system for commercial applications

- Available as 20 and 25kW
- Re-use of existing R-22 or R-407C technology
- Guarantees operation in heating mode down to -15°C
- Standard night quiet mode
- Maximum piping length up to 100m
- Maximum installation height difference up to 30m
- Wide range of connectable indoor units

1



Inverter



Auto cooling-
heating
changeover

2 Specifications

2-1 Capacity and Power input				FDQ200B/RZQ200C	FDQ250B/RZQ250C
Cooling capacity	Nom.		kW	20.0 (1)	24.1 (1)
Heating capacity	Nom.		kW	23.0 (2)	26.4 (2)
Power input	Cooling	Nom.	kW	6.23	8.58
	Heating	Nom.	kW	6.74	8.22
Seasonal efficiency (according to EN14825)	Cooling	Energy label		-	
		Pdesign	kW	-	
		SEER		-	
		Annual energy consumption	kWh	-	
	Heating (Average climate)	Energy label		-	
		Pdesign	kW	-	
		SCOP		-	
		Annual energy consumption	kWh	-	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.21	2.81
	COP			3.41	3.21
	Annual energy consumption		kWh	3,115	4,290
	Energy label	Cooling		-	
		Heating		-	
Piping connections	Liquid	Quantity		1	
		Type		Braze connection	
		OD	mm	9.52	12.7
	Gas	Quantity		1	
		Type		Braze connection	
		OD	mm	22.2	
	Heat insulation			Both liquid and gas pipes	
Current	Nominal running current (RLA) - 50Hz	Cooling	A	5.0	

Notes

(1) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m

(2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

2-2 Technical Specifications				RZQ200C	RZQ250C
Capacity control	Method			Inverter controlled	
Casing	Colour			Daikin White	
	Material			Painted galvanized steel plate	
Dimensions	Unit	Height	mm	1,680	
		Width	mm	930	
		Depth	mm	765	
	Packed unit	Height	mm	1,855	
		Width	mm	995	
		Depth	mm	860	
Weight	Unit		kg	183	184
	Packed unit		kg	217	218
Packing	Material			Carton	
	Weight		kg	4.02	
Packing 2	Material			Wood	
	Weight		kg	20.85	
Packing 3	Material			Plastic	
	Weight		kg	0.265	

2 Specifications

2-2 Technical Specifications					RZQ200C		RZQ250C	
Heat exchanger	Length		mm		1,778			
	Rows	Quantity			54			
	Fin pitch		mm		2.00			
	Passes	Quantity			18			
	Face area		m²		2.112			
	Stages	Quantity			2			
	Empty tubeplate hole	Quantity			0			
	Tube type				ø8 Hi-XSS			
	Fin	Type			Non-symmetric waffle louvre			
	Treatment			Hydrophilic and corrosion resistant				
Compressor	Quantity				1			
	Model				Inverter			
	Type				Hermetically sealed scroll compressor			
	Speed		rpm		7,980			
	Output		W		3.08			
	Crankcase heater		W		33			
Fan	Type				Propeller fan			
	Discharge direction				Vertical			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m³/min	171			
			Super low	m³/min	-			
				cfm	-			
		Heating	Nom.	m³/min	171			
			Super low	m³/min	-			
				cfm	-			
External static pressure	Max.		Pa	78				
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output		W		750.00			
	Speed	Cooling	Super low	rpm	-			
		Heating	Super low	rpm	-			
Sound power level	Cooling			dBA	78			
	Heating			dBA	78			
Sound pressure level	Nom.			dBA	57			
Operation range	Cooling	Ambient	Min.	°CDB	-5.0			
			Max.	°CDB	46.0			
	Heating	Ambient	Min.	°CWB	-15.0			
			Max.	°CWB	15.0			
Refrigerant	Type				R-410A			
	Charge		kg		8.3		9.3	
			TCO _{2eq}		17.3		19.4	
	Control				Electronic expansion valve			
	GWP				2,087.5			
	Circuits	Quantity			1			
Refrigerant oil	Type				Synthetic (ether) oil			
	Charged volume		l		2.0			
Piping connections	Liquid	Type			Braze connection			
		OD	mm		9.52		12.7	
	Gas	Type			Braze connection			
		OD	mm		22.20			
	Drain	ID	mm		-			
	Piping length	OU - IU	Max.	m	100			
	Heat insulation				Both liquid and gas pipes			
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			

2 Specifications

2-2 Technical Specifications			RZQ200C	RZQ250C
Safety devices	Item	01	High pressure switch	
		02	Fan driver overload protector	
		03	Overcurrent relay	
		04	Inverter overload protector	
		05	PC board fuse	

2-3 Electrical Specifications				RZQ200C	RZQ250C
Power supply	Name			Y1	
	Phase			3N~	
	Frequency		Hz	50	
	Voltage		V	380-415	
	Voltage range	Min.	%	-10	
		Max.	%	10	
Current - 50Hz	Maximum fuse amps (MFA)		A	20	
Current	Zmax	List		No requirements	
	Recommended fuses		A	25	
Current - 60Hz	Maximum fuse amps (MFA)		A	-	
Wiring connections	For power supply	Quantity		5	
		Remark		Earth wire included	
	For connection with indoor	Quantity		4	
		Remark		Earth wire included	
Power supply intake			Outdoor unit only		

Notes

Sound power level is an absolute value that a sound source generates.

Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.

Sound values are measured in a semi-anechoic room.

Power supply to the FDQ indoor unit is separate

See separate drawing for electrical data

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

RZQ-C

Unit combination			Power supply				Comp.		OFM		IFM		
Indoor unit	Outdoor unit		Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ50B8V1	×4	RZQ200C7Y1B	50 - 400	Max. 50Hz 415V Min. 50Hz 380V	17.8	-	20	-	14.7	0.75	0.7	0.045×4	0.6×4
FCQ60B8V1	×3	RZQ200C7Y1B	50 - 400		17.2	-	20	-	14.7	0.75	0.7	0.045×3	0.6×3
FCQ71B8V3B	×3	RZQ200C7Y1B	50 - 400		17.2	-	20	-	14.7	0.75	0.7	0.045×3	0.6×3
FCQ100B8V3B	×2	RZQ200C7Y1B	50 - 400		17.4	-	20	-	14.7	0.75	0.7	0.090×2	1.0×2
FCQ50C7VEB	×4	RZQ200C7Y1B	50 - 400		15.2	-	20	-	13.3	0.75	0.7	0.056×4	0.3×4
FCQ60C7VEB	×3	RZQ200C7Y1B	50 - 400		15.2	-	20	-	13.3	0.75	0.7	0.056×3	0.4×3
FCQ71C7VEB	×3	RZQ200C7Y1B	50 - 400		15.5	-	20	-	13.3	0.75	0.7	0.056×3	0.5×3
FCQ100C7VEB	×2	RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.120×2	0.7×2
FFQ50B1V1B	×4	RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.055×4	0.7×4
FFQ60B1V1B	×3	RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.055×3	0.7×3
FBQ50B7V1	×4	RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.085×4	0.7×4
FBQ60B7V1	×3	RZQ200C7Y1B	50 - 400		16.7	-	25	-	13.3	0.75	0.7	0.125×3	0.9×3
FBQ71B7V3B	×3	RZQ200C7Y1B	50 - 400		16.7	-	25	-	13.3	0.75	0.7	0.125×3	0.9×3
FBQ100B7V3B	×2	RZQ200C7Y1B	50 - 400		16.0	-	20	-	13.3	0.75	0.7	0.135×2	1.0×2
FHQ50B1V1B	×4	RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4	0.6×4
FHQ60B1V1B	×3	RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3	0.6×3
FHQ71B1V1B	×3	RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3	0.6×3
FHQ100B1V1B	×2	RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2	0.7×2
FUQ71B1V1B	×3	RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.045×3	0.7×3
FUQ100B1V1B	×2	RZQ200C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.090×2	1.1×2
FAQ71B1V1B	×3	RZQ200C7Y1B	50 - 400		14.9	-	20	-	13.3	0.75	0.7	0.043×3	0.3×3
FAQ100B1V1B	×2	RZQ200C7Y1B	50 - 400		14.8	-	20	-	13.3	0.75	0.7	0.049×2	0.4×2
FDQ200B7V3B	RZQ200C7Y1B	50 - 400	14.0		-	20	-	13.3	0.75	0.7	0.650	6.8	
FCQ60B8V1	×4	RZQ250C7Y1B	50 - 400		17.8	-	20	-	14.7	0.75	0.7	0.045×4	0.6×4
FCQ125B8V3B	×2	RZQ250C7Y1B	50 - 400		17.4	-	20	-	14.7	0.75	0.7	0.090×2	1.0×2
FCQ60C7VEB	×4	RZQ250C7Y1B	50 - 400		15.6	-	20	-	13.3	0.75	0.7	0.056×4	0.4×4
FCQ125C7VEB	×2	RZQ250C7Y1B	50 - 400		16.0	-	20	-	13.3	0.75	0.7	0.120×2	1.0×2
FFQ60B1V1B	×4	RZQ250C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.055×4	0.7×4
FBQ60B7V1	×4	RZQ250C7Y1B	50 - 400		17.6	-	25	-	13.3	0.75	0.7	0.125×4	0.9×4
FBQ125B7V3B	×2	RZQ250C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.225×2	1.4×2
FHQ60B1V1B	×4	RZQ250C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4	0.6×4
FHQ125B1V1B	×2	RZQ250C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2	0.7×2
FUQ125B1V1B	×2	RZQ250C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.090×2	1.1×2
FDQ125B7V3B	×2	RZQ250C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	0.500×2	4.2×2
FDQ250B7V3B	RZQ250C7Y1B	50 - 400	14.0		-	20	-	13.3	0.75	0.7	1.000	7.6	
FCQHG71FVEB	×3	RZQ200C7Y1B	50 - 400		17.3	-	20	-	13.3	0.75	0.7	0.091×3	0.5×3
FCQHG100FVEB	×2	RZQ200C7Y1B	50 - 400		18.7	-	20	-	13.3	0.75	0.7	0.221×2	1.3×2
FCQ650FVEB	×4	RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.039×4	0.3×4
FCQ660FVEB	×3	RZQ200C7Y1B	50 - 400		16.5	-	20	-	13.3	0.75	0.7	0.044×3	0.3×3
FCQ671FVEB	×3	RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3	0.4×3
FCQ100FVEB	×2	RZQ200C7Y1B	50 - 400	17.2	-	20	-	13.3	0.75	0.7	0.117×2	0.7×2	
FHQ50CAVEB	×4	RZQ200C7Y1B	50 - 400	17.9	-	20	-	13.3	0.75	0.7	0.060×4	0.5×4	
FHQ60CAVEB	×3	RZQ200C7Y1B	50 - 400	17.3	-	20	-	13.3	0.75	0.7	0.091×3	0.5×3	
FHQ71CAVEB	×3	RZQ200C7Y1B	50 - 400	18.4	-	20	-	13.3	0.75	0.7	0.091×3	0.8×3	
FHQ100CAVEB	×2	RZQ200C7Y1B	50 - 400	18.4	-	20	-	13.3	0.75	0.7	0.150×2	1.2×2	
FUQ71CVEB	×3	RZQ200C7Y1B	50 - 400	18.0	-	20	-	13.3	0.75	0.7	0.046×3	0.7×3	
FUQ100CVEB	×2	RZQ200C7Y1B	50 - 400	17.9	-	20	-	13.3	0.75	0.7	0.106×2	1.0×2	
FAQ71CVEB	×3	RZQ200C7Y1B	50 - 400	16.9	-	20	-	13.3	0.75	0.7	0.048×3	0.4×3	
FAQ100CVEB	×2	RZQ200C7Y1B	50 - 400	16.4	-	20	-	13.3	0.75	0.7	0.064×2	0.4×2	
FCQHG125FVEB	×2	RZQ250C7Y1B	50 - 400	18.9	-	20	-	13.3	0.75	0.7	0.224×2	1.4×2	
FCQ660FVEB	×4	RZQ250C7Y1B	50 - 400	16.9	-	20	-	13.3	0.75	0.7	0.044×4	0.3×4	
FCQG125FVEB	×2	RZQ250C7Y1B	50 - 400	18.2	-	20	-	13.3	0.75	0.7	0.106×2	1.1×2	
FHQ60CAVEB	×4	RZQ250C7Y1B	50 - 400	17.9	-	20	-	13.3	0.75	0.7	0.091×4	0.5×4	
FHQ125CAVEB	×2	RZQ250C7Y1B	50 - 400	19.4	-	20	-	13.3	0.75	0.7	0.150×2	1.6×2	
FUQ125CVEB	×2	RZQ250C7Y1B	50 - 400	18.2	-	20	-	13.3	0.75	0.7	0.106×2	1.1×2	

Max. 50Hz 415V
Min. 50Hz 380V

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 indoor conditions:
Power supply: 50Hz 400V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB/6.0°CWB
- 2 TOCA means the total value of each OC set.
- 3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 4 Maximum allowable voltage variation between phases is 2%.
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA.
(next lower standard fuse rating, min,15A)
- 6 Select wire size based on the larger value of MCA or TOCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

3D056844E

3 Electrical data

3 - 1 Electrical Data

RZQ-C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ60D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	15,5	20	–	13,3	0,75	0,7	3x0.07	3x0.5
4xFBQ50D2VEB	RZQ200C7Y1B				16,4	20	–	13,3	0,75	0,7	4x0.089	4x0.6
2xFBQ125D2VEB	RZQ250C7Y1B				17	20	–	13,3	0,75	0,7	2x0.187	2x1.5
4xFBQ60D2VEB	RZQ250C7Y1B				16	20	–	13,3	0,75	0,7	4x0.07	4x0.5

Notes

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

Symbols

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

3D094863B

RZQ-C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ60A2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	15,5	16	–	13,3	0,75	0,7	3x0.06	3x0.5
4xFNQ50A2VEB	RZQ200C7Y1B				16	20	–	13,3	0,75	0,7	4x0.06	4x0.5
4xFNQ60A2VEB	RZQ250C7Y1B				16	20	–	13,3	0,75	0,7	4x0.06	4x0.5

Notes

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

Symbols

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

3D096315C

3 Electrical data

3 - 1 Electrical Data

3

RZQ200C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ100D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	16	20	–	13,3	0,75	0,7	2x0.127	2x1
3xFBQ71D2VEB	RZQ200C7Y1B				15,5	20	–	13,3	0,75	0,7	3x0.07	3x0.5

Notes

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

Symbols

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

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

3D094863B

3 Electrical data

3 - 1 Electrical Data

RZQ200-250C

Unit combination			Minimum Ssc value [kVA]
FCQ50C7VEB	x4	RZQ200C7Y1B	-
FCQ60C7VEB	x3	RZQ200C7Y1B	-
FCQ71C7VEB	x3	RZQ200C7Y1B	-
FCQ100C7VEB	x2	RZQ200C7Y1B	-
FFQ50BV1B	x4	RZQ200C7Y1B	1025
FFQ60BV1B	x3	RZQ200C7Y1B	1025
FBQ50B7V1	x4	RZQ200C7Y1B	1025
FBQ60B7V1	x3	RZQ200C7Y1B	1025
FBQ71B7V3B	x3	RZQ200C7Y1B	1025
FBQ100B7V3B	x2	RZQ200C7Y1B	-
FHQ50BUV1B	x4	RZQ200C7Y1B	1025
FHQ60BUV1B	x3	RZQ200C7Y1B	-
FHQ71BUV1B	x3	RZQ200C7Y1B	-
FHQ100BUV1B	x2	RZQ200C7Y1B	-
FUQ71BUV1B	x3	RZQ200C7Y1B	1025
FUQ100BUV1B	x2	RZQ200C7Y1B	1025
FAQ71BUV1B	x3	RZQ200C7Y1B	-
FAQ100BUV1B	x2	RZQ200C7Y1B	-
FDQ200B7V3B	x1	RZQ200C7Y1B	-
FCQ60C7VEB	x4	RZQ250C7Y1B	-
FCQ125C7VEB	x2	RZQ250C7Y1B	-
FFQ60BV1B	x4	RZQ250C7Y1B	1025
FBQ60B7V1	x4	RZQ250C7Y1B	1025
FBQ125B7V3B	x2	RZQ250C7Y1B	1025
FHQ60BUV1B	x4	RZQ250C7Y1B	1025
FHQ125BUV1B	x2	RZQ250C7Y1B	-
FUQ125BUV1B	x2	RZQ250C7Y1B	1025
FDQ125B7V3B	x2	RZQ250C7Y1B	-
FDQ250B7V3B	x1	RZQ250C7Y1B	-

4TW29041-2

NOTES

-In accordance with EN/IEC 61000-3-12*, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc}^{**} \geq$ minimum Ssc value.

- (*) European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $> 16A$ and $\leq 75A$ per phase.

- (**) Short-circuit power

4 Options

4 - 1 Options

Available options for RZQ200,250C

Name of option		Kit name	
		RZQ200C7Y1B	RZQ250C7Y1B
Central drain pan kit		KWC26B280	
Refrigerant branch piping	Twin	KHRQ22M20TA	
	Triple	KHRQ250H7	
	Double twin	KHRQ22M20TA (3x)	
Demand adaptor		KRP58M51	

4TW29049-1

5

5 - 1

Combination table

Combination Table

RZQ-C

Possible combinations and standard capacities for twin, triple and double twin operation

Outdoor units	Indoor unit combinations		
	Simultaneous operation		
	Twin	Triple	Double twin
	OUT IN IN	OUT IN IN IN	OUT IN IN IN IN
RZQ200C7Y1B	100 - 100 (KHRQ22M20TA)	60 - 60 - 60 71 - 71 - 71 (KHRQ250H)	50 - 50 - 50 - 50 (3x KHRQ22M20TA)
RZQ250C7Y1B	125 - 125 (KHRQ22M20TA)		60 - 60 - 60 - 60 (3x KHRQ22M20TA)

- Notes
1. Possible indoor units
FCQG50 - 125
FCQHG50 -125
FCQ50 - 125
FFQ50,60
FHQ50 - 125
FBQ50-125
FAQ71,100
FUQ71 - 125
FDQ125
FDXS50 - 60
FNQ50-60
 2. The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
 3. Do not combine indoor units of different types within the same installation.
 4. The refnet kits required to install the various combinations are mentioned between brackets.

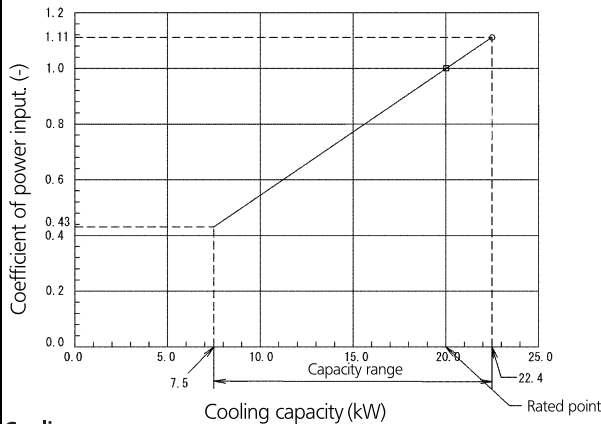
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQ200C

Cooling



Cooling

Indoor	Outdoor temperature (°CDB)											
	25			30			35			40		
	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI	TC kW	SHC kW	CPI
16	20,2	17,0	0,82	19,4	16,3	0,90	18,6	15,5	0,98	17,7	14,8	1,06
18	21,3	17,1	0,83	20,4	16,4	0,91	19,5	15,7	0,99	18,6	14,9	1,07
19	21,8	17,1	0,84	20,9	16,4	0,92	20,0	15,6	1,00	19,1	14,9	1,08
20	22,3	17,1	0,84	21,4	16,4	0,92	20,5	15,6	1,01	19,6	14,9	1,09
22	23,4	17,0	0,85	22,4	16,3	0,94	21,4	15,6	1,02	20,5	14,9	1,10
24	24,4	16,8	0,86	23,4	16,1	0,95	22,4	15,4	1,03	21,4	14,7	1,12

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.
SHC* = SHC correction for other dry bulb.
SHC* = SHC correction for other dry bulb.
= 0,02 x AFR (m³/min.) x (1-BF) x (DB*-EDB).
Add SHC to SHC*.
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are given in table below:

(Twin)

	FCQHG100Fx2	FCQG100Fx2	FHQ100CAx2	FUQ100Cx2	FAQ100Cx2
AFR	32,3x2	32x2	28x2	31x2	26x2
(BF)	(0,17x2)	(0,17x2)	(0,09x2)	(0,2x2)	(0,09x2)

(Triple)

	FCQHG71Fx3	FCQG60Fx3	FCQG71Fx3	FHQ60CAx3	FHQ71CAx3	FUQ71Cx3	FAQ71Cx3
AFR	21,2x3	13,6x3	21,5x3	19,5x3	20,5x3	23x3	18x3
(BF)	(0,2x3)	(0,2x3)	(0,14x3)	(0,20x3)	(0,13x3)	(0,24x3)	(0,16x3)

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

(Twin)

	FCQHG100Fx2	FCQG100Fx2	FHQ100CAx2	FUQ100Cx2	FAQ100Cx2
Cooling	5,60	6,13	6,00	6,07	5,99

(Triple)

	FCQHG71Fx3	FCQG60Fx3	FCQG71Fx3	FHQ60CAx3	FHQ71CAx3	FUQ71Cx3	FAQ71Cx3
Cooling	5,90	7,12	7,12	6,32	6,32	5,93	6,31

SYMBOLS

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

Caution:
TC and SHC are shown by kW.

(Double twin)

	FCQG50Fx4	FHQ50CAx4
AFR	12,6x4	15x4
(BF)	(0,22x4)	(0,17x4)

(Double twin)

	FCQG50Fx4	FHQ50CAx4
Cooling	7,12	6,32

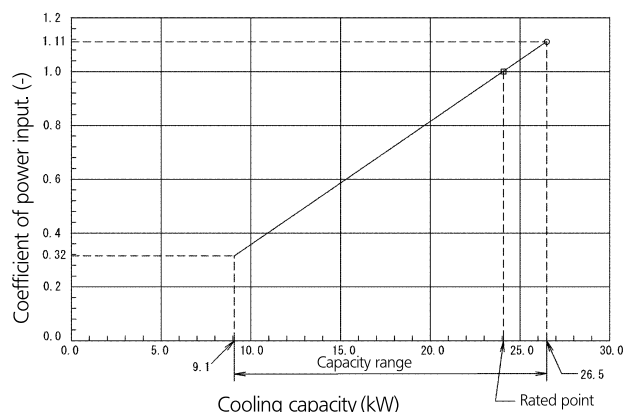
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6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQ250C

Cooling



Cooling

Indoor	Outdoor temperature (°CDB)											
	25			30			35			40		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	(kW)	(kW)	-	(kW)	(kW)	-	(kW)	(kW)	-	(kW)	(kW)	-
16	24,5	21,5	0,79	23,5	20,7	0,88	22,5	19,8	0,98	21,5	19,0	1,08
18	25,7	21,5	0,80	24,6	20,6	0,89	23,6	19,8	0,99	22,5	18,9	1,09
19	26,2	21,5	0,80	25,2	20,6	0,90	24,1	19,8	1,00	23,0	19,0	1,10
20	26,8	21,4	0,81	25,7	20,5	0,91	24,6	19,7	1,01	23,5	18,9	1,11
22	28,0	21,2	0,81	26,8	20,3	0,92	25,7	19,5	1,02	24,5	18,7	1,12
24	29,1	20,9	0,82	27,9	20,1	0,93	26,7	19,3	1,03	25,6	18,4	1,13

NOTES

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

(Twin)

	FCQHG125Fx2	FCQG125Fx2	FHQ125CAx2	FUQ125CX2
AFR	33,5x2	33x2	31x2	32,5x2
(BF)	(0.19x2)	(0.21x2)	(0.134x2)	(0.19x2)

(Double twin)

	FCQG60Fx4	FHQ60CAx4
AFR	13,6x4	19,5x4
(BF)	(0.2x4)	(0.20x4)

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

(Twin)

	FCQHG125Fx2	FCQG125Fx2	FHQ125CAx2	FUQ125CX2
Cooling	8,77	9,80	10,2	9,31

(Double twin)

	FCQG60Fx4	FHQ60CAx4
Cooling	11,1	9,89

SYMBOLS

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

Caution:

TC and SHC are shown by kW.

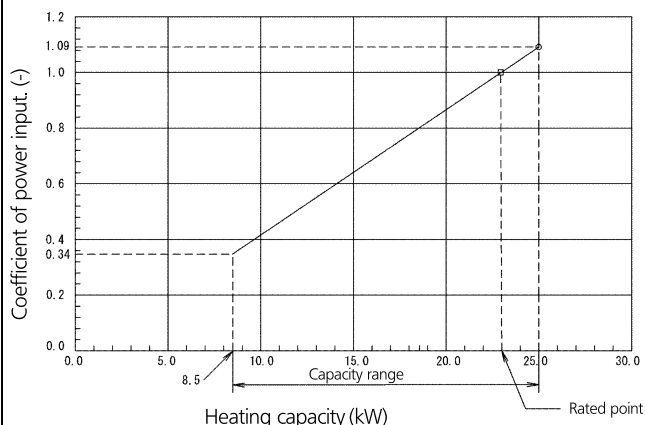
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQ200C

Heating



Heating

Indoor °CDB	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI	TC kW	CPI
16	10,8	0,83	12,2	0,87	13,9	0,91	15,5	0,96	23,3	0,97	25,4	1,01
18	10,8	0,84	12,2	0,88	13,8	0,93	15,4	0,97	23,2	0,98	25,3	1,03
20	10,7	0,85	12,1	0,90	13,7	0,94	15,3	0,99	23,0	1,00	25,1	1,04
22	10,6	0,87	12,0	0,91	13,6	0,96	15,2	1,01	22,8	1,02	24,9	1,06
24	10,5	0,88	11,9	0,93	13,5	0,98	15,1	1,02	22,7	1,03	24,7	1,08

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. at standard conditions.
On the figure the mark with □ show the rated capacity and rated coefficient of power input.
However the max. capacity is not guaranteed, except at standard condition.
- SHC is based on indoor EWB and EDB.
SHC* = SHC correction for other dry bulb.
= $0,02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$.
Add SHC to SHC*.
- Capacities are based on the following conditions:
Outdoor air: 85% RH.
However, the condition rated capacity in heating is 7° CDB / 6° CWB.
Corresponding refrigerant piping length: 5.0 m.
Level difference: 0 m.
- Coefficient of power input is the percentage when the rated value is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating performance include the drop of frost formation.
- Air flow rate and (BF) are given in table below:

(Twin)

	FCQHG100Fx2	FCQG100Fx2	FHQ100CAx2	FUQ100Cx2	FAQ100Cx2
AFR	32,3x2	32x2	28x2	31x2	26x2
(BF)	(0,17x2)	(0,17x2)	(0,09x2)	(0,2x2)	(0,09x2)

(Triple)

	FCQHG71Fx3	FCQG60Fx3	FCQG71Fx3	FHQ60CAx3	FHQ71CAx3	FUQ71Cx3	FAQ71Cx3
AFR	21,2x3	13,6x3	21,5x3	19,5x3	20,5x3	23x3	18x3
(BF)	(0,2x3)	(0,2x3)	(0,14x3)	(0,20x3)	(0,13x3)	(0,24x3)	(0,16x3)

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

(Twin)

	FCQHG100Fx2	FCQG100Fx2	FHQ100CAx2	FUQ100Cx2	FAQ100Cx2
Heating	5,51	6,51	6,36	6,96	6,85

(Triple)

	FCQHG71Fx3	FCQG60Fx3	FCQG71Fx3	FHQ60CAx3	FHQ71CAx3	FUQ71Cx3	FAQ71Cx3
Heating	5,81	7,30	7,30	7,02	7,02	6,48	7,28

SYMBOLS

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

Caution:
TC and SHC are shown by kW.

(Double twin)

	FCQG50Fx4	FHQ50CAx4
AFR	12,6x4	15x4
(BF)	(0,22x4)	(0,17x4)

(Double twin)

	FCQG50Fx4	FHQ50CAx4
Heating	7,30	7,02

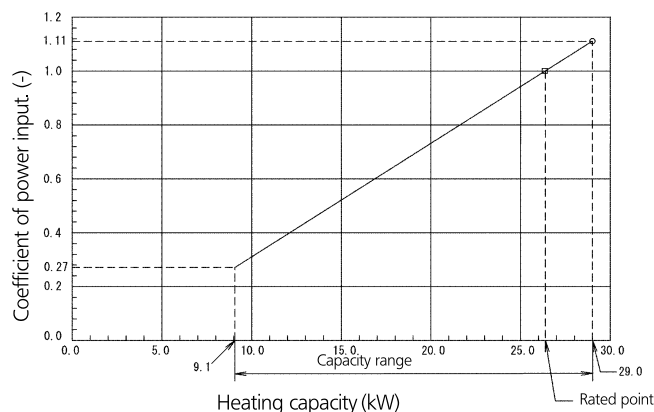
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6 Capacity tables

6 - 2 Heating Capacity Tables

RZQ250C

Heating



Heating

Indoor °CDB	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
	TC (kW)	CPI	TC (kW)	CPI	TC (kW)	CPI	TC (kW)	CPI	TC (kW)	CPI	TC (kW)	CPI
16	13,2	0,77	14,7	0,82	16,6	0,87	18,4	0,91	26,9	0,92	29,2	0,98
18	13,1	0,80	14,6	0,85	16,4	0,90	18,2	0,95	26,6	0,96	28,9	1,02
20	12,9	0,84	14,5	0,88	16,3	0,94	18,0	0,99	26,4	1,00	28,7	1,06
22	12,8	0,87	14,3	0,92	16,1	0,97	17,9	1,03	26,2	1,04	28,4	1,10
24	12,7	0,90	14,2	0,95	16,0	1,01	17,7	1,06	25,9	1,08	28,2	1,14

NOTES

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

(Twin)

	FCQHG125Fx2	FCQG125Fx2	FHQ125CAx2	FUQ125Cx2
AFR	33.5x2	33x2	31x2	32.5x2
(BF)	(0.19x2)	(0.21x2)	(0.134x2)	(0.19x2)

(Double twin)

	FCQG60Fx4	FHQ60CAx4
AFR	13.6x4	19.5x4
(BF)	(0.2x4)	(0.20x4)

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

(Twin)

	FCQHG125Fx2	FCQG125Fx2	FHQ125CAx2	FUQ125Cx2
Heating	7.48	9.25	8.63	8.31

(Double twin)

	FCQG60Fx4	FHQ60CAx4
Heating	9.88	9.43

SYMBOLS

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

Caution:

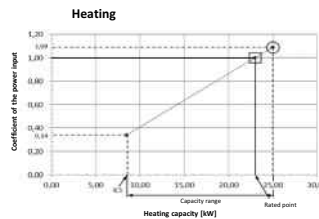
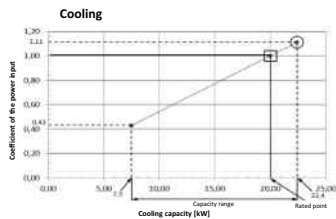
TC and SHC are shown by kW.

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6 Capacity tables

6 - 3 Cooling/Heating Capacity Tables

RZQ200C



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

Indoor	Outdoor temperature (°C DB)											
	25			30			35			40		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	—	—	—	—	—	—	—	—	—	—	—	—
16	20.2	17.0	0.82	19.4	16.3	0.90	18.6	15.5	0.98	17.7	14.8	1.06
18	21.3	17.1	0.83	20.4	16.4	0.91	19.5	15.7	0.99	18.6	14.9	1.07
19	21.8	17.1	0.84	20.9	16.4	0.92	20.0	15.6	1.00	19.1	14.9	1.08
20	22.3	17.1	0.84	21.4	16.4	0.92	20.5	15.6	1.01	19.6	14.9	1.09
22	23.4	17.0	0.85	22.4	16.3	0.94	21.4	15.6	1.02	20.5	14.9	1.10
24	24.4	16.8	0.86	23.4	16.1	0.95	22.4	15.4	1.03	21.4	14.7	1.12

Indoor	Outdoor temperature (°C WB)											
	-15			-10			-5			0		
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CWB	—	—	—	—	—	—	—	—	—	—	—	—
16	10.8	0.83	12.2	0.87	13.9	0.91	15.5	0.96	23.3	0.97	25.4	1.01
18	10.8	0.84	12.2	0.88	13.8	0.93	15.4	0.97	23.2	0.98	25.3	1.03
19	10.7	0.85	12.1	0.90	13.7	0.94	15.3	0.99	23.0	1.00	25.1	1.04
20	10.6	0.87	12.0	0.91	13.6	0.96	15.2	1.01	22.8	1.02	24.9	1.06
22	10.5	0.88	11.9	0.93	13.5	0.98	15.1	1.02	22.7	1.03	24.7	1.08

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

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

Pair	FRQ200
AFR	89
BF	(0.31)

Twin	FRQ200C x 2	FRQ1000 x 2
AFR	32 x 2	29 x 2
BF	(0.13 x 2)	(0.03 x 2)

Triple	FRQ200C x 3	FRQ200C x 3	FRQ171C x 3	FRQ200 x 3	FRQ171D x 3	FRQ200 x 3	FRQ171 x 3
AFR	14.5 x 3	18 x 3	18 x 3	18 x 3	16 x 3	16 x 3	16 x 3
BF	(0.11 x 3)	(0.15 x 3)	(0.08 x 3)	(0.15 x 3)	(0.12 x 3)	(0.12 x 3)	(0.12 x 3)

Double twin	FRQ200C x 4	FRQ200C x 4	FRQ200 x 4	FRQ1000 x 4	FRQ200 x 4
AFR	12.4 x 4	16 x 4	15 x 4	16 x 4	16 x 4
BF	(0.16 x 4)	(0.16 x 4)	(0.13 x 4)	(0.11 x 4)	(0.11 x 4)

Pair	FRQ200
Cooling	6.23
Heating	6.74

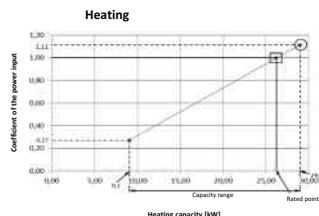
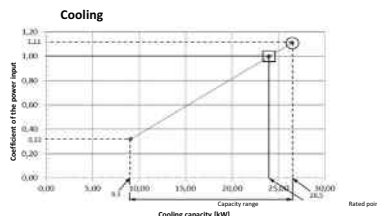
Twin	FRQ200C x 2	FRQ1000 x 2
Cooling	5.99	5.99
Heating	5.72	5.72

Triple	FRQ200C x 3	FRQ200C x 3	FRQ171C x 3	FRQ200 x 3	FRQ171D x 3	FRQ200 x 3	FRQ171 x 3
Cooling	6.46	6.31	6.31	6.31	6.31	6.31	6.31
Heating	6.36	6.05	6.05	6.05	6.05	6.05	6.05

Double twin	FRQ200C x 4	FRQ200C x 4	FRQ200 x 4	FRQ1000 x 4	FRQ200 x 4
Cooling	6.07	6.31	6.31	6.09	6.09
Heating	6.08	6.05	6.05	5.90	5.90

3TW29041-4C

RZQ250C



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

Indoor	Outdoor temperature (°C DB)											
	25			30			35			40		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	—	—	—	—	—	—	—	—	—	—	—	—
16	24.5	21.5	0.79	23.5	20.7	0.88	22.5	19.8	0.98	21.5	19.0	1.08
18	25.7	21.5	0.80	24.6	20.6	0.89	23.6	19.8	0.99	22.5	18.9	1.09
19	26.2	21.5	0.80	25.2	20.6	0.90	24.1	19.8	1.00	23.0	19.0	1.10
20	26.8	21.4	0.81	25.7	20.5	0.91	24.6	19.7	1.01	23.5	18.9	1.11
22	28.0	21.2	0.81	26.8	20.3	0.92	25.7	19.5	1.02	24.5	18.7	1.12
24	29.3	20.9	0.82	27.9	20.1	0.93	26.7	19.3	1.03	25.6	18.4	1.13

Indoor	Outdoor temperature (°C WB)											
	-15			-10			-5			0		
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CWB	—	—	—	—	—	—	—	—	—	—	—	—
16	13.2	0.77	14.7	0.82	16.6	0.87	18.4	0.91	26.9	0.92	29.2	0.98
18	13.1	0.80	14.6	0.85	16.4	0.90	18.2	0.95	26.6	0.96	28.9	1.02
20	12.9	0.84	14.5	0.88	16.3	0.94	18.0	0.99	26.4	1.00	28.7	1.06
22	12.8	0.87	14.3	0.92	16.1	0.97	17.9	1.03	26.2	1.04	28.4	1.10
24	12.7	0.90	14.2	0.95	16.0	1.01	17.7	1.06	25.9	1.08	28.2	1.14

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

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

Pair	FRQ250
AFR	89
BF	(0.34)

Twin	FRQ250C x 2	FRQ1250 x 2
AFR	39 x 2	34 x 2
BF	(0.14 x 2)	(0.06 x 2)

Double twin	FRQ250C x 4	FRQ250C x 4	FRQ250 x 4	FRQ1000 x 4	FRQ250 x 4
AFR	14.5 x 4	18 x 4	18 x 4	16 x 4	16 x 4
BF	(0.11 x 4)	(0.15 x 4)	(0.12 x 4)	(0.12 x 4)	(0.12 x 4)

Pair	FRQ250
Cooling	8.58
Heating	8.22

Twin	FRQ250C x 2	FRQ1250 x 2	FRQ1250 x 2
Cooling	8.98	8.98	8.98
Heating	7.38	7.38	7.38

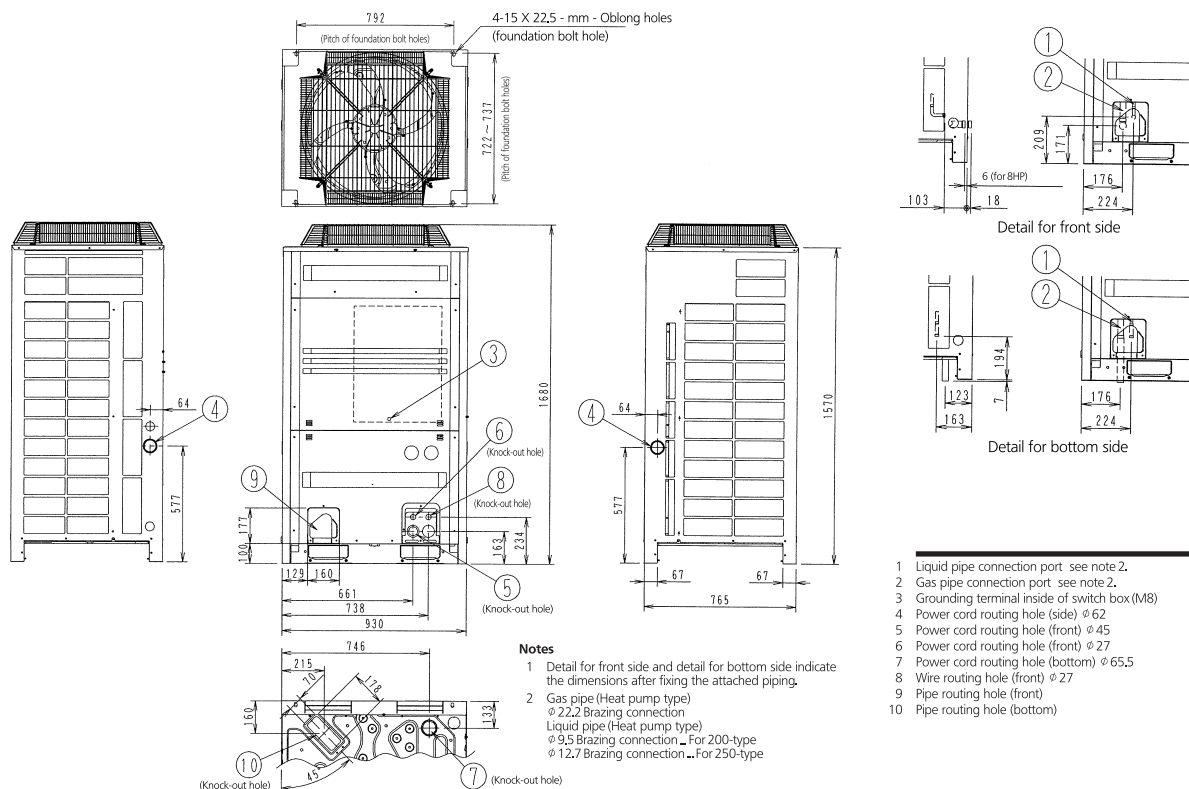
Double twin	FRQ250C x 4	FRQ250C x 4	FRQ250 x 4	FRQ1000 x 4	FRQ250 x 4
Cooling	8.64	8.64	8.64	8.35	8.35
Heating	8.05	7.80	7.80	8.46	8.46

3TW29051-4C

7 Dimensional drawings

7 - 1 Dimensional Drawings

RZQ200-250C



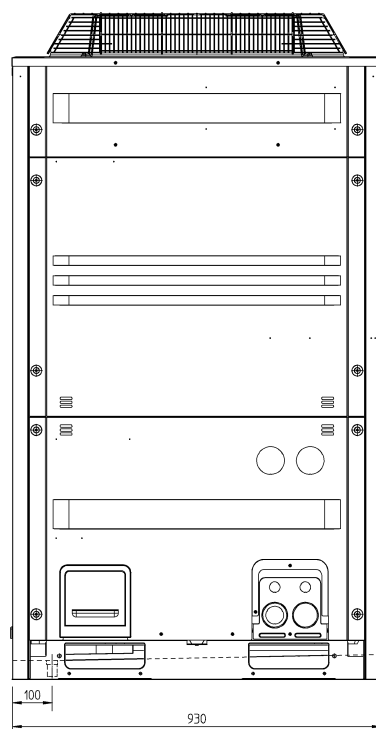
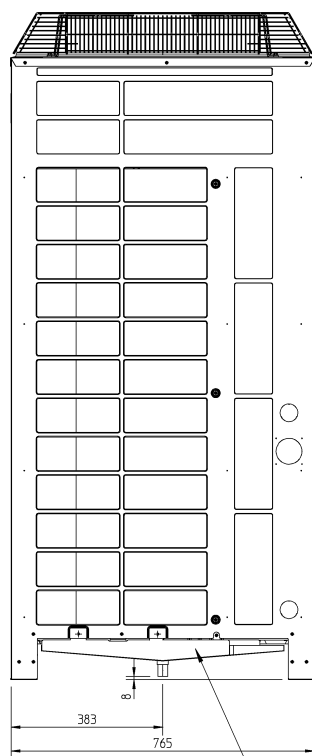
3TW29044-1

7 Dimensional drawings

7 - 2 Dimensional Drawings with Accessories

7

RZQ200-250C



NOTES

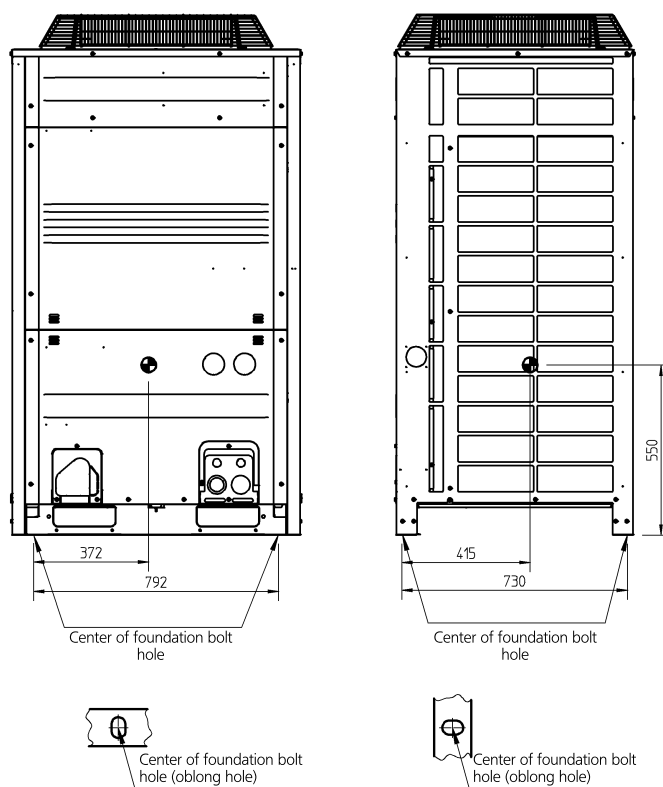
- 1 Central drain pan kit KWC26B280

3TW27244-1

8 Centre of gravity

8 - 1 Centre of Gravity

RZQ200-250C



4TW29049-4

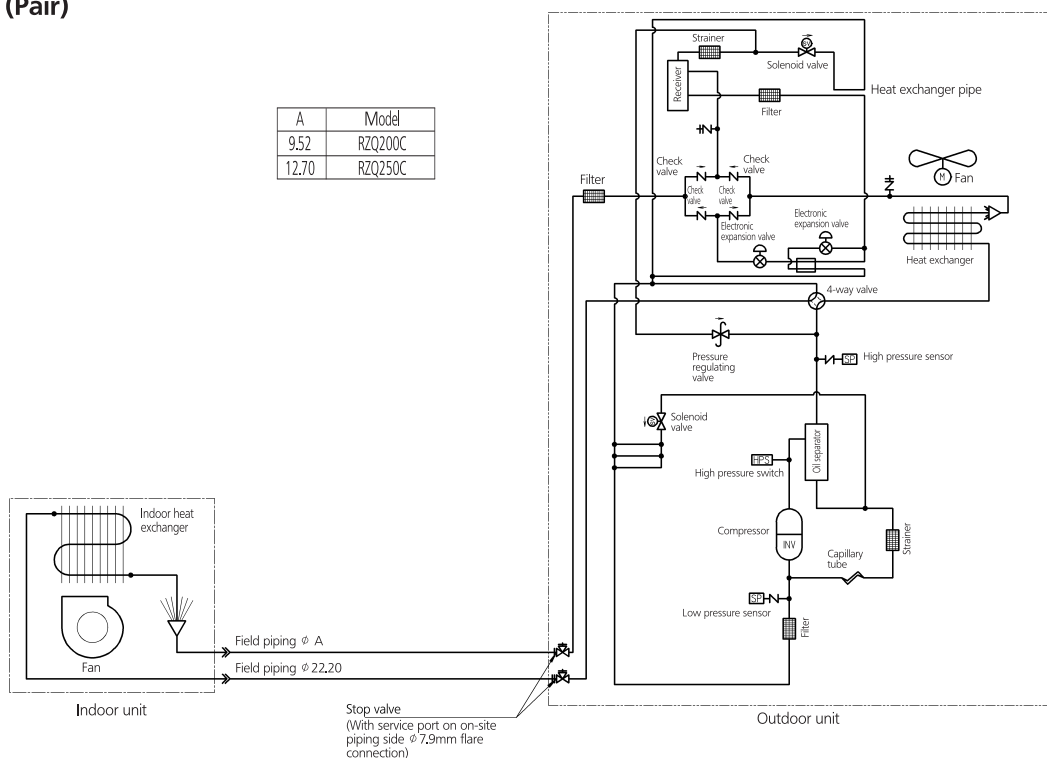
9 Piping diagrams

9 - 1 Piping Diagrams

9

RZQ200-250C (Pair)

A	Model
9.52	RZQ200C
12.70	RZQ250C



Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

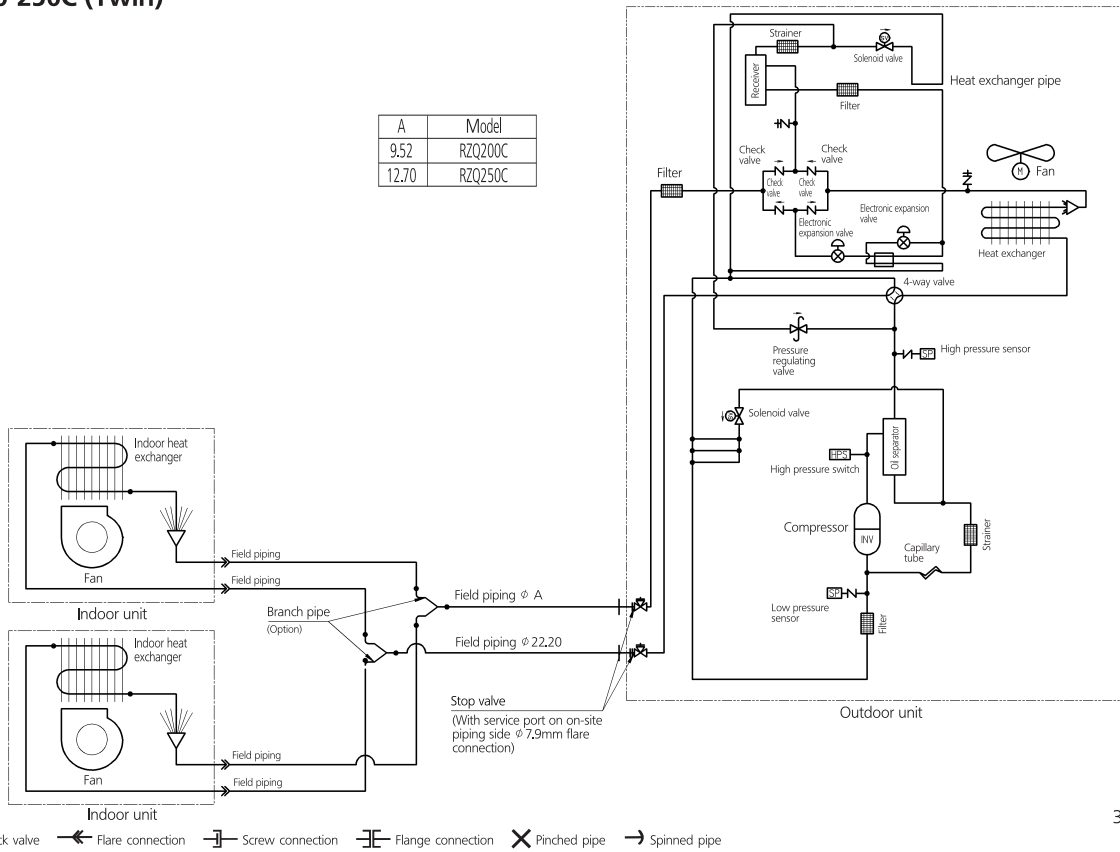
3TW29045-1

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZQ200-250C (Twin)

A	Model
9.52	RZQ200C
12.70	RZQ250C



3TW29045-2

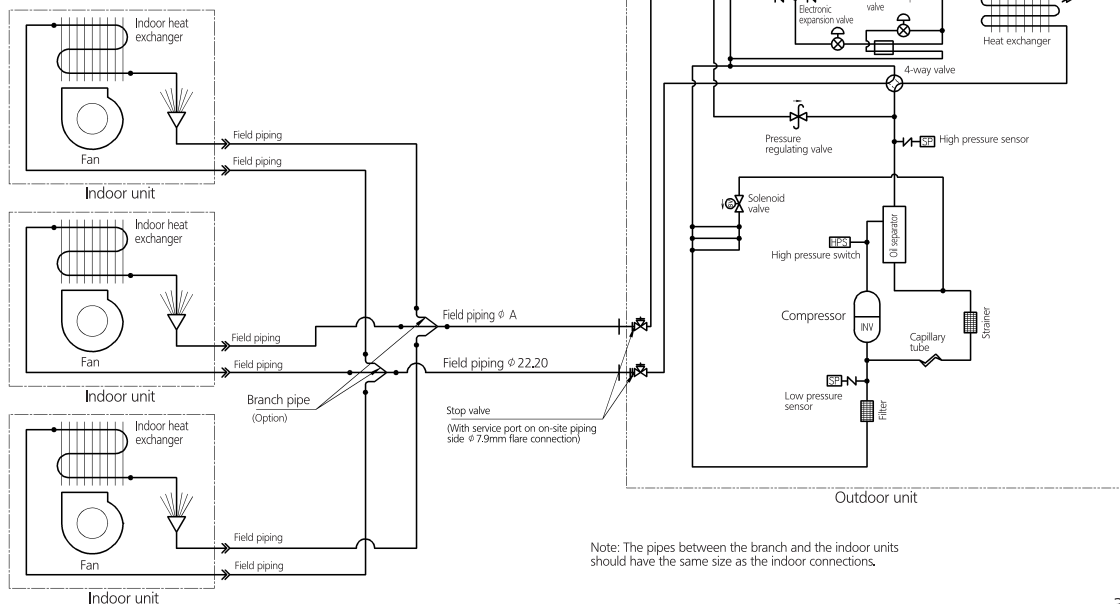
9 Piping diagrams

9 - 3 Piping Diagram Triple Application

9

RZQ200-250C (Triple)

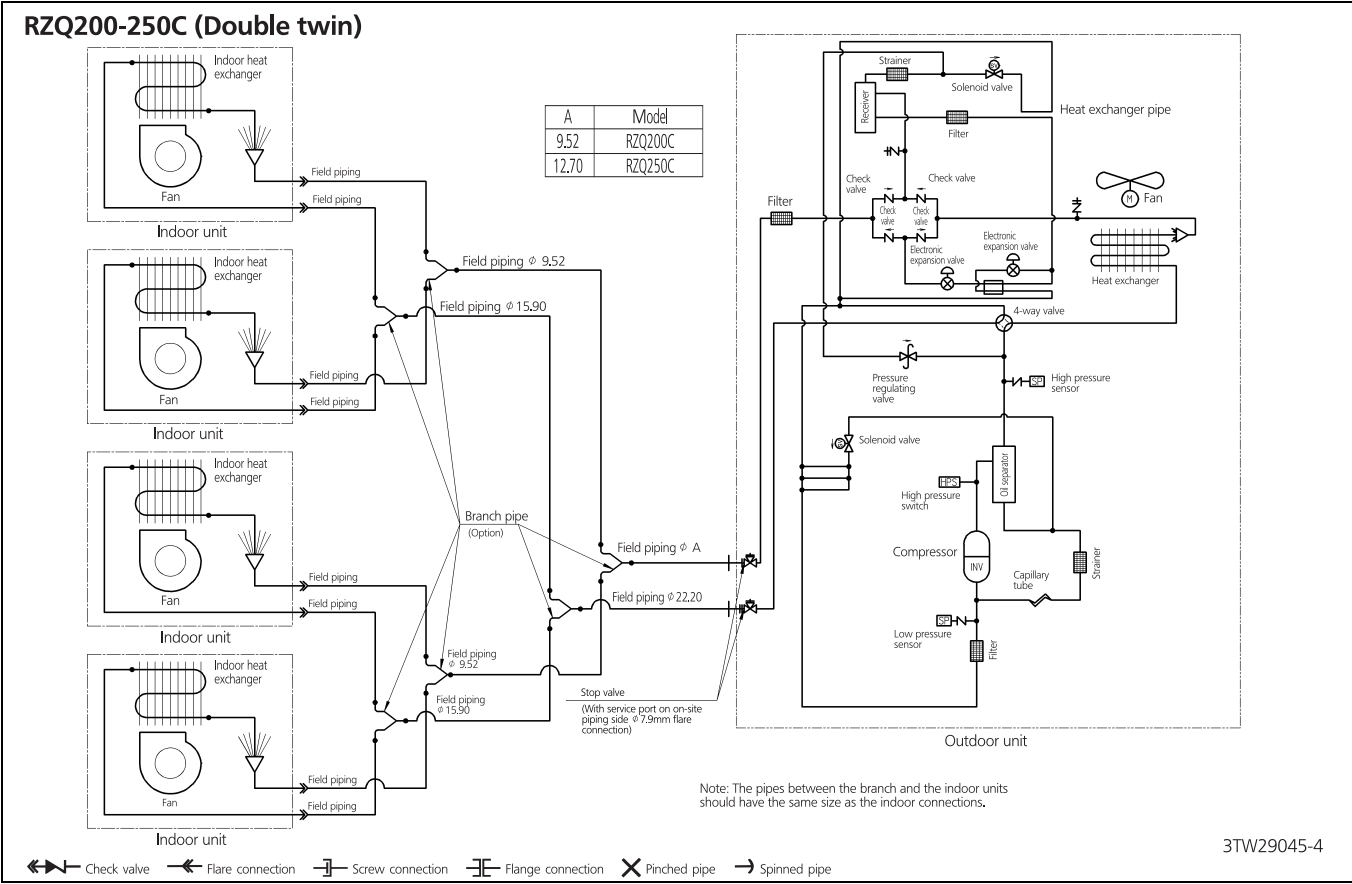
A	Model
9.52	RZQ200C
12.70	RZQ250C



3TW29045-3

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application



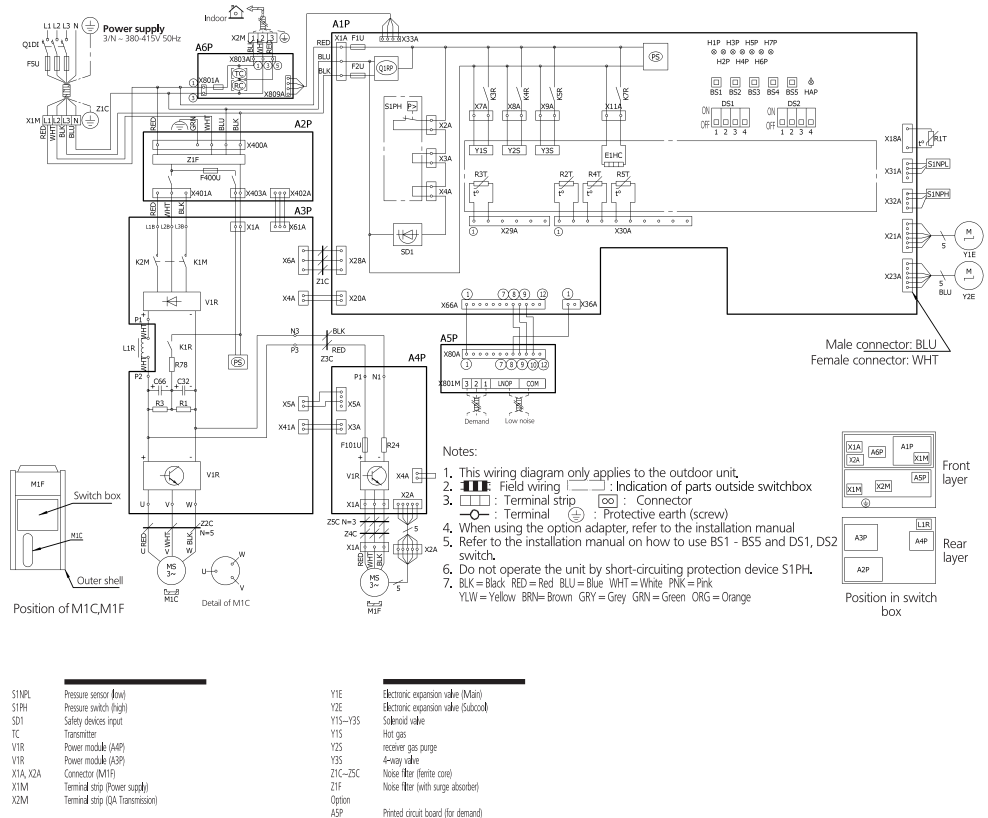
10 Wiring diagrams

10 - 1 Wiring Diagrams - Three Phase

RZQ-C

10

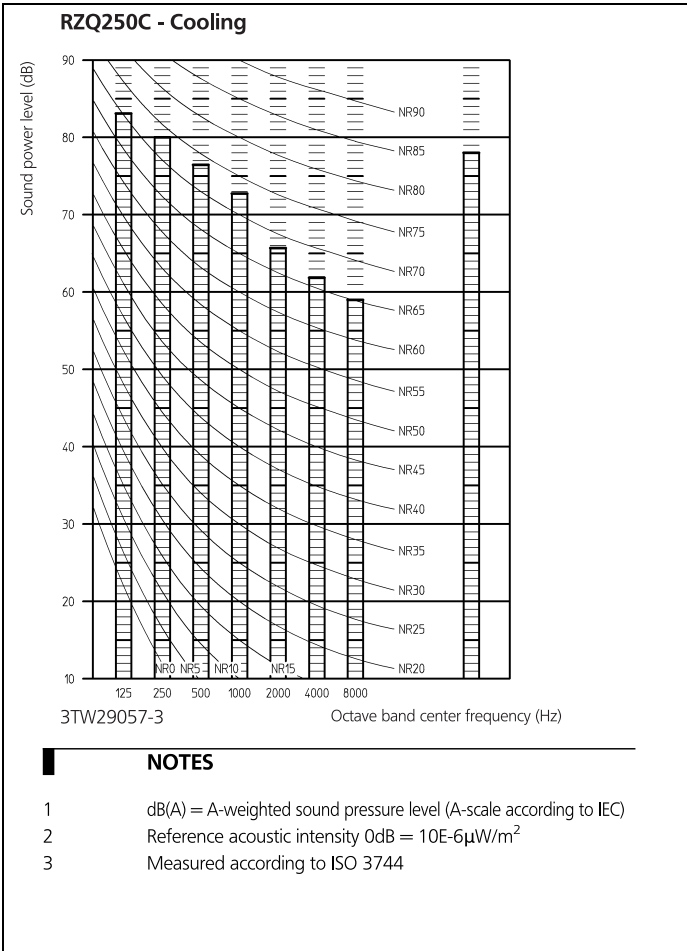
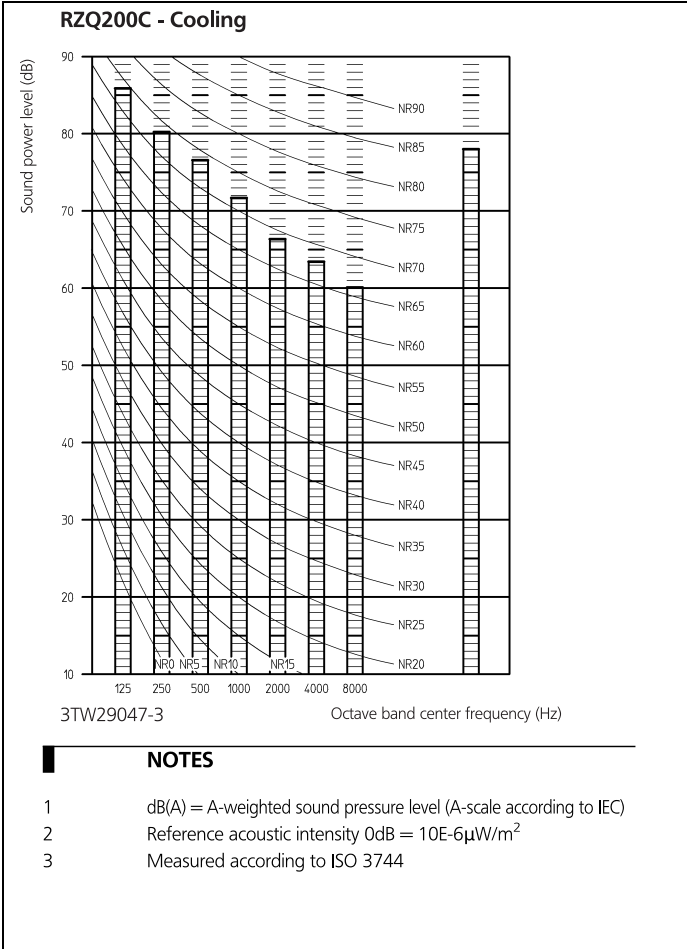
A1P~A6P	Printed circuit board
A1P	Main
A2P	Noise filter
A3P	Inverter
A4P	Fan
A5P	OA Transmission
B51~B55	Push button switch (Mode, set, return, test, reset)
C1	Capacitor
C63,C66	Dip switch
DS1,DS2	Crackcase heater
E1HC	Fuse (A4P)
F101U	Fuse (250V, 3.15A) (A1P)
F101U, F2U	Fuse (250V, 6.3A) (A2P)
F400U	Hot lamp (service monitor-orange)
H1P~H8P	Hot lamp (service monitor-green)
HAP	Hot lamp (service monitor-green)
K1R	Relay (M11Q) (A3P)
K1M, K2M	Magnetic contactor (M11Q) (A3P)
K3R~K7R	Magnetic relay
K8R	Y1S
K9R	Y2S
K10R	Y3S
K11R	E1HC
L1R	Reactor
M1C	Motor (Compressor)
M1F	Motor (Fan)
PS	Switching power supply (A1P, A3P)
Q1RP	Phase reversal detect circuit
Q1D	Earth leakage breaker
R24	Resistor (current sensor) (A4P)
R1, R3	Resistor
R7B	Resistor (current limiting)
R1T~R5T	Thermistor
R1T	Air (A1P)
R1T	Fan (A3P)
R2T	Suction
R3T	M1C Discharge
R4T	Heat exch. device
R5T	Sub. coil outlet
RC	Receiver
S1MPH	Pressure sensor (high)



2TW29046-1D

11 Sound data

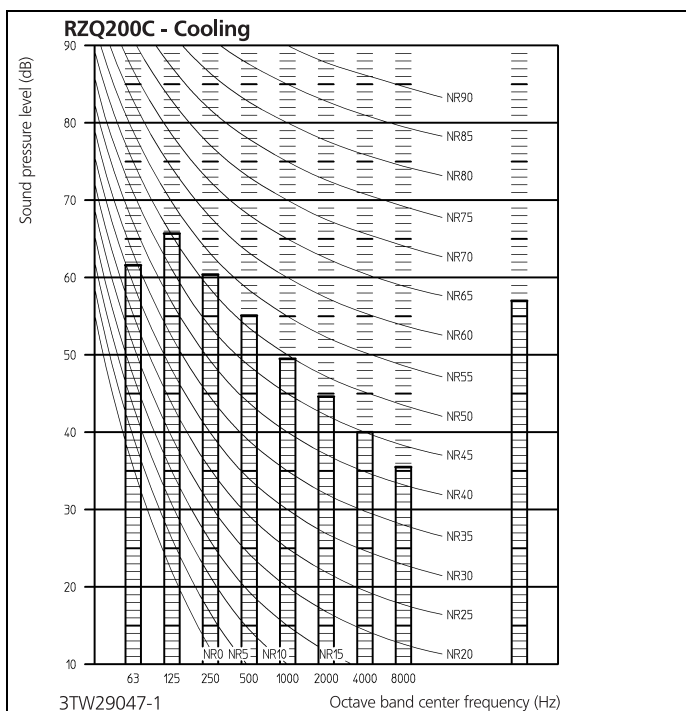
11 - 1 Sound Power Spectrum



11 Sound data

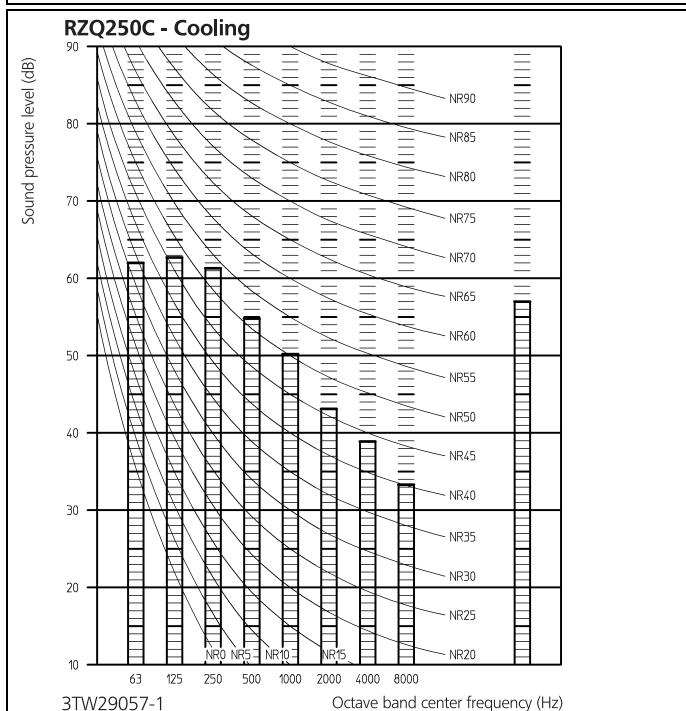
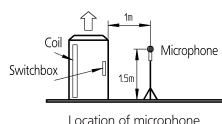
11 - 2 Sound Pressure Spectrum - Cooling

11



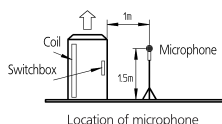
NOTES

- 1 Data is valid at free field condition (measured in a semi-anechoic room)
- 2 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 3 Reference acoustic pressure 0dB = 20Pa
- 4 If sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.
- 5 Curve for RZQ200C7Y1B in cooling mode



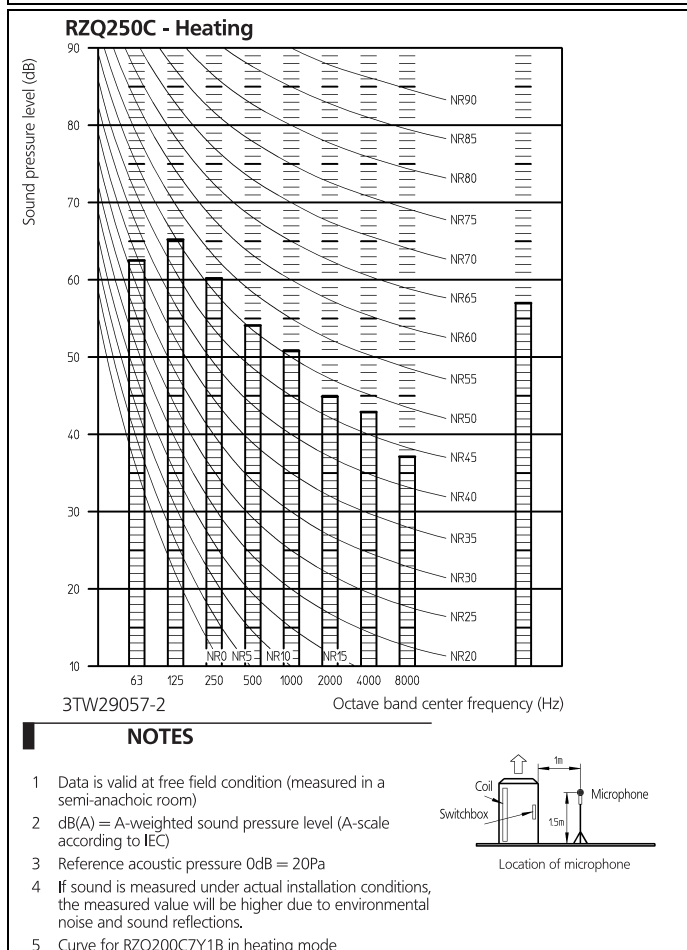
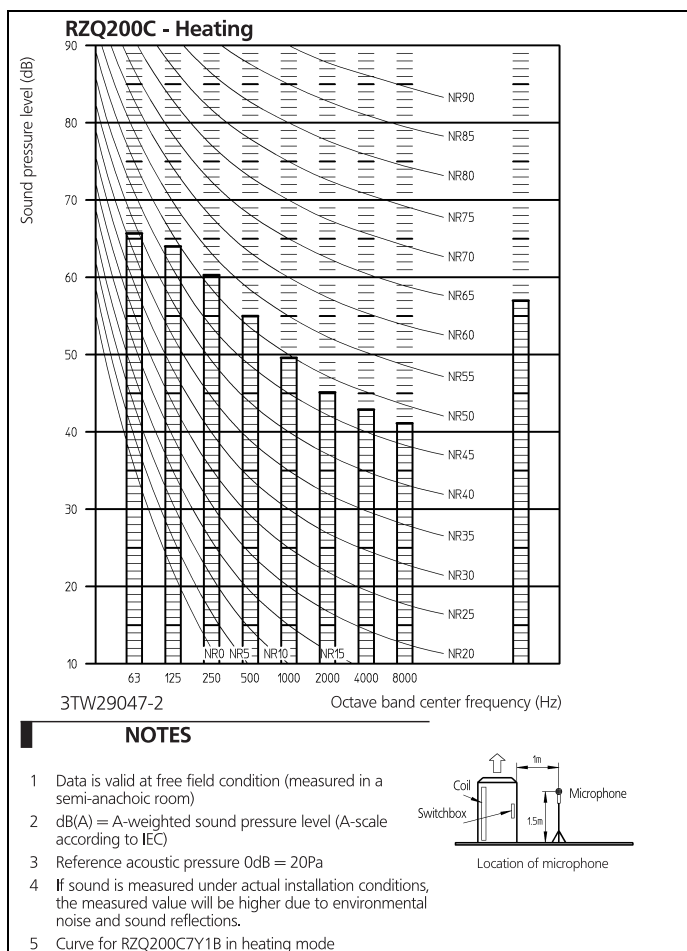
NOTES

- 1 Data is valid at free field condition (measured in a semi-anechoic room)
- 2 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 3 Reference acoustic pressure 0dB = 20Pa
- 4 If sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.
- 5 Curve for RZQ200C7Y1B in cooling mode



11 Sound data

11 - 3 Sound Pressure Spectrum - Heating



12 Installation

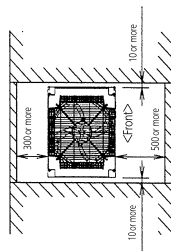
12 - 1 Installation Method

12

RZQ200-250C

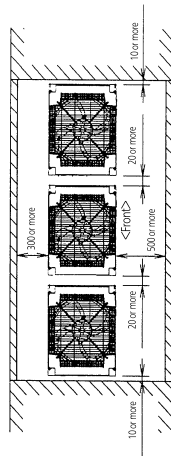
For single unit installation

<Pattern 1>



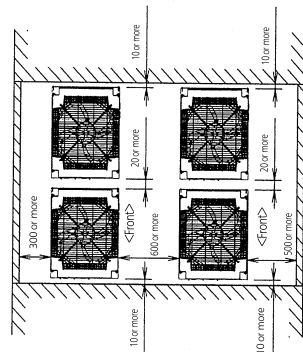
For installation in rows

<Pattern 1>

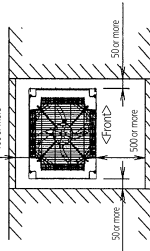


For centralized group layout

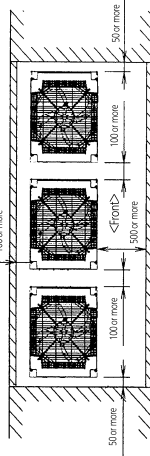
<Pattern 1>



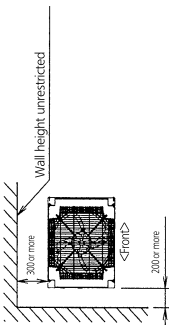
<Pattern 2>



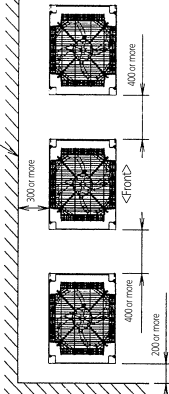
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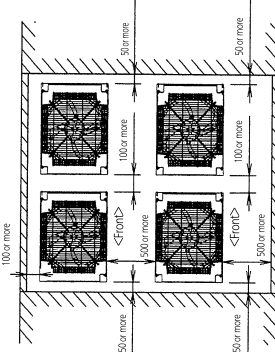
<Pattern 3>



Wall height unrestricted

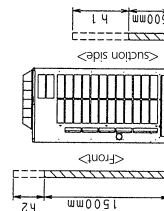


<Pattern 2>



Notes:

- Heights of walls in case of Patterns 1 and 2:
Front: 1500 mm
Suction side: 500 mm
Side: Height unrestricted.
Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.
- If the above wall heights are exceeded then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely.
(If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



3TW29049-3

12 Installation

12 - 2 Fixation and Foundation of Units

929

729

100

X

60

80

80

100

A

B

Drain ditch

(Smooth down grade of about 1/50)

Y ditch
Except SHP models

When building a foundation on the ground

When building a foundation on the concrete floor

Drain ditch

50

100

50

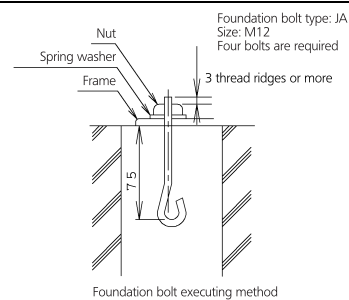
100

Floor

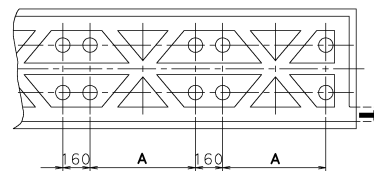
X - X Cross section

Model
RY05
RY5M
RY6M
RY05
RY07C
RY08
RY08-1
RY08-10
RY08
RY08
RY08
RY08
RY08

- 1 The proportions of cement: sand: gravel for the concrete shall be 1:2:4, and the reinforcement bars that their diameter are 10mm, (approx. 300mm intervals) shall be placed.
- 2 The surface shall be finished with mortar. The corner edges shall be chamfered.
- 3 When the foundation is built on a concrete floor, rubble is not necessary. However, the surface of the section on which the foundation is built shall have rough finish.
- 4 A drain ditch shall be made around the foundation to thoroughly drain water from the equipment installation area.
- 5 When installing the equipment on a roof, the floor strength shall be checked, and water-proofing measures shall be taken.
- 6 Y ditch is not necessary for 5HP models.



Foundation bolt executing method



When installing multiple units in connection

[illegible]

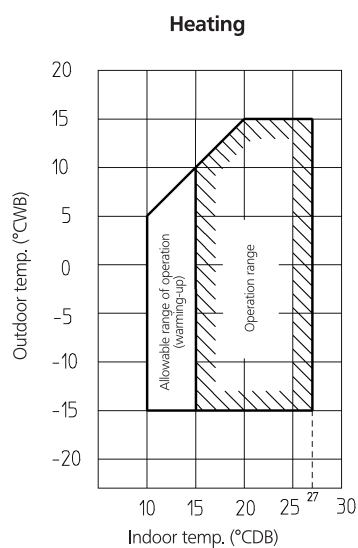
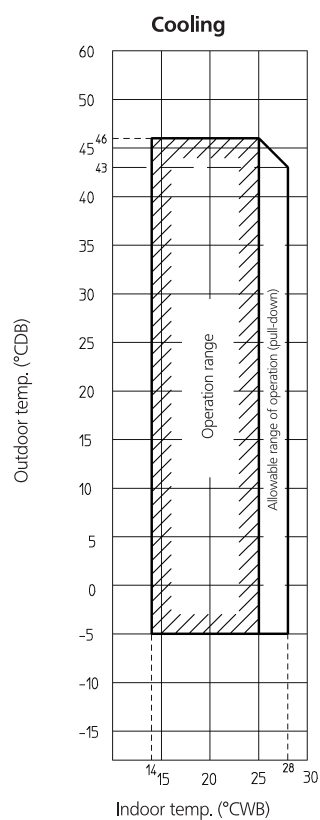
3D040102Z

13 Operation range

13 - 1 Operation Range

13

RZQ200-250C



4TW26566-1



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