



Air Conditioning Technical Data

Pair, Twin, triple, double twin



EEDEN13-100

RZQ-C

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RZQ-C

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1 Features

- Outdoor units for pair, twin, triple, double twin application
- The Sky Air inverter is developed for use in light commercial applications, provides a more comfortable environment and offers great savings in energy consumption to shop, restaurant and office owners
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- An inverter driven compressor allows the capacity to be adjusted precisely to match variations in room and outside temperatures
- During start up, the room can be cooled down or heated very quickly; once the temperature in the room has reached its set point, the low power operation starts to save energy.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Outdoor units are fitted with a scroll compressor, renowned for its low noise and high energy efficiency
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions



Inverter

2 Specifications

2-1 Nominal Capacity And Nominal 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)
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	

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	1,055			
		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			
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			

2 Specifications

2-2 Technical Specifications					RZQ200C		RZQ250C	
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	Nom.			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	
	Control				Electronic expansion valve			
	GWP				-			
	Circuits	Quantity			1			
Refrigerant oil	Type				Synthetic (ether) oil			
	Charged volume			l	2.0			
Piping connections	Drain	ID		mm	-			
	Piping length	OU - IU	Max.	m	100			
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01			High pressure switch			
		02			Fan driver overload protector			
		03			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	Zmax	List			No requirements	
	Recommended fuses			A	25	
Current - 50Hz	Maximum fuse amps (MFA)			A	-	
Current - 60Hz	Maximum fuse amps (MFA)			A	-	

2 Specifications

2-3 Electrical Specifications			RZQ200C	RZQ250C
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

- (1) Sound power level is an absolute value that a sound source generates.
- (2) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.
- (3) Sound values are measured in a semi-anechoic room.
- (4) Power supply to the FDQ indoor unit is separate
- (5) See separate drawing for electrical data

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
FCQ50B8V1	×4 RZQ200C7Y1B	50 - 400		17.8	-	20	-	14.7	0.75	0.7	0.045×4
FCQ60B8V1	×3 RZQ200C7Y1B	50 - 400		17.2	-	20	-	14.7	0.75	0.7	0.045×3
FCQ71B8V3B	×3 RZQ200C7Y1B	50 - 400		17.2	-	20	-	14.7	0.75	0.7	0.045×3
FCQ100B8V3B	×2 RZQ200C7Y1B	50 - 400		17.4	-	20	-	14.7	0.75	0.7	0.090×2
FCQ50C7VEB	×4 RZQ200C7Y1B	50 - 400		15.2	-	20	-	13.3	0.75	0.7	0.056×4
FCQ60C7VEB	×3 RZQ200C7Y1B	50 - 400		15.2	-	20	-	13.3	0.75	0.7	0.056×3
FCQ71C7VEB	×3 RZQ200C7Y1B	50 - 400		15.5	-	20	-	13.3	0.75	0.7	0.056×3
FCQ100C7VEB	×2 RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.120×2
FFQ50B7V1	×4 RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.055×4
FFQ60B7V1	×3 RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.055×3
FBQ50B7V1	×4 RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.085×4
FBQ60B7V1	×3 RZQ200C7Y1B	50 - 400		16.7	-	25	-	13.3	0.75	0.7	0.125×3
FBQ71B7V3B	×3 RZQ200C7Y1B	50 - 400		16.7	-	25	-	13.3	0.75	0.7	0.125×3
FBQ100B7V3B	×2 RZQ200C7Y1B	50 - 400		16.0	-	20	-	13.3	0.75	0.7	0.135×2
FHQ50B7V1	×4 RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4
FHQ60B7V1	×3 RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3
FHQ71B7V1	×3 RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3
FHQ100B7V1	×2 RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2
FQ71B7V1	×3 RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.045×3
FQ100B7V1	×2 RZQ200C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.090×2
FAQ71B7V1	×3 RZQ200C7Y1B	50 - 400		14.9	-	20	-	13.3	0.75	0.7	0.043×3
FAQ100B7V1	×2 RZQ200C7Y1B	50 - 400		14.8	-	20	-	13.3	0.75	0.7	0.049×2
FDQ200B7V3B	RZQ200C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	0.650
FCQ60B8V1	×4 RZQ250C7Y1B	50 - 400		17.8	-	20	-	14.7	0.75	0.7	0.045×4
FCQ125B8V3B	×2 RZQ250C7Y1B	50 - 400		17.4	-	20	-	14.7	0.75	0.7	0.090×2
FCQ60C7VEB	×4 RZQ250C7Y1B	50 - 400		15.6	-	20	-	13.3	0.75	0.7	0.056×4
FCQ125C7VEB	×2 RZQ250C7Y1B	50 - 400		16.0	-	20	-	13.3	0.75	0.7	0.120×2
FFQ60B7V1	×4 RZQ250C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.055×4
FBQ60B7V1	×4 RZQ250C7Y1B	50 - 400		17.6	-	25	-	13.3	0.75	0.7	0.125×4
FBQ125B7V3B	×2 RZQ250C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.225×2
FHQ60B7V1	×4 RZQ250C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4
FHQ125B7V1	×2 RZQ250C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2
FQ125B7V1	×2 RZQ250C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.090×2
FDQ125B7V3B	×2 RZQ250C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	0.500×2
FDQ250B7V3B	RZQ250C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	1.000
FCQHG1FVEB	×3 RZQ200C7Y1B	50 - 400		17.3	-	20	-	13.3	0.75	0.7	0.091×3
FCQHG100FVEB	×2 RZQ200C7Y1B	50 - 400		18.7	-	20	-	13.3	0.75	0.7	0.221×2
FCQ650FVEB	×4 RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.039×4
FCQ60FVEB	×3 RZQ200C7Y1B	50 - 400		16.5	-	20	-	13.3	0.75	0.7	0.044×3
FCQ671FVEB	×3 RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3
FCQ100FVEB	×2 RZQ200C7Y1B	50 - 400		17.2	-	20	-	13.3	0.75	0.7	0.117×2
FHQ50CAVEB	×4 RZQ200C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.060×4
FHQ60CAVEB	×3 RZQ200C7Y1B	50 - 400		17.3	-	20	-	13.3	0.75	0.7	0.091×3
FHQ71CAVEB	×3 RZQ200C7Y1B	50 - 400		18.4	-	20	-	13.3	0.75	0.7	0.091×3
FHQ100CAVEB	×2 RZQ200C7Y1B	50 - 400		18.4	-	20	-	13.3	0.75	0.7	0.150×2
FQ71C7VEB	×3 RZQ200C7Y1B	50 - 400		18.0	-	20	-	13.3	0.75	0.7	0.046×3
FQ100C7VEB	×2 RZQ200C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.106×2
FAQ71C7VEB	×3 RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3
FAQ100C7VEB	×2 RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.064×2
FCQHG125FVEB	×2 RZQ250C7Y1B	50 - 400		18.9	-	20	-	13.3	0.75	0.7	0.224×2
FCQ660FVEB	×4 RZQ250C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.044×4
FCQ6125FVEB	×2 RZQ250C7Y1B	50 - 400		18.2	-	20	-	13.3	0.75	0.7	0.106×2
FHQ60CAVEB	×4 RZQ250C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.091×4
FHQ125CAVEB	×2 RZQ250C7Y1B	50 - 400		19.4	-	20	-	13.3	0.75	0.7	0.150×2
FQ125C7VEB	×2 RZQ250C7Y1B	50 - 400		18.2	-	20	-	13.3	0.75	0.7	0.106×2

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)

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3 Electrical data

3 - 1 Electrical Data

RZQ200-250C

Unit combination		Power supply				Comp.	OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RLA	W	FLA	W	FLA
FBQ100C7VEB x 2	RZQ200C7Y1B	50 - 400	Max. 50Hz 440V Min. 50Hz 360V	17.2	20	13.3	750	0,7	350x2	1,6x2
FBQ71C7VEB x 3				17.3					350x3	1,1x3
FBQ60C7VEB x 3				17.3					350x3	1,1x3
FBQ50C7VEB x 4				18.4					140x4	1,1x4
FBQ125C7VEB x 2	RZQ250C7Y1B			18.2					350x2	2,1x2
FBQ60C7VEB x 4				18.4					350x4	1,1x4

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SYMBOLS

MCA	: Min. Circuit Amps (A)
MFA	: Max. Fuse Amps (See note 4) (A)
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor (A)
IFM	: Indoor Fan Motor
FLA	: Full Load Amps
kW	: Fan Motor Rated Output (W)

NOTES

- 1 RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB
- 2 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
- 3 Maximum allowable voltage unbalance between phases is 2%
- 4 MCA represents maximum input current, MFA represents capacity which may accept MCA (next lower standard fuse rating, min.15A)
- 5 Select wire size based on the larger value of MCA.
- 6 MFA is used to select the circuit breaker and earth leakage circuit breaker

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	-

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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	

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5 Combination table

5 - 1 Combination Table

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

Outdoor models	Possible indoor combination		
	Simultaneous operation		
	Twin	Triple	Double twin
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)

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NOTES

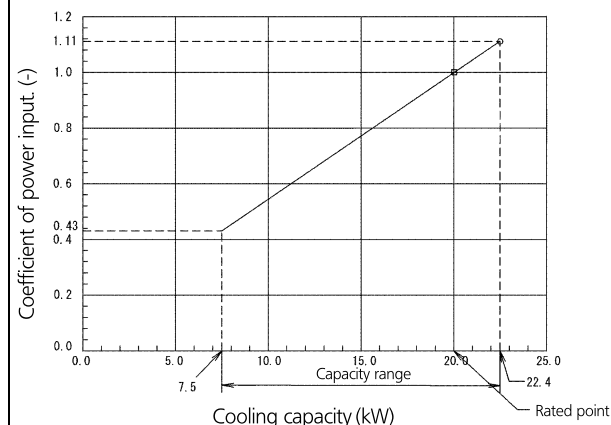
- 1 Possible indoor units: FCQ50-125, FFQ50,60, FHQ50-125, FBQ50-125, FAQ71,100, FUQ71-125, FDQ125
- 2 Individual indoor capacities are not given because the combinations are for simultaneous operation (⇒ indoor units installed in same room).
- 3 No mix of different indoor types within the same installation is allowed.
- 4 Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQ200C

Cooling



Cooling

Indoor °CWB	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 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)

	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

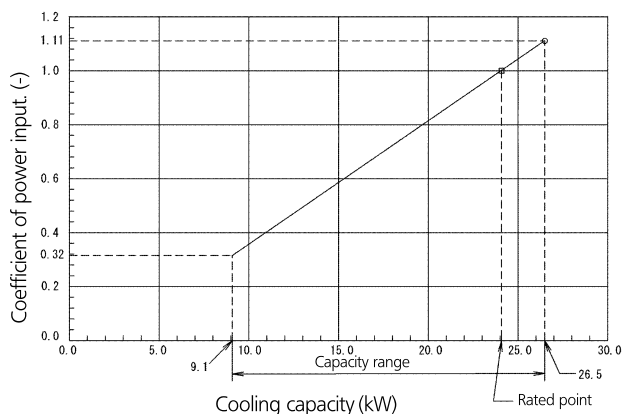
3D080226

6 Capacity tables

6 - 1 Cooling Capacity Tables

RZQ250C

Cooling



Cooling

Indoor	Outdoor temperature (°CDB)											
	25			30			35			40		
°CWB	TC (kW)	SHC (kW)	CPI	TC (kW)	SHC (kW)	CPI	TC (kW)	SHC (kW)	CPI	TC (kW)	SHC (kW)	CPI
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 (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.

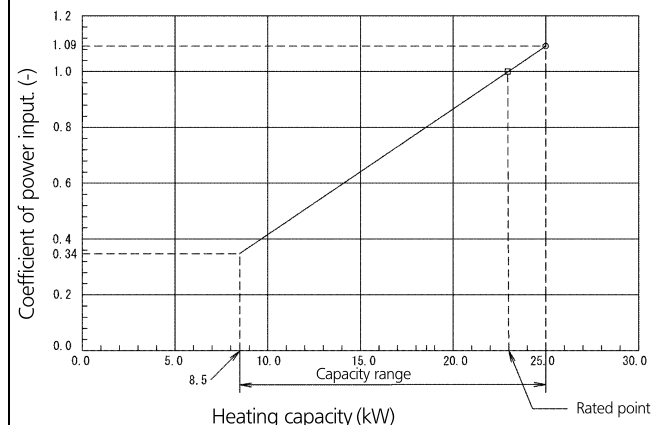
3D080227

6 Capacity tables

6 - 2 Heating Capacity Tables

RZQ200C

Heating



Heating

Indoor	Outdoor temperature (°CDB)											
	-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 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)

	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

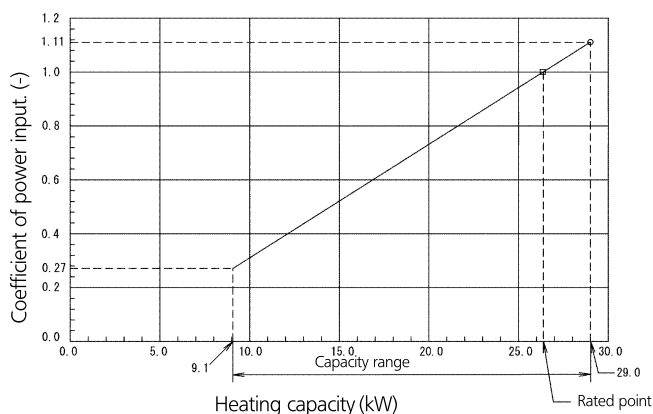
3D080226

6 Capacity tables

6 - 2 Heating Capacity Tables

RZQ250C

Heating



Heating

Indoor	Outdoor temperature (°CDB)											
	-15		-10		-5		0		6		10	
°CWB	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.

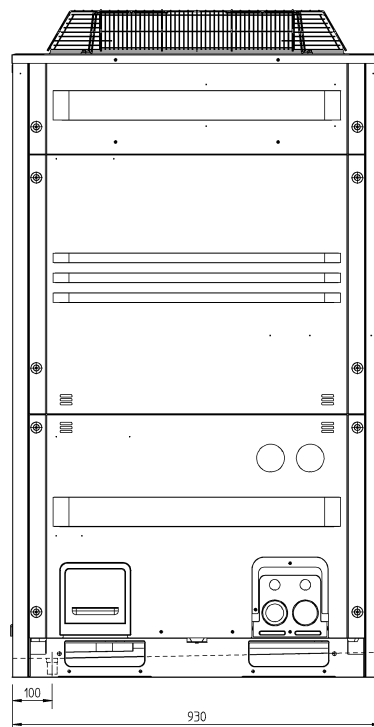
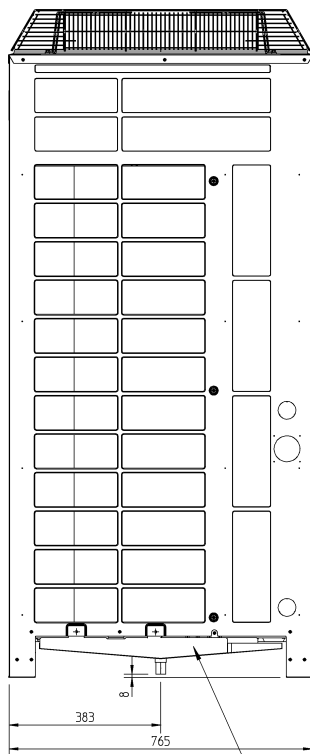
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7 Dimensional drawings

7 - 2 Dimensional Drawings with Accessories

7

RZQ200-250C



NOTES

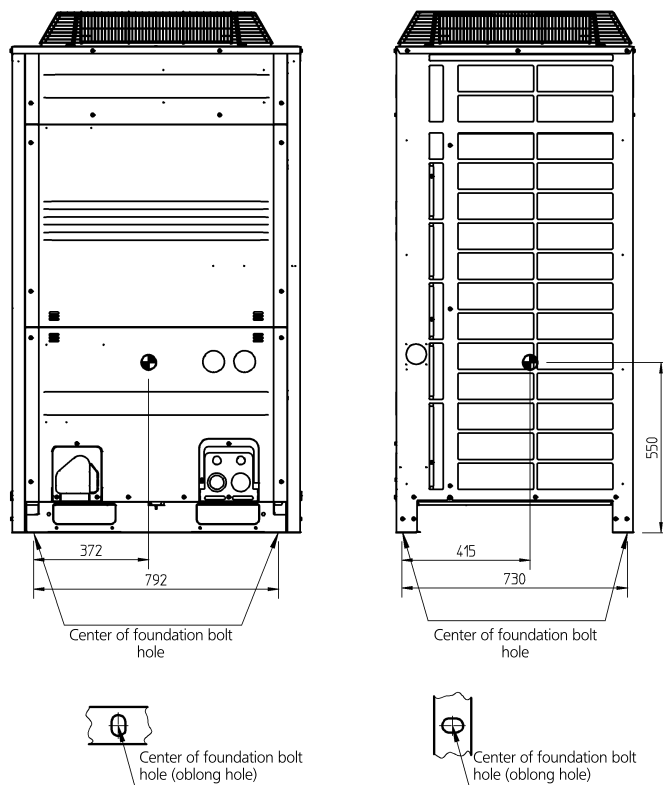
- 1 Central drain pan kit KWC26B280

3TW27244-1

8 Centre of gravity

8 - 1 Centre of Gravity

RZQ200-250C



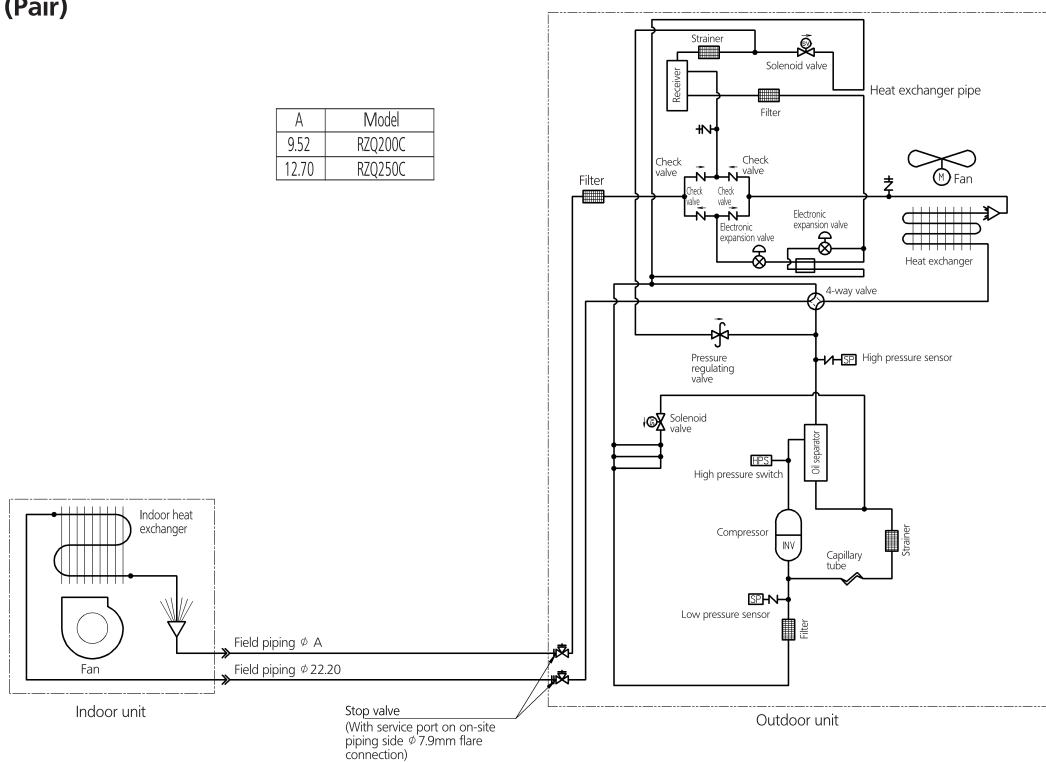
4TW29049-4

9 Piping diagrams

9 - 1 Piping Diagrams

RZQ200-250C (Pair)

A	Model
9.52	RZQ200C
12.70	RZQ250C



3TW29045-1

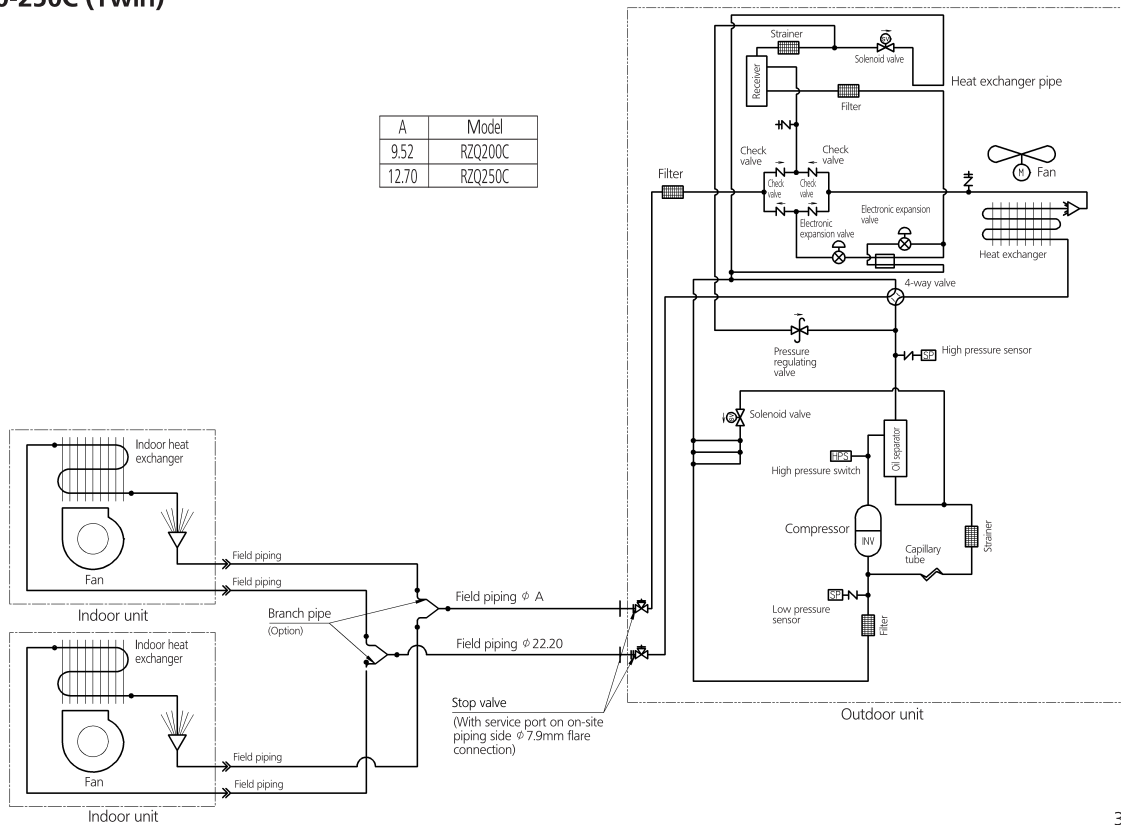
Check valve
 Flare connection
 Screw connection
 Flange connection
 Pinched pipe
 Spinned pipe

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZQ200-250C (Twin)

A	Model
9.52	RZQ200C
12.70	RZQ250C

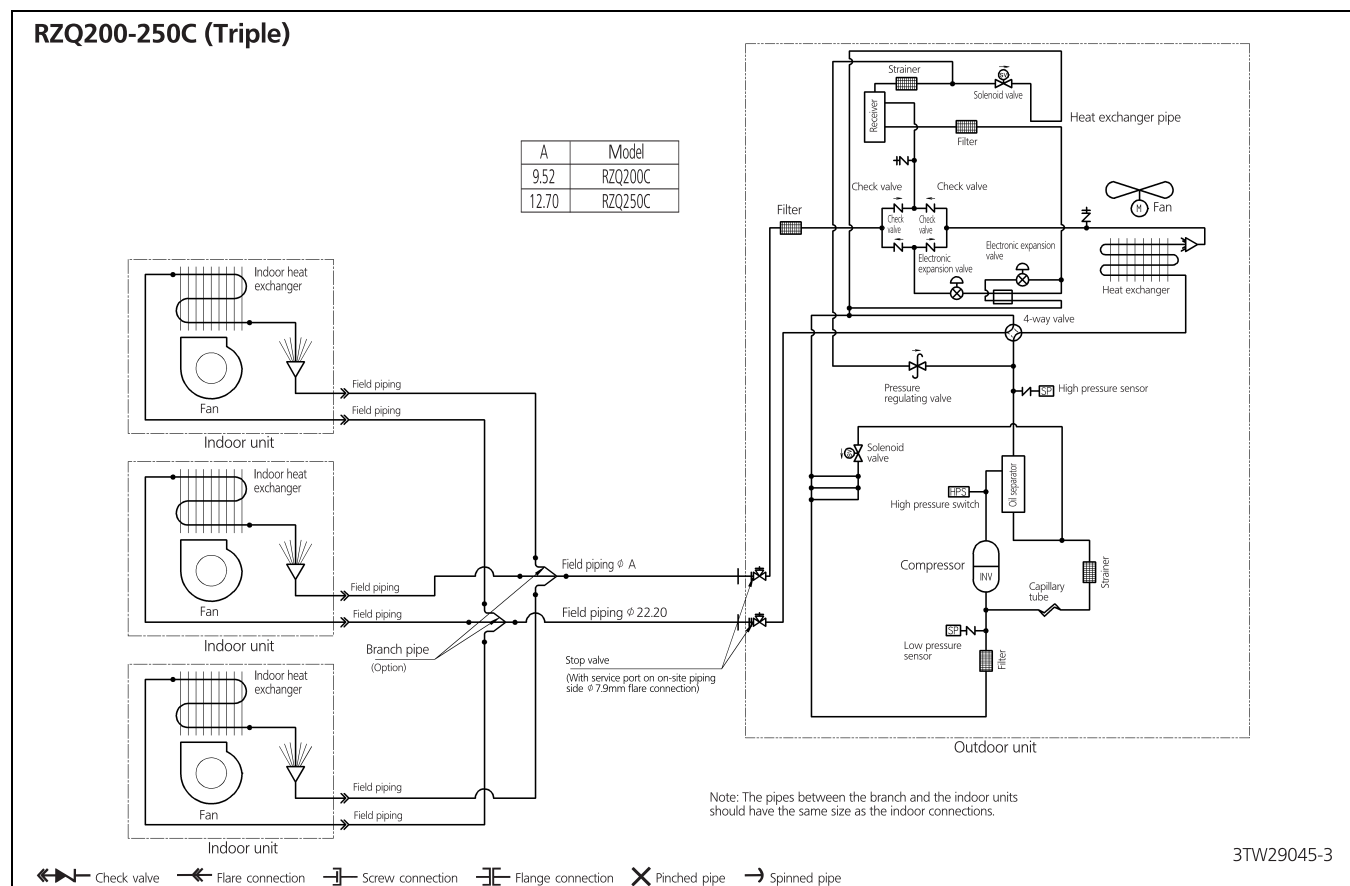


Check valve
 Flare connection
 Screw connection
 Flange connection
 Pinched pipe
 Spinned pipe

3TW29045-2

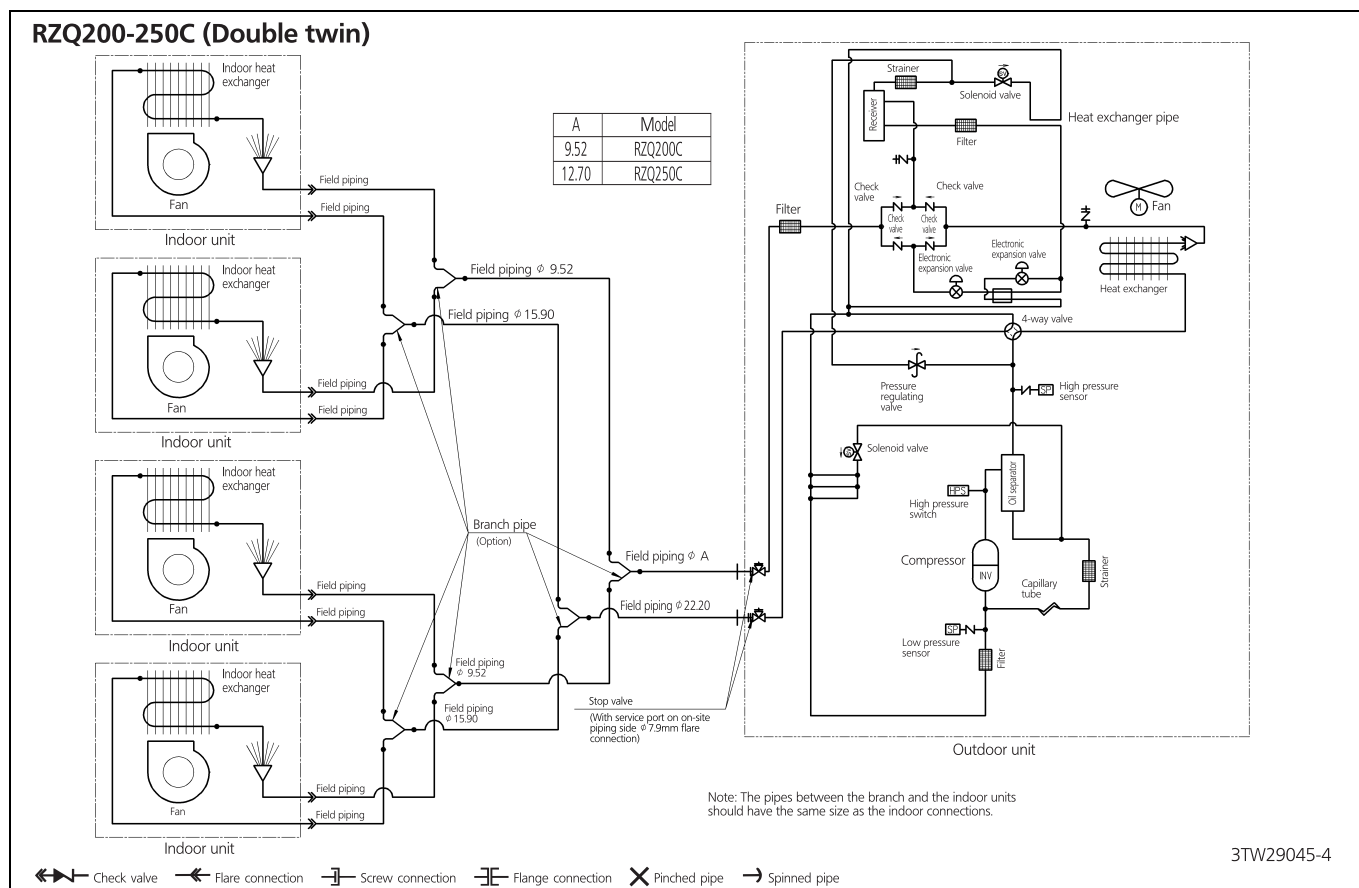
9 Piping diagrams

9 - 3 Piping Diagram Triple Application



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application



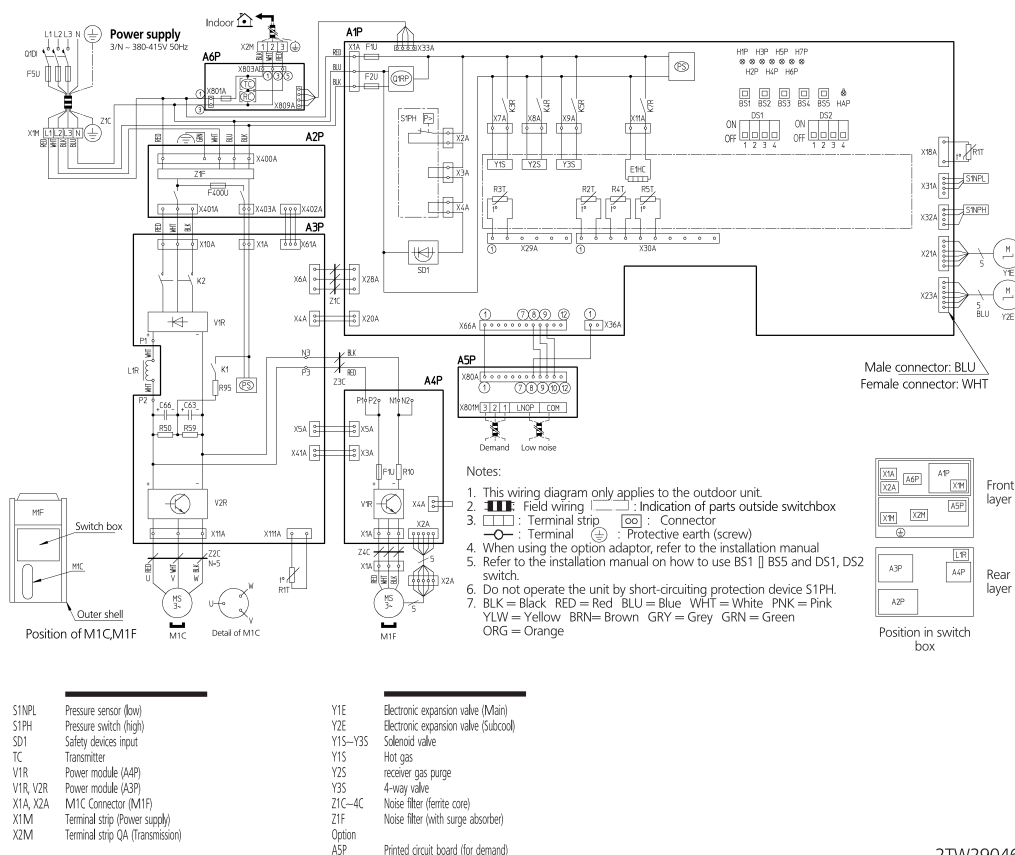
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZQ-C

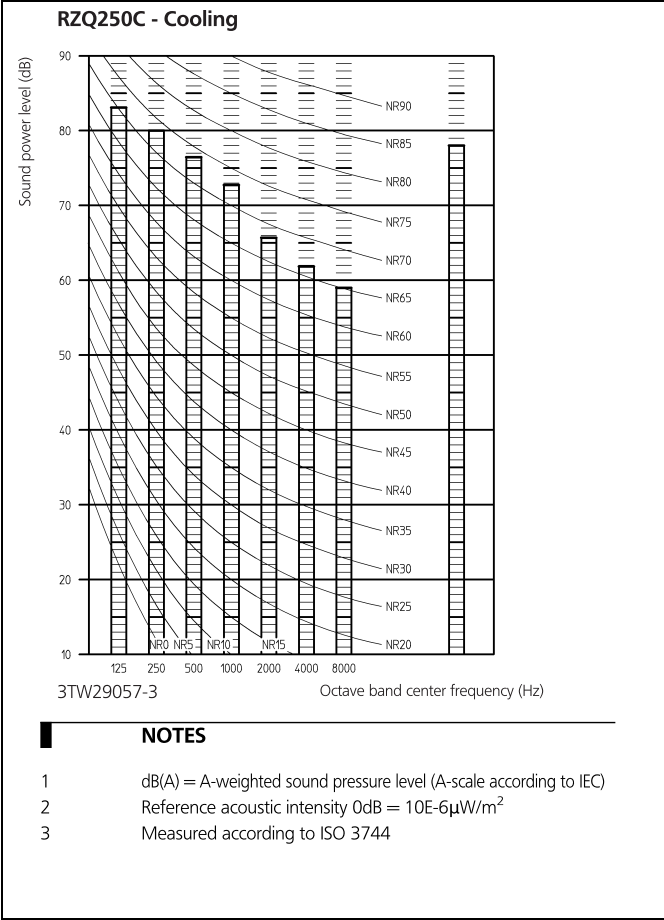
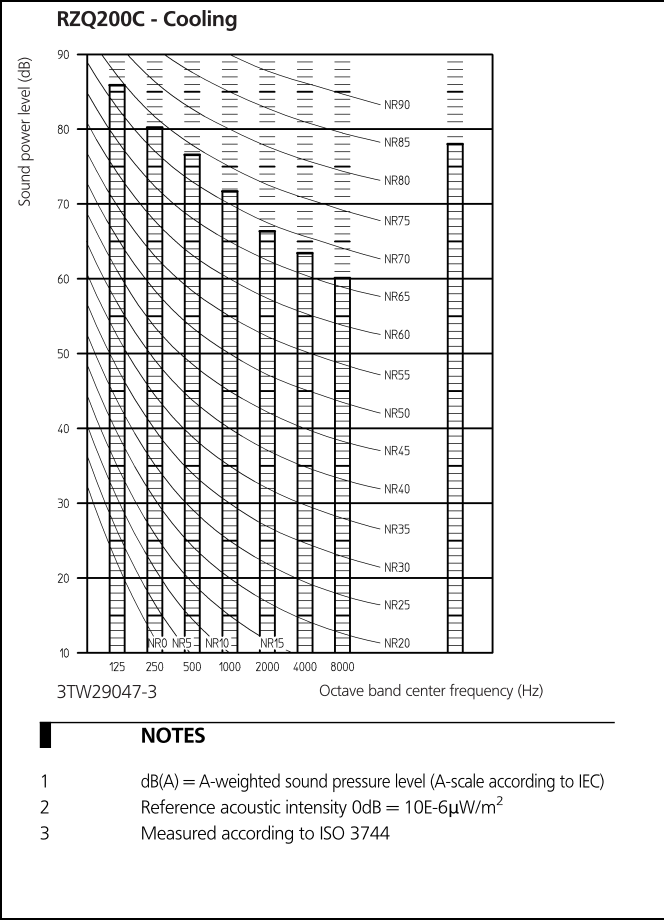
10

A1P~A6P	Printed circuit board
A1P	Main
A2P	Noise filter
A3P	Inverter
A4P	Fan
A6P	QA Transmission
B51~B55	Push button switch (Mode, set, return, test, reset)
C1	Capacitor
C63, C66	Capacitor
DS1, DS2	Dip switch
E1HC	Crankcase heater
F1U	Fuse (DC650V, 8A) (A4P)
F1U, F2U	Fuse (250V, 3.15A) (A1P)
F400U	Fuse (250V, 6.3A) (A2P)
H1P~H8P	Pilot lamp (service monitor-orange) (H2P) Prepare test-----Fllickering Malfunction detection-----Light up Pilotlamp (service monitor - green)
HAP	Magnetic relay
K1	Magnetic contactor (M1C)
K2	Magnetic relay
K3R~K7R	Magnetic relay
K3R	Y1S
K4R	Y2S
K5R	Y3S
K7R	E1HC
L1R	Reactor
M1C	Motor (Compressor)
M1F	Motor (Fan)
PS	Switching power supply (A1P, A3P)
Q1RP	Phase reversal detect circuit
Q1DI	Earth leakage breaker
R10	Resistor (current sensor) (A4P)
R50, R59	Resistor
R95	Resistor (current limiting)
R1T~R5T	Thermistor
R1T	Air (A1P)
R1T	Fin (A3P)
R2T	Suction
R3T	M1C Discharge
R4T	Heat exch. deicer
R5T	Sub cool outlet
RC	Receiver
S1NPH	Pressure sensor (high)



11 Sound data

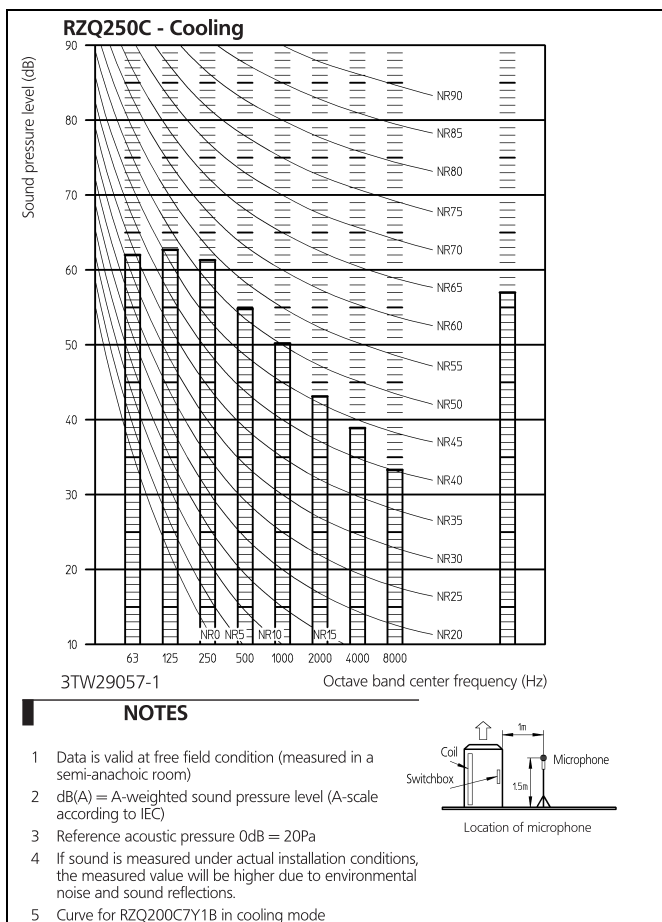
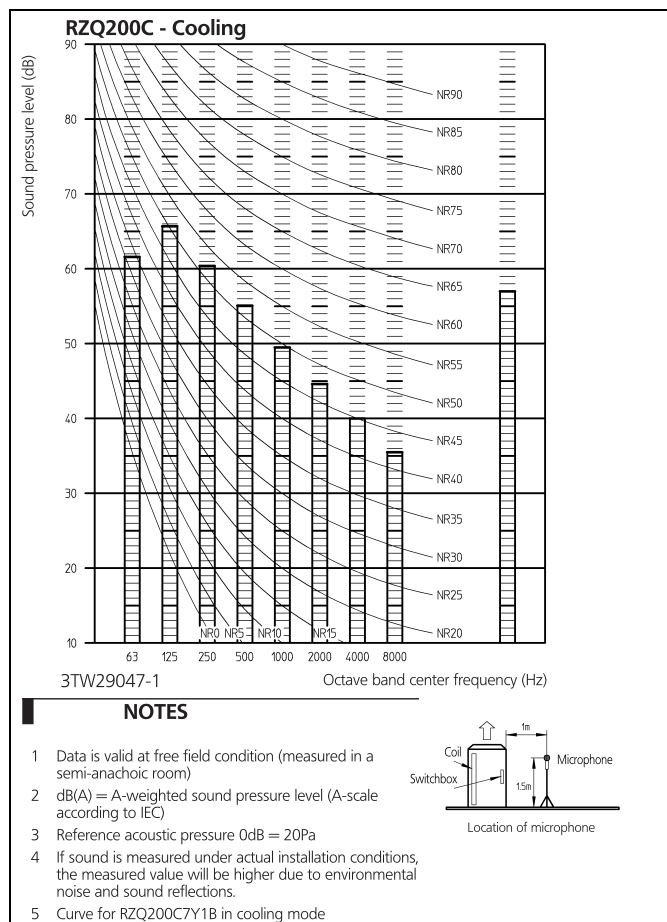
11 - 1 Sound Power Spectrum



11 Sound data

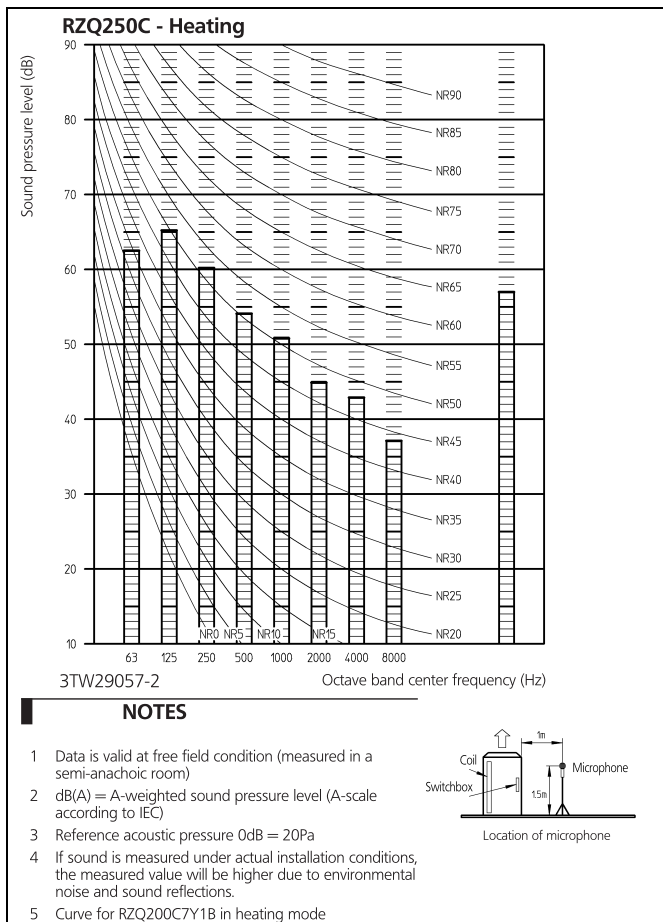
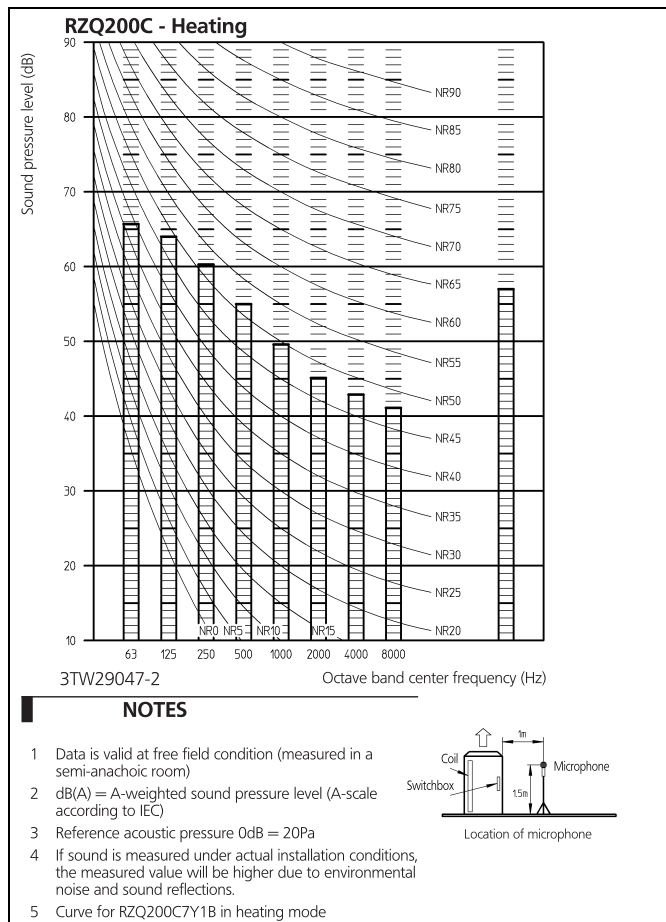
11 - 2 Sound Pressure Spectrum - Cooling

11



11 Sound data

11 - 3 Sound Pressure Spectrum - Heating



12 Installation

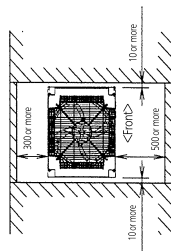
12 - 1 Installation Method

12

RZQ200-250C

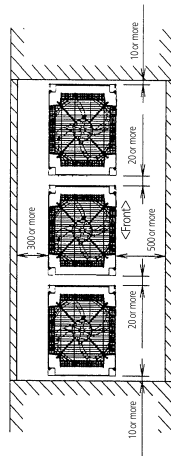
For single unit installation

<Pattern 1>



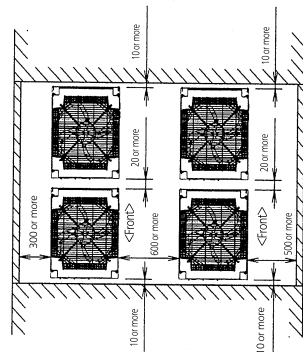
For installation in rows

<Pattern 1>

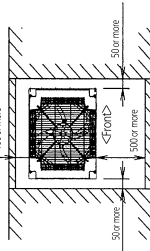


For centralized group layout

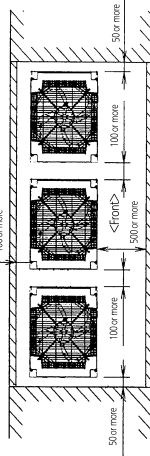
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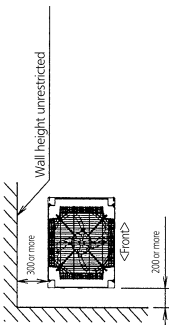
<Pattern 2>



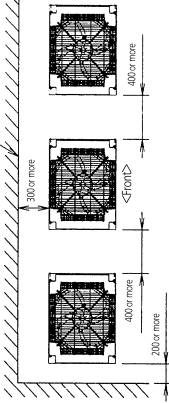
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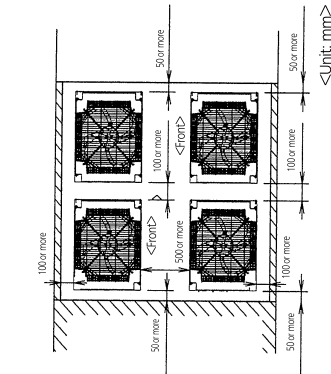
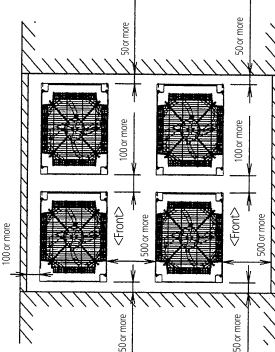
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Wall height unrestricted

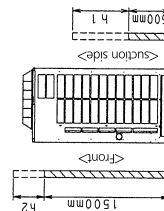


<Pattern 2>



Notes:

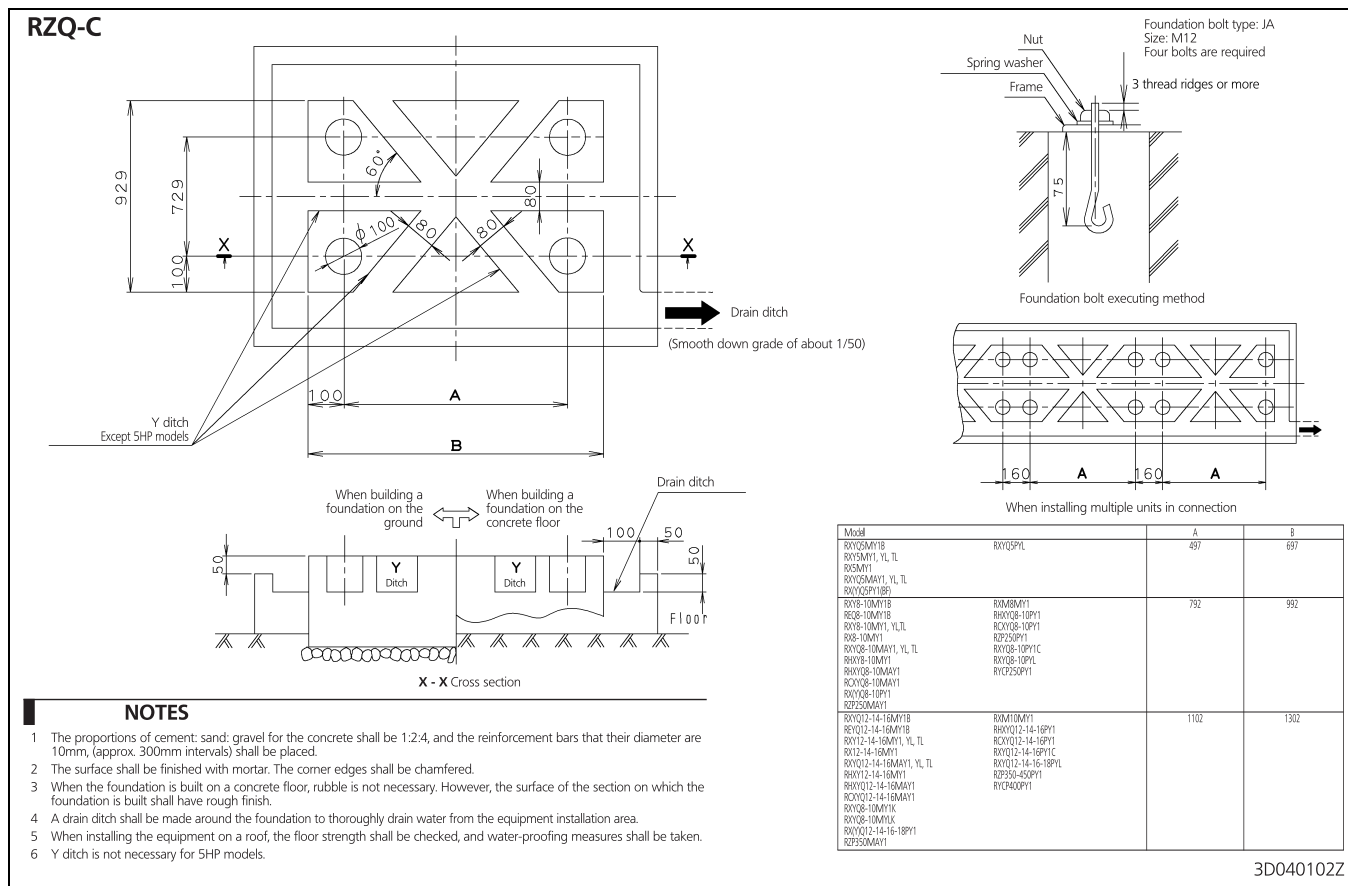
- 1 Heights of walls in case of Patterns 1 and 2:
Front: 1500 mm
suction side: 500 mm
Side: Height unrestricted.
Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load 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.
- 2 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.
- 3 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.)
- 4 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

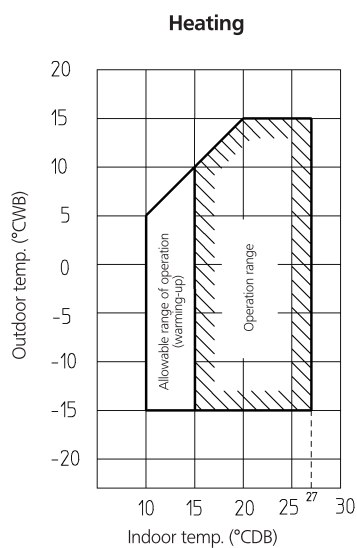
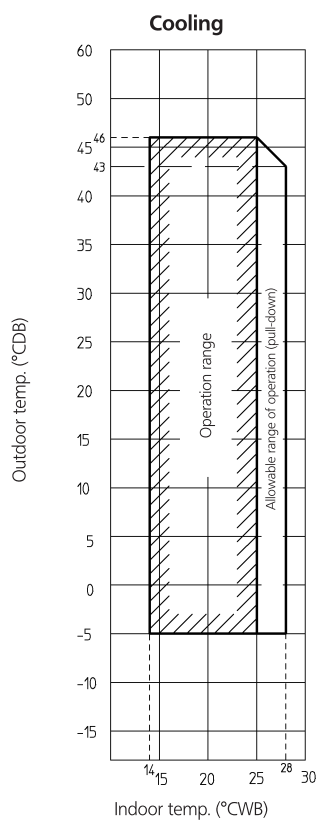
12 - 2 Fixation and Foundation of Units



13 Operation range

13 - 1 Operation Range

RZQ200-250C



4TW26566-1



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