



# Air Conditioning Technical Data

Pair, Twin, Triple, double twin



EEEN15-100

RZQ-C



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## RZQ-C

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# 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

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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		m <sup>2</sup>				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.	m <sup>3</sup> /min			171		
			Super low	m <sup>3</sup> /min			-		
		Heating	Nom.	m <sup>3</sup> /min			171		
			Super low	m <sup>3</sup> /min			-		
	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	Ambien t	Min.	°CDB			-5.0		
			Max.	°CDB			46.0		
	Heating	Ambien t	Min.	°CWB			-15.0		
			Max.	°CWB			15.0		
Refrigerant	Type						R-410A		
	Charge		kg			8.3	9.3		
			TCO <sub>2eq</sub>			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

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### RZQ-C

Unit combination		Power supply		Comp.			OFM		IFM			
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA		
FCQ50B8V1	×4 RZQ200C7Y1B	50 - 400		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
FFQ50BV1B	×4 RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.055×4	0.7×4
FFQ60BV1B	×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
FHQ50BUV1B	×4 RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4	0.6×4
FHQ60BUV1B	×3 RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3	0.6×3
FHQ71BUV1B	×3 RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3	0.6×3
FHQ100BUV1B	×2 RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2	0.7×2
FUQ71BUV1B	×3 RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.045×3	0.7×3
FUQ100BUV1B	×2 RZQ200C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.090×2	1.1×2
FAQ71BUV1B	×3 RZQ200C7Y1B	50 - 400		14.9	-	20	-	13.3	0.75	0.7	0.043×3	0.3×3
FAQ100BUV1B	×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
FFQ60BV1B	×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
FHQ60BUV1B	×4 RZQ250C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4	0.6×4
FHQ125BUV1B	×2 RZQ250C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2	0.7×2
FUQ125BUV1B	×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
FCQHG71FVVEB	×3 RZQ200C7Y1B	50 - 400		17.3	-	20	-	13.3	0.75	0.7	0.091×3	0.5×3
FCQHG100FVVEB	×2 RZQ200C7Y1B	50 - 400		18.7	-	20	-	13.3	0.75	0.7	0.221×2	1.3×2
FCQ60FVVEB	×4 RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.039×4	0.3×4
FCQ60G7VVEB	×3 RZQ200C7Y1B	50 - 400		16.5	-	20	-	13.3	0.75	0.7	0.044×3	0.3×3
FCQ671FVVEB	×3 RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3	0.4×3
FCQ6100FVVEB	×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
FUQ71CVVEB	×3 RZQ200C7Y1B	50 - 400		18.0	-	20	-	13.3	0.75	0.7	0.046×3	0.7×3
FUQ100CVVEB	×2 RZQ200C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.106×2	1.0×2
FAQ71CVVEB	×3 RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3	0.4×3
FAQ100CVVEB	×2 RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.064×2	0.4×2
FCQHG125FVVEB	×2 RZQ250C7Y1B	50 - 400		18.9	-	20	-	13.3	0.75	0.7	0.224×2	1.4×2
FCQ60G7VVEB	×4 RZQ250C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.044×4	0.3×4
FCQ6125FVVEB	×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
FUQ125CVVEB	×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 <sup>~</sup> 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

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

Symbols

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

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 <sup>~</sup> 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

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

Symbols

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

3D096315C

### 3 Electrical data

#### 3 - 1 Electrical Data

##### 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	16	20	-	13,3	0,75	0,7	2x0.127	2x1
3xFBQ71D2VEB	RZQ200C7Y1B			MIN. 50Hz 380V	15,5	20	-	13,3	0,75	0,7	3x0.07	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

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

4

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 Combination table

## 5 - 1 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	
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**

- Possible indoor units  
 FCQG50 - 125  
 FCQHG50 - 125  
 FCQ50 - 125  
 FFQ50.60  
 FHQ50 - 125  
 FBQ50 - 125  
 FAQ71.100  
 FUQ71 - 125  
 FDQ125  
 FDX50 - 60  
 FNQ50 - 60
- The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities.
- Do not combine indoor units of different types within the same installation.
- The refnet kits required to install the various combinations are mentioned between brackets.

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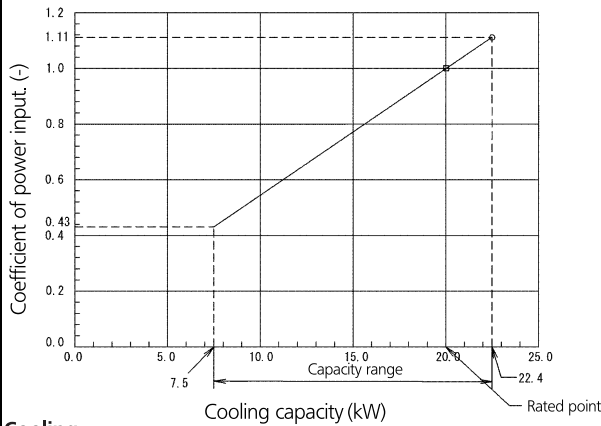
# 6 Capacity tables

## 6 - 1 Cooling Capacity Tables

6

### 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 (m<sup>3</sup>/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 (m<sup>3</sup>/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

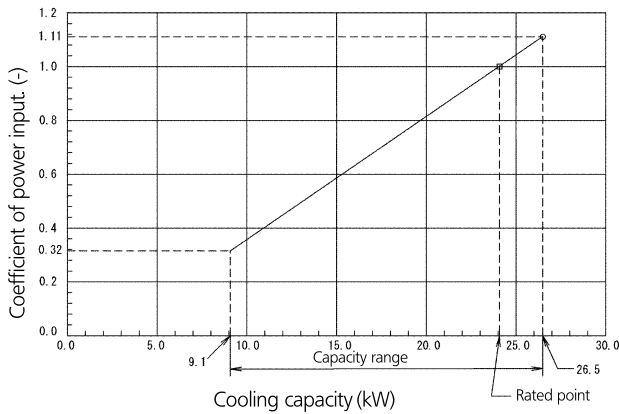
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# 6 Capacity tables

## 6 - 1 Cooling Capacity Tables

### RZQ250C

#### Cooling



#### Cooling

Indoor °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	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  $\square$  show the max. at standard conditions.  
On the figure the mark with  $\square$  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
Cooling	8,77	9,80	10,2	9,31

(Double twin)

	FCQG60Fx4	FHQ60CAx4
Cooling	11,1	9,89

#### SYMBOLS

- AFR: Air flow rate (m<sup>3</sup>/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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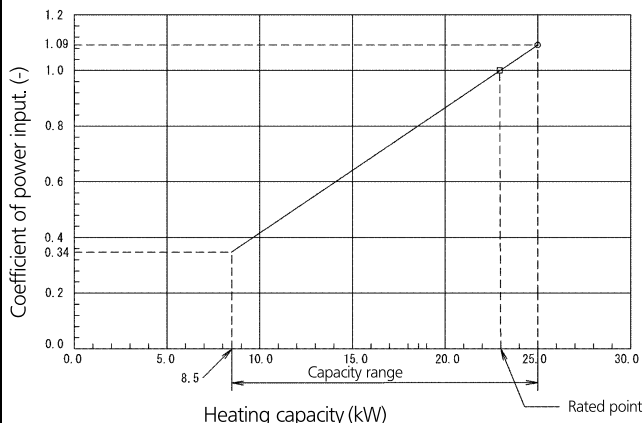
# 6 Capacity tables

## 6 - 2 Heating Capacity Tables

6

### RZQ200C

#### Heating



#### Heating

Indoor	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
°CDB	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 (m<sup>3</sup>/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 (m<sup>3</sup>/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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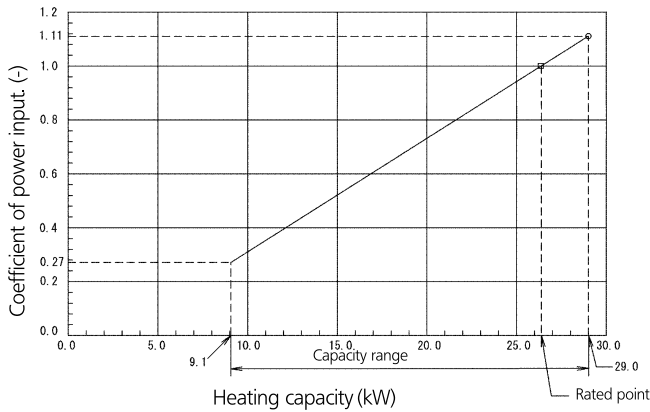


# 6 Capacity tables

## 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 x AFR (m<sup>3</sup>/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
Heating	7,48	9,25	8,63	8,31

(Double twin)

	FCQG60Fx4	FHQ60CAx4
Heating	9,88	9,43

#### SYMBOLS

- AFR: Air flow rate (m<sup>3</sup>/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.**

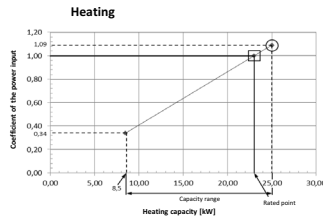
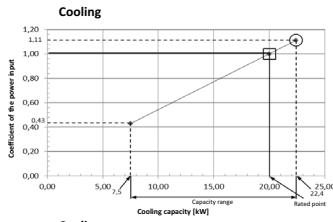
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# 6 Capacity tables

## 6 - 3 Cooling/Heating Capacity Tables

6

### RZQ200C



**Symbols**  
 AFR: Air flow rate (m<sup>3</sup>/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		
°CWB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	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

Indoor	Outdoor temperature [°C WB]											
	-15		-10		-5		0		5		10	
°CWB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	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

- 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 (m<sup>3</sup>/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

AFR	69
BF	(0.31)

Pair

Cooling	6.29
Heating	6.74

Twin

AFR	32 × 2	29 × 2
BF	(0.13 × 2)	(0.03 × 2)

Twin

Cooling	5.99	5.99
Heating	5.72	5.72

Triple

AFR	14.5 × 3	18 × 3	18 × 3	18 × 3	16 × 3	16 × 3
BF	(0.11 × 3)	(0.15 × 3)	(0.08 × 3)	(0.13 × 3)	(0.12 × 3)	(0.12 × 3)

Triple

Cooling	6.46	6.31	6.31	6.31	6.31	6.31
Heating	6.36	6.05	6.05	6.05	6.62	6.62

Double twin

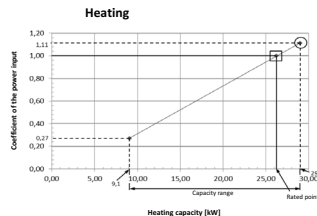
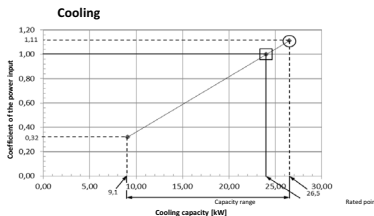
AFR	12.4 × 4	16 × 4	15 × 4	15 × 4
BF	(0.16 × 4)	(0.16 × 4)	(0.13 × 4)	(0.11 × 4)

Double twin

Cooling	6.87	6.31	6.31	6.09	6.09
Heating	6.68	6.05	6.05	5.90	5.90

3TW29041-4C

### RZQ250C



**Symbols**  
 AFR: Air flow rate (m<sup>3</sup>/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		
°CWB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	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	19.0	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	26.6	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

Indoor	Outdoor temperature [°C WB]											
	-15		-10		-5		0		5		10	
°CWB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	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

- 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 (m<sup>3</sup>/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

AFR	89
BF	(0.34)

Pair

Cooling	8.58
Heating	8.22

Twin

AFR	39 × 2	34 × 2
BF	(0.14 × 2)	(0.06 × 2)

Twin

Cooling	8.88	8.88	8.88
Heating	7.88	7.88	7.88

Double twin

AFR	14.5 × 4	18 × 4	18 × 4	16 × 4	16 × 4
BF	(0.11 × 4)	(0.15 × 4)	(0.15 × 4)	(0.12 × 4)	(0.12 × 4)

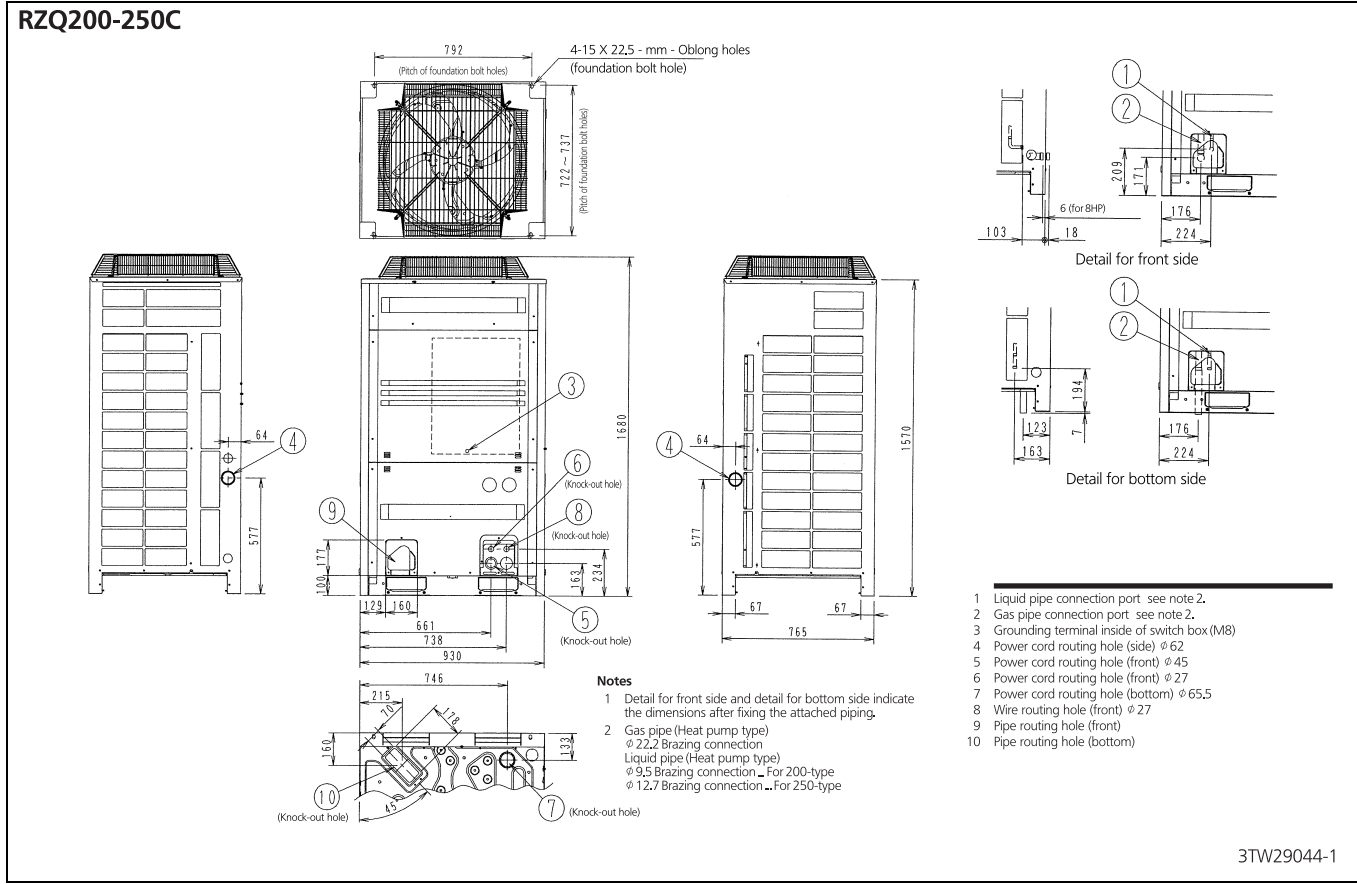
Double twin

Cooling	9.64	9.66	9.66	9.35	9.35
Heating	8.05	7.80	7.80	8.46	8.46

3TW29051-4C

# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

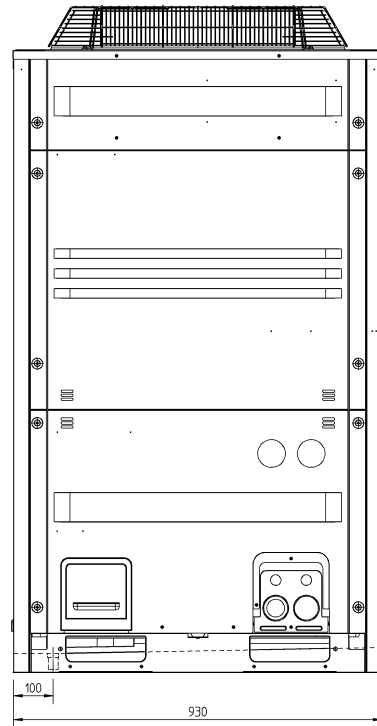
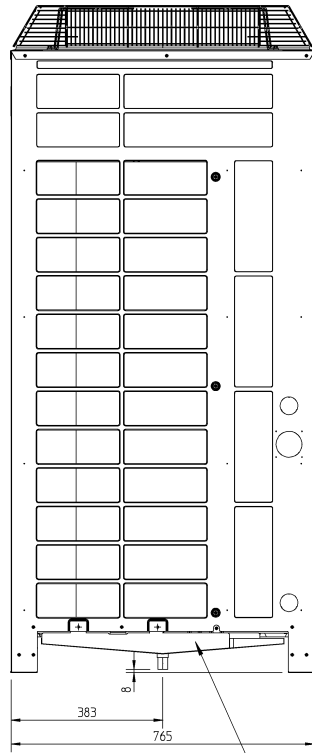


# 7 Dimensional drawings

## 7 - 2 Dimensional Drawings with Accessories

7

RZQ200-250C



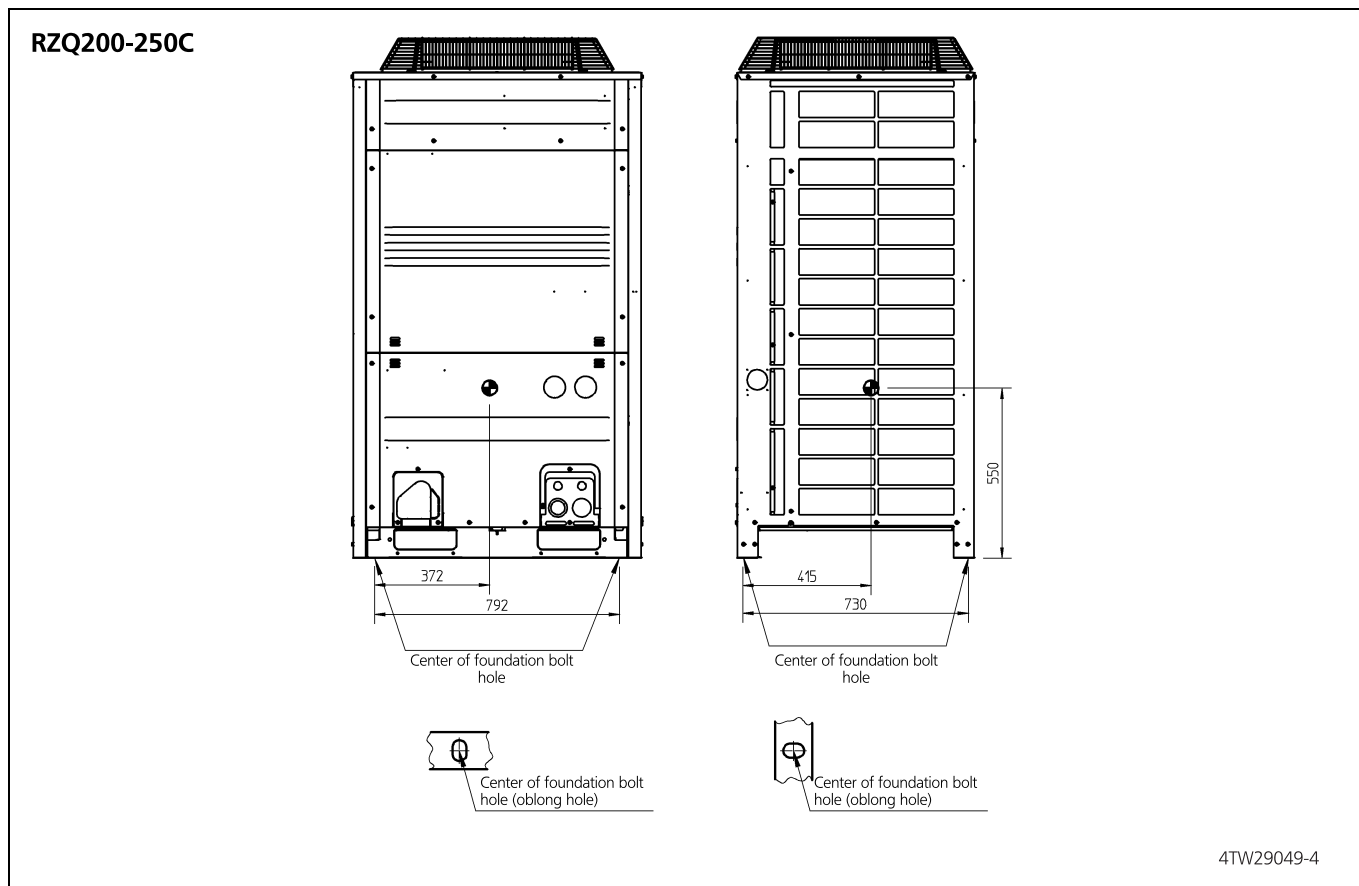
**NOTES**

- 1 Central drain pan kit KWC26B280

3TW27244-1

# 8 Centre of gravity

## 8 - 1 Centre of Gravity



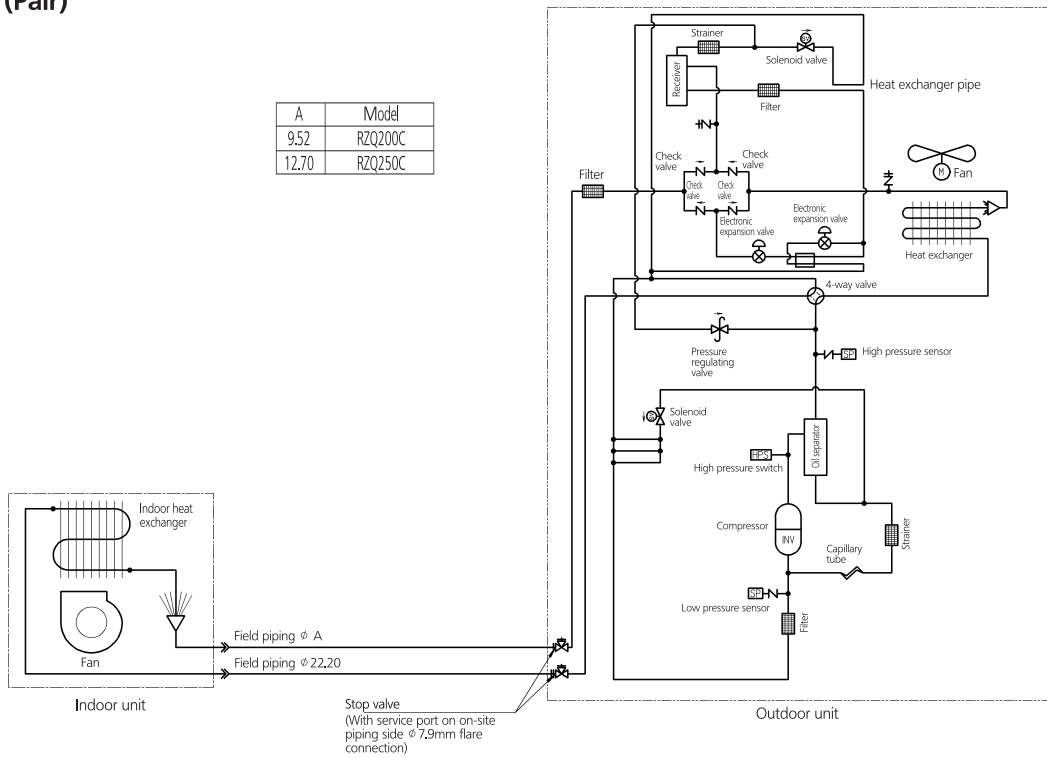
# 9 Piping diagrams

## 9 - 1 Piping Diagrams

9

RZQ200-250C (Pair)

A	Model
9.52	RZQ200C
12.70	RZQ250C



3TW29045-1

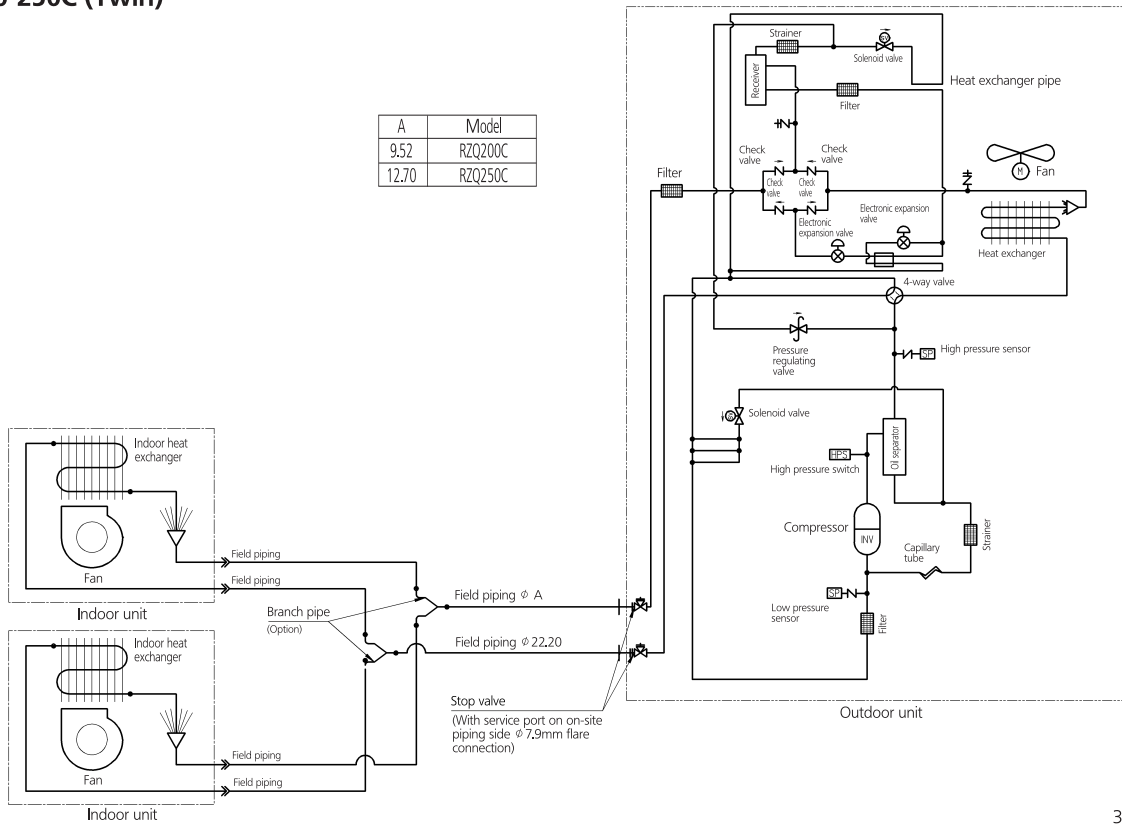
Check valve  
 Flare connection  
 Screw connection  
 Flange connection  
 Pinched pipe  
 Spinned pipe

# 9 Piping diagrams

## 9 - 2 Piping Diagram Twin Application

RZQ200-250C (Twin)

A	Model
9.52	RZQ200C
12.70	RZQ250C



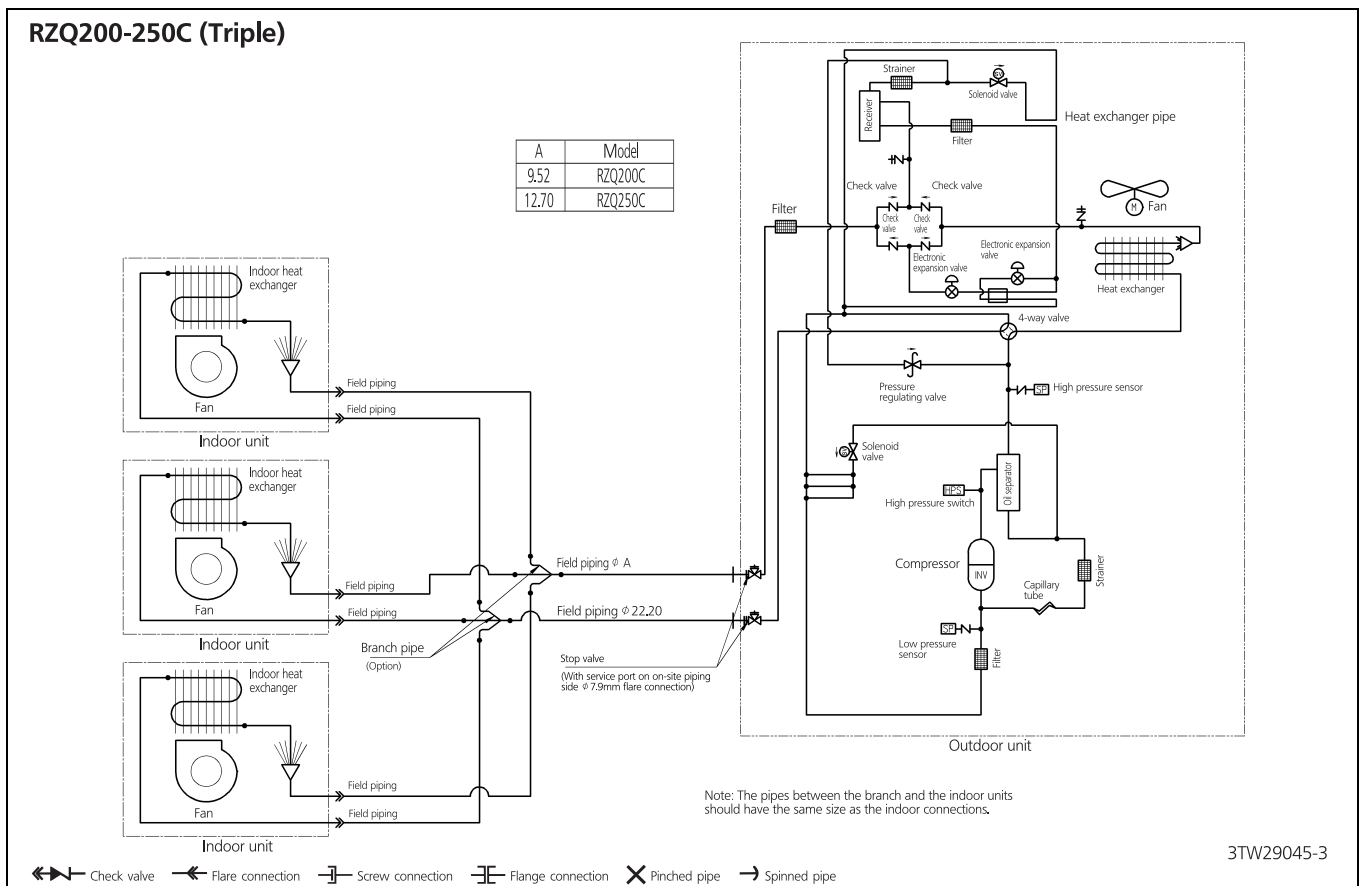
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 Flare connection  
 Screw connection  
 Flange connection  
 Pinched pipe  
 Spinned pipe

3TW29045-2

# 9 Piping diagrams

## 9 - 3 Piping Diagram Triple Application

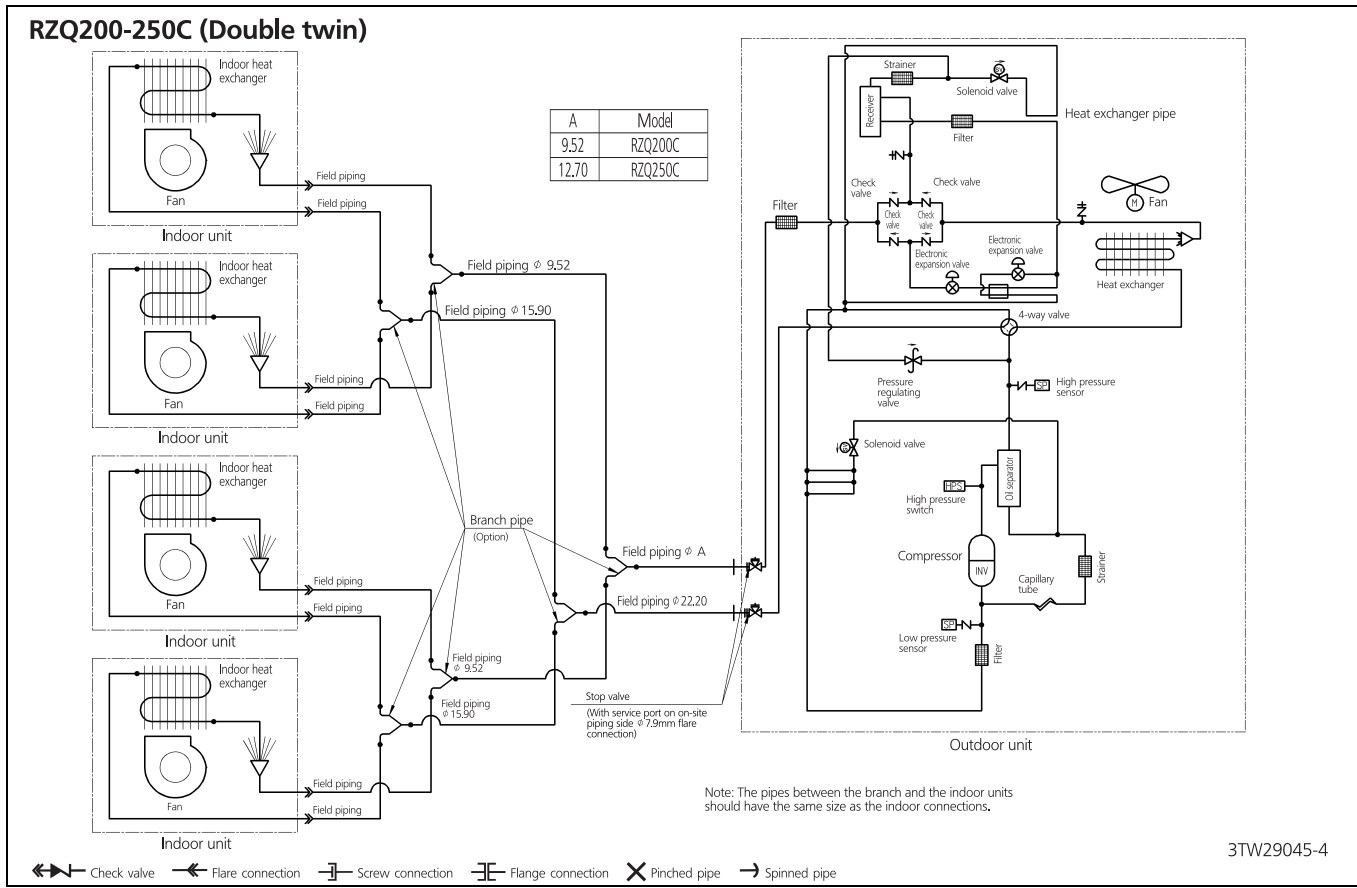
9





# 9 Piping diagrams

## 9 - 4 Piping Diagram Double Twin Application



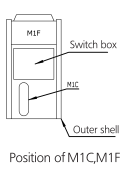
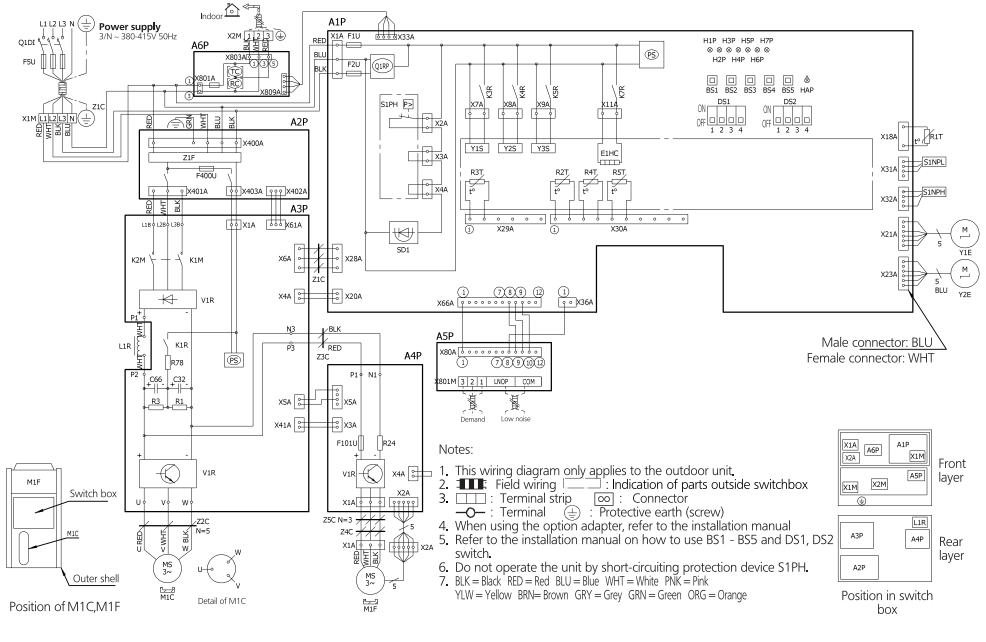
# 10 Wiring diagrams

## 10 - 1 Wiring Diagrams - Three Phase

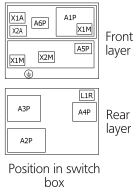
10

### RZQ-C

A1P~A6P	Printed circuit board
A1P	Main
A2P	Noise filter
A3P	Breaker
A4P	Fan
A5P	OA Transmission
B51~B55	Push button switch (M)On, set, return, test, reset)
C1	Capacitor
C63,C66	Capacitor
DS1,DS2	Dip switch
E1HC	Crankcase heater
F101U	Fuse (A4P)
F101, F2U	Fuse (250V, 3.15A(C)) (A1P)
F400U	Fuse (250V, 6.3A(C)) (A2P)
H1P~H8P	Fluorescent lamp (service monitor=orange) R2P Prepare test—(clearing) M malfunction detector—(light up) Fluorescent lamp (service monitor—green)
HAP	Magnetic relay (M1Q) (A3P)
K1R, K2M	Magnetic contactor (M1Q) (A3P)
K3R~K7R	Magnetic relay
K8R	Y1S
K9R	Y2S
K10R	Y3S
K11R	Y4S
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 limiting) (A4P)
R1, R3	Resistor
R7B	Resistor (current limiting)
R1T~R5T	Thermistor
R1T	Air (A1P)
R1T	Fin (A3P)
R2T	Suction
R3T	M/C Discharge
R4T	Heat exch. device
R5T	Sub. coil outlet
RC	Receiver
S1PH	Pressure sensor (high)



- Notes:
1. This wiring diagram only applies to the outdoor unit.
  2. Field wiring [ ] : Indication of parts outside switchbox
  3. Terminal strip [ ] : Connector
  4. When using the option adapter, refer to the installation manual
  5. Refer to the installation manual on how to use B51 - B55 and DS1, DS2 switch.
  6. Do not operate the unit by short-circuiting protection device S1PH.
  7. BLK = Black RED = Red BLU = Blue WHT = White Pnk = Pink  
YLW = Yellow BRN = Brown GRN = Grey GRN = Green ORG = Orange

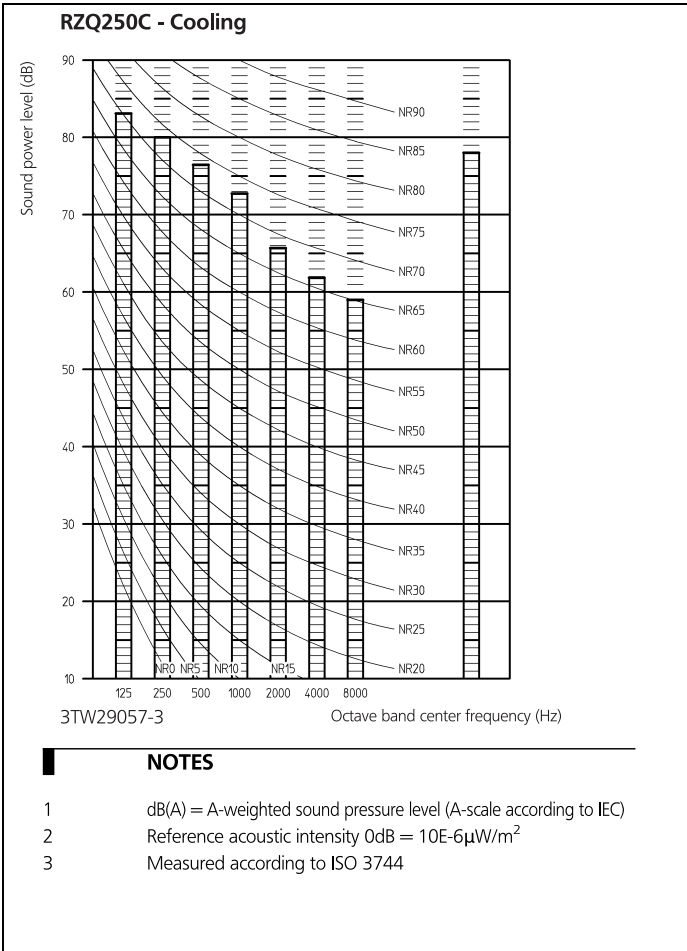
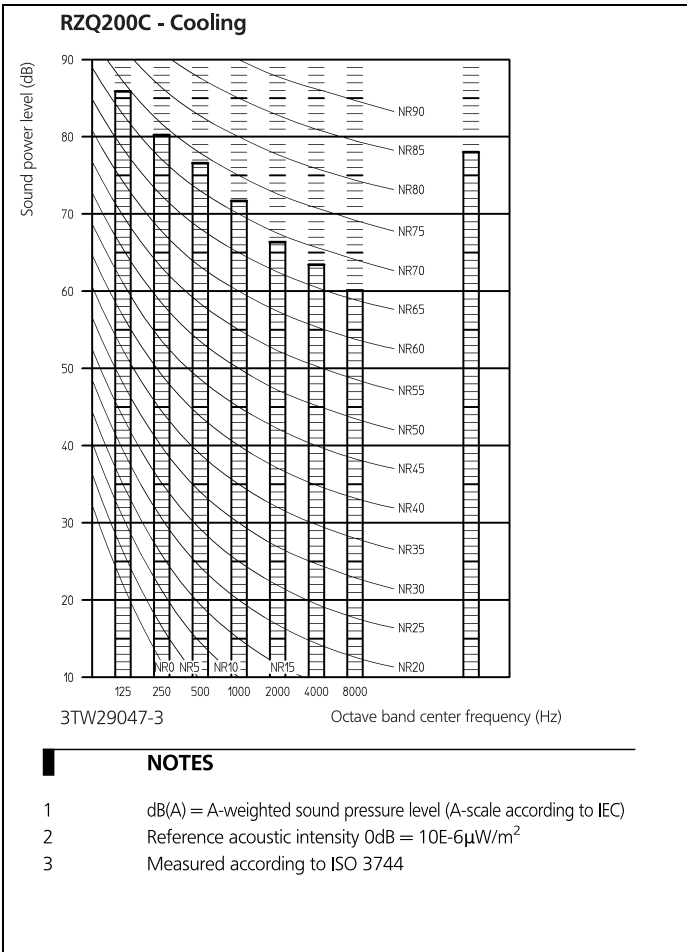


S1PH	Pressure sensor (low)	Y1E	Electronic expansion valve (Main)
S1PHH	Pressure sensor (high)	Y2E	Electronic expansion valve (Subcoil)
S01	Safety device input	Y1S~Y3S	Safety valve
TC	Transmitter	Y1S	Hot gas
V1R	Power module (A4P)	Y2S	Receiver gas purge
V1R	Power module (A3P)	Y3S	4-way valve
X1A, X2A	Connector (M1F)	Z1C~Z5C	Noise filter (remote case)
X1M	Terminal strip (Power supply)	Z1F	Noise filter (with surge absorber)
X2M	Terminal strip (OA Transmission)	Option	
		ASP	Printed circuit board (for demand)

2TW29046-1D

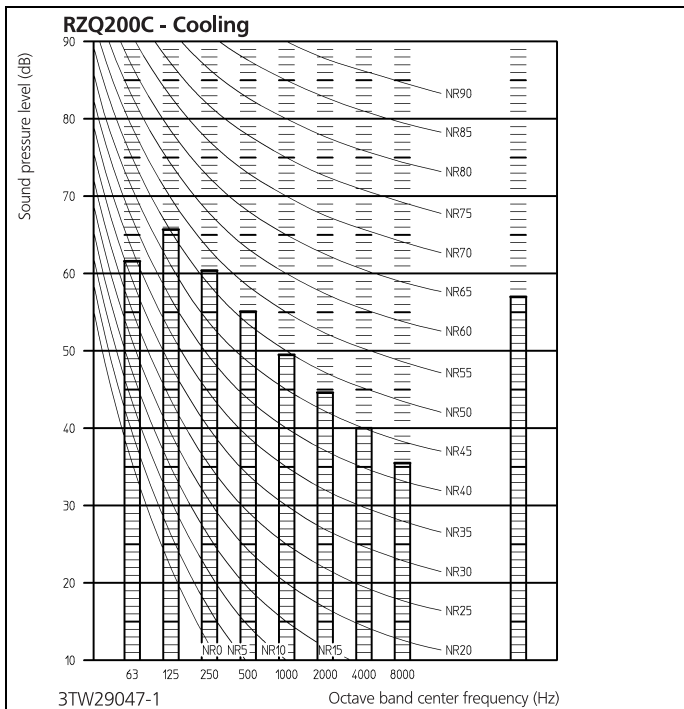
# 11 Sound data

## 11 - 1 Sound Power Spectrum



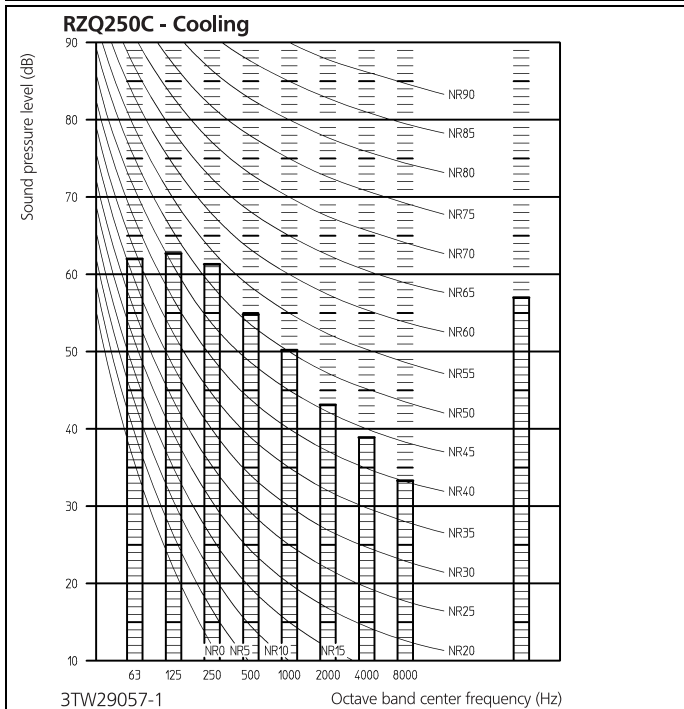
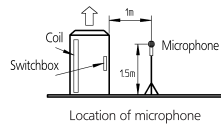
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum - Cooling



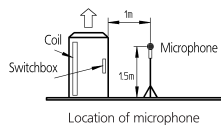
**NOTES**

- 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



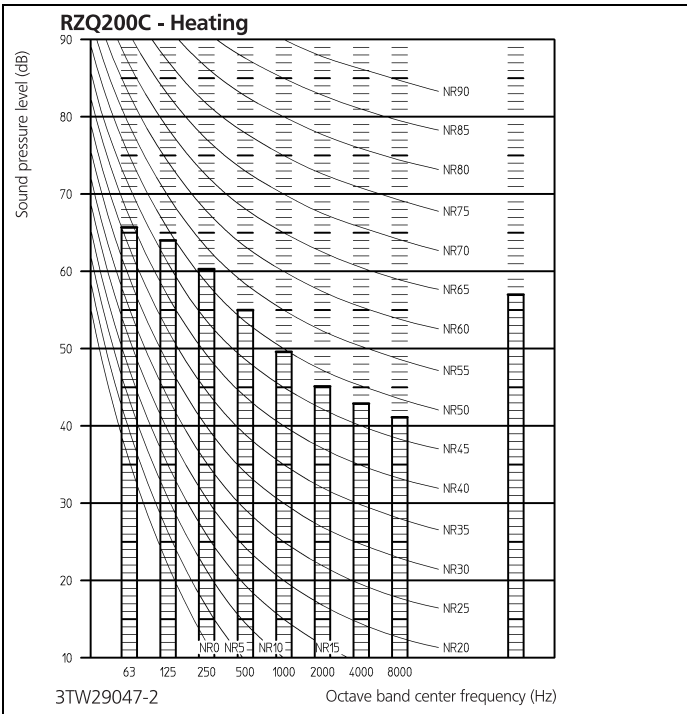
**NOTES**

- 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

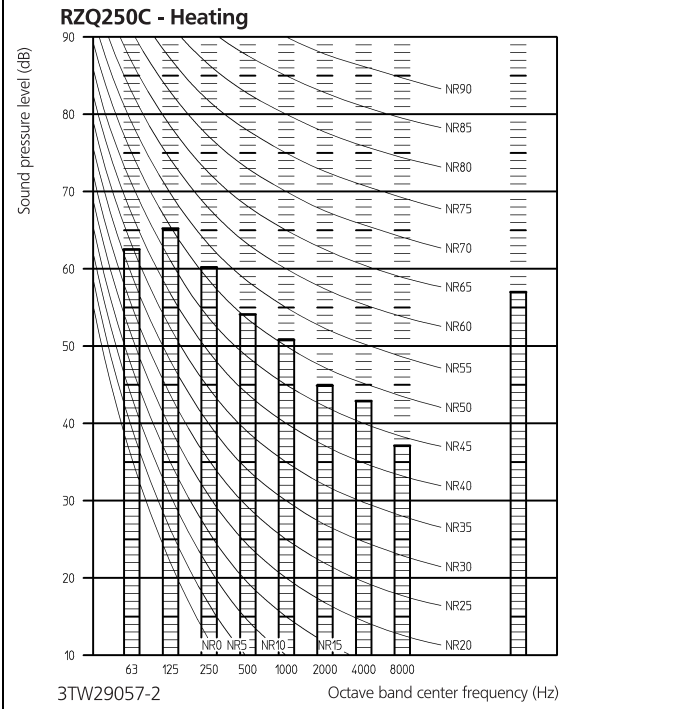
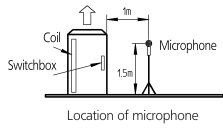


# 11 Sound data

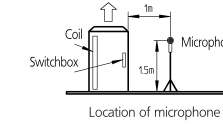
## 11 - 3 Sound Pressure Spectrum - Heating



- 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 heating 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 heating mode

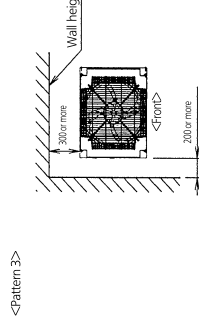
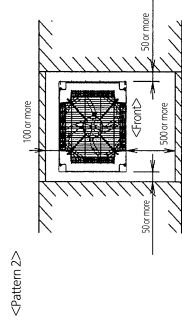
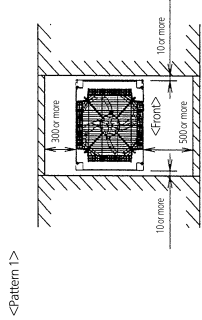


# 12 Installation

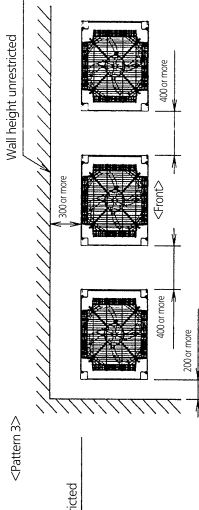
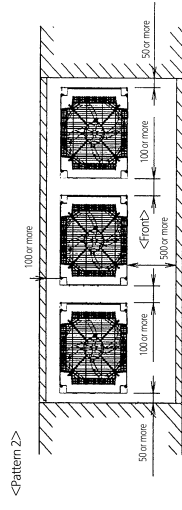
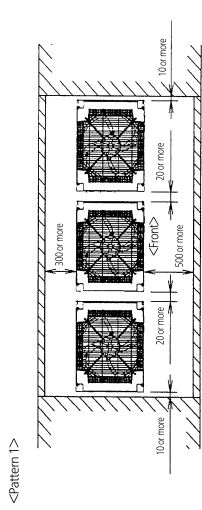
## 12 - 1 Installation Method

### RZQ200-250C

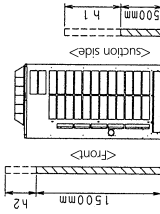
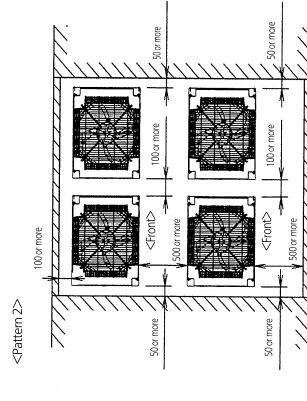
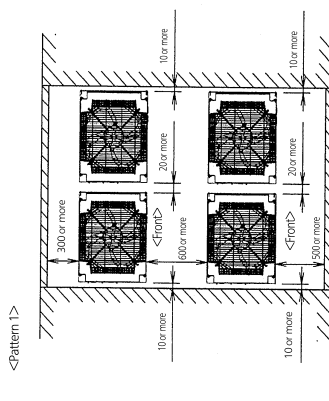
For single unit installation



For installation in rows



For centralized group layout



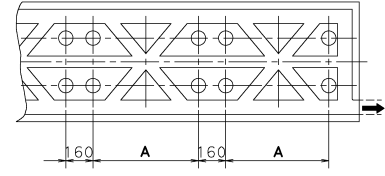
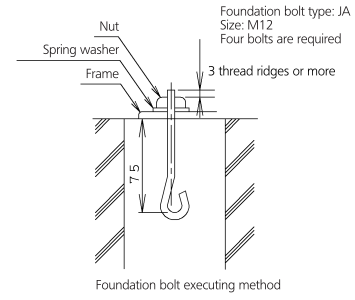
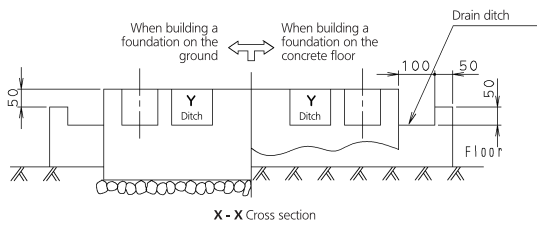
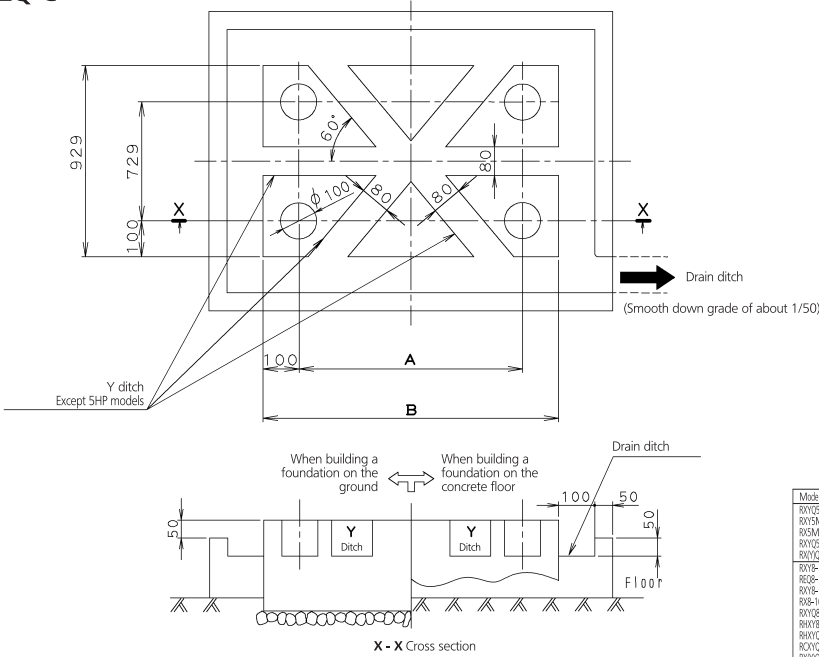
Notes:

- 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.
- 4 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.

# 12 Installation

## 12 - 2 Fixation and Foundation of Units

### RZQ-C



When installing multiple units in connection

Model		A	B
RXV2AM11B RXV5M11, YL, TL RXVM11 RXV25MA11, YL, TL RXV25P11(BF)	RXV25PL	497	697
RXV8-10M11B R2S8-10M11B RXV8-10M11 RXV8-10MA11, YL, TL R6XY8-10M11 R6XY8-10MA11 R6XY8-10P11 R6Y230MA11	R6M6M11 R6XY8-10PY1 R6Y230PY1 R6XY8-10PY1C R6XY8-10PL R6Y230PY1	792	992
RXV12-14-16M11B R6Y12-14-16M11B RXV12-14-16M11 RXV12-14-16MA11, YL, TL R6XY12-14-16M11 R6XY12-14-16MA11 R6XY12-14-16P11 R6Y12-14-16-18P1L R2P35-45PY1 R6Y400PY1	R6M10M11 R6XY12-14-16PY1 R6Y12-14-16PY1C R6Y12-14-16-18P1L R2P35-45PY1 R6Y400PY1	1102	1302

### NOTES

- 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 SHP models.

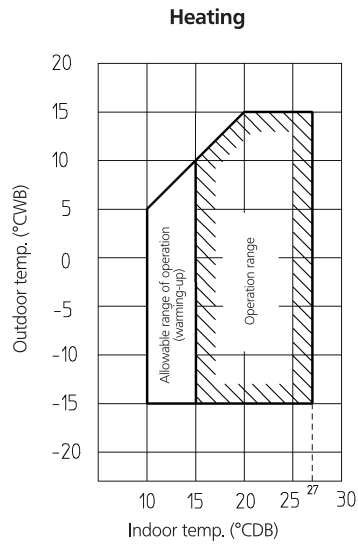
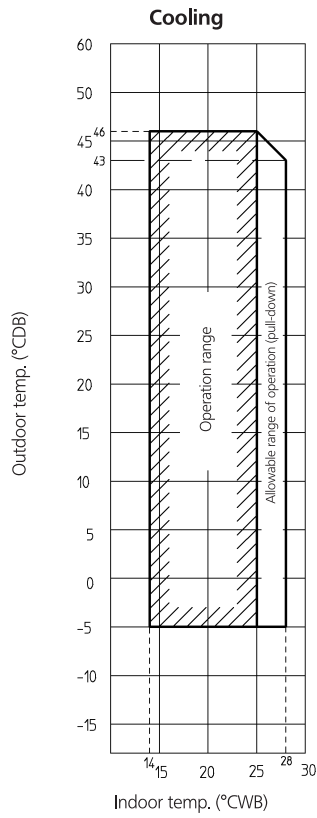
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# 13 Operation range

## 13 - 1 Operation Range

13

RZQ200-250C



4TW26566-1





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