

# technical data

RZQS71-140C7V1B

air conditioning systems

Split  
Sky Air

**R-410A**

# Split - Sky Air

In all of us,  
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Het ISO14001 assures an effective environmental management system in order to help protect human health and the environment from potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

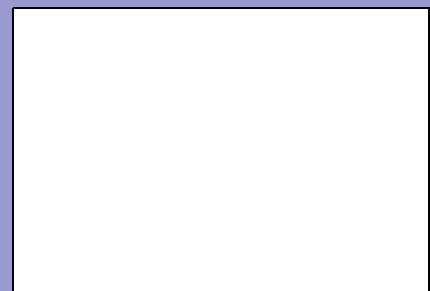


Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

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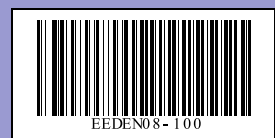
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# technical data

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air conditioning systems

Split  
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**R-410A**

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# 1 Features

- Outdoor units for pair, twin, triple, double twin application
- The Sky Air Inverter is developed for use in shops, restaurants and small offices. This innovative Daikin unit provides a more comfortable environment and offers great savings in energy consumption to shop 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 and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with either a swing or scroll compressor, renowned for 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

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## 2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQS71C7V1B	RZQS100C7V1B	RZQS125C7V1B	RZQS140C7V1B
For combination indoor units + outdoor units	Indoor Units			FCHQ71C7VEB	FCHQ100C7VEB	FCHQ125C7VEB	FCHQ140C7VEB
Cooling capacity	Standard	kW		7.1	10.0	12.5	14.0
Heating capacity	Standard	kW		8.0	11.2	14.0	16.0
Power Input	Cooling	Standard	kW	2.36	3.56	3.88	4.98
	Heating	Standard	kW	2.34	3.28	4.11	4.98
For combination indoor units + outdoor units	EER	Nominal		3.01	2.81	3.22	2.81
	COP	Nominal		3.41	3.41	3.41	3.21
	Energy Label	Cooling		B	C	A	C
		Heating		B	B	B	C
	Annual energy consumption	kWh		1,180	1,780	1,940	2,490
Indoor Units				FCQ71C7VEB	FCQ100C7VEB	FCQ125C7VEB	FCQ140C7VEB
Cooling capacity	Standard	kW		7.1	10.0	12.5	14.0
Heating capacity	Standard	kW		8.0	11.2	14.0	16.0
Power Input	Cooling	Standard	kW	2.46	3.83	4.14	5.36
	Heating	Standard	kW	2.61	3.47	4.52	5.69
For combination indoor units + outdoor units	EER	Nominal		2.89	2.61	3.02	2.61
	COP	Nominal		3.07	3.23	3.1	2.81
	Energy Label	Cooling		C	D	B	D
		Heating		D	C	D	D
	Annual energy consumption	kWh		1,230	1,915	2,070	2,680
Indoor Units				FBQ71B8V3B	FBQ100B8V3B	FBQ125B8V3B	FBQ140B8V3B
Cooling capacity	Standard	kW		7.1	10.0	12.5	13.4
Heating capacity	Standard	kW		8.0	11.2	14.0	15.5
Power Input	Cooling	Standard	kW	2.52	3.83	4.4	4.97
	Heating	Standard	kW	2.40	3.47	4.24	4.99
For combination indoor units + outdoor units	EER	Nominal		2.82	2.61	2.84	2.70
	COP	Nominal		3.33	3.23	3.3	3.11
	Energy Label	Cooling		C	D	C	D
		Heating		C	C	C	D
	Annual energy consumption	kWh		1,260	1,915	2,200	2,485
Indoor Units				FHQ71BVV1B	FHQ100BVV1B	FHQ125BVV1B	
Cooling capacity	Standard	kW		7.1	10.0	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.53	4.15	4.58	
	Heating	Standard	kW	2.85	3.99	4.96	
For combination indoor units + outdoor units	EER	Nominal		2.81	2.41	2.73	
	COP	Nominal		2.81	2.81	2.82	
	Energy Label	Cooling		C	E	D	
		Heating		C	D	D	
	Annual energy consumption	kWh		1,265	2,075	2,290	
Indoor Units				FAQ71BVV1B	FAQ100BVV1B	FHQ125B8V3B	
Cooling capacity	Standard	kW		7.1	10.0	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.53	4.08	4.45	
	Heating	Standard	kW	2.61	3.73	4.08	
For combination indoor units + outdoor units	EER	Nominal		2.81	2.45	2.81	
	COP	Nominal		3.07	3.00	3.43	
	Energy Label	Cooling		C	F	C	
		Heating		D	D	B	
	Annual energy consumption	kWh		1,265	2,040	2,225	
Indoor Units				FVQ71BV1B	FVQ100BV1B	FVQ125BV1B	
Cooling capacity	Standard	kW		7.1	10.0	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.53	4.02	4.45	
	Heating	Standard	kW	2.49	3.99	4.36	

## 2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQS71C7V1B	RZQS100C7V1B	RZQS125C7V1B	RZQS140C7V1B
For combination indoor units + outdoor units	EER	Nominal		2.81	2.49	2.81	
	COP	Nominal		3.21	2.81	3.21	
	Energy Label	Cooling		C	E	C	
		Heating		C	D	C	
Annual energy consumption	kWh		1,265	2,010	2,225		

2-2 TECHNICAL SPECIFICATIONS				RZQS71C7V1B	RZQS100C7V1B	RZQS125C7V1B	RZQS140C7V1B	
Casing	Colour			Ivory White				
	Material			Painted galvanised steel				
Dimensions	Unit	Height	mm	770	700	1,170	1170	
		Width	mm	900	900	900	900	
		Depth	mm	320	320	320	320	
	Packing	Height	mm	900	900	1,349	1349	
		Width	mm	980	980	980	980	
		Depth	mm	420	420	420	420	
Weight	Unit		kg	68	68	103	103	
	Packed Unit		kg	72	72	114	114	
Heat Exchanger	Dimensions	Length	mm	857	857	857	857	
		Nr of Rows			2	2	2	
		Fin Pitch	mm	1.4	1.4	1.4	1.4	
		Nr of Passes			8	8	10	
		Face Area	m <sup>2</sup>	0.641	0.641	0.98	0.98	
		Nr of Stages			34	34	52	
	Tube type			Hi-XSS(8)				
	Fin	Type		WF fin				
Treatment		Anti-corrosion treatment (PE)						
Fan	Type			Propeller				
	Discharge direction			Horizontal				
	Quantity			1	1	2	2	
	Air Flow Rate (nominal at 230V)	Cooling	m <sup>3</sup> /min	52	61.3	100	97	
		Heating	m <sup>3</sup> /min	52	63.5	88	88	
	Motor	Quantity		1	1	2	2	
Model		KFD-325-70-8A	KFD-325-70-8A	Brushless DC Motor				
Motor	Speed (nominal)	Steps		8	8	10	10	
		Cooling (Standard)	rpm	800	920	850	830	
		Heating (Standard)	rpm	745	950	740	740	
Fan	Motor	Output	W	70	70	70	70	
Compressor	Quantity			1	1	1	1	
	Motor	Model		2YC63DXD	2YC63DXD	JT100G-VD	JT100G-VD	
		Type			Hermetically sealed swing compressor		Hermetically sealed scroll compressor	
		Motor Output	W	1,700	2,400	2,200	2,200	
		Crankcase Heater	W			33	33	
		Starting Method			Inverter driven			
Operation Range	Cooling	Min	°CDB	-5	-5	-5	-5	
		Max	°CDB	46	46	46	46	
	Heating	Min	°CWB	-15	-15	-15	-15	
		Max	°CWB	15.5	15.5	15.5	15.5	

## 2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RZQS71C7V1B	RZQS100C7V1B	RZQS125C7V1B	RZQS140C7V1B	
Sound Level (nominal)	Cooling	Sound Power	dBa	65	67	67	68	
		Sound Pressure (Standard)	dBa	49	51	51	52	
	Heating	Sound Pressure (Standard)	dBa	51	55	53	54	
Sound Level (Night quiet)	Sound Pressure		dBa	47	49	49	50	
Refrigerant	Type			R-410A				
	Charge	kg		2.75	2.75	3.7	3.7	
	Control			Expansion valve (electronic type)				
	Nr of Circuits			1	1	1	1	
Refrigerant Oil	Type			FVC50K	FVC50K	Daphne FVC68D	Daphne FVC68D	
	Charged Volume	l		0.75	0.75	1.0	1.0	
Piping connections	Liquid (OD)	Quantity		1	1	1	1	
		Type			Flare connection			
		Diameter (OD)	mm	9.52	9.52	9.52	9.52	
	Gas	Quantity		1	1	1	1	
		Type			Flare connection			
		Diameter (OD)	mm	15.9	15.9	15.9	15.9	
	Drain	Quantity		3	3	3	3	
		Type			Hole			
		Diameter (OD)	mm	26	26	26	26	
	Piping Length	Minimum	m	5	5	5	5	
		Maximum	m	30	50	50	50	
		Equivalent	m	40	70	70	70	
		Chargeless	m	30	30	30	30	
	Additional Refrigerant Charge		kg/m	see installation manual 4PW40416-1		see installation manual 4PW34874-1		
	Installation height difference	Maximum	m	15	30	30.0	30.0	
Max. internunit level difference		m	0.5	0.5	0.5	0.5		
Heat Insulation			Both liquid and gas pipes					
Defrost Method				Pressure equalising				
Defrost Control				Temperature	Sensor for outdoor heat exchanger temperature			
Capacity Control Method				Inverter controlled				
Safety Devices				High pressure switch				
				Fan motor thermal protector				
				Fuse				
Standard Accessories	Item			Tie-wraps				
	Quantity			2	2	2	2	
	Item			Installation manual				
Quantity			1	1	1	1		
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 5m, level difference : 0m.				
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 5m, level difference : 0m				



## 2 Specifications

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2-3 ELECTRICAL SPECIFICATIONS			RZQS71C7V1B	RZQS100C7V1B	RZQS125C7V1B	RZQS140C7V1B
Power Supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50	50	50	50
	Voltage		V			
	Voltage range		220-240			
	Minimum	V	198	198	198	198
	Maximum	V	264	264	264	264
Current	Rsce/Sse		-/kVA			
	Recomended fuses		A			
Wiring connections	For Power Supply	Remark	see installation manual 4PW40416-1		see installation manual 4PW34874-1	
	For connection with indoor	Remark	see installation manual 4PW40416-1		see installation manual 4PW34874-1	
Power Supply Intake			Outdoor unit only			
Notes			See separate drawings for electrical data			
					Power supply to the FDO indoor unit is separate	

### 3 Electrical data

Unit combination		Power supply					Comp.		OFM		IFM			
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQH71C7VEB	RZQ71C7V1B	50-220	Max. 50Hz 264V Min. 50Hz 198V	17.0	-	20	-	16.2	0.07	0.3	0.120	0.5		
FCQ71C7VEB	RZQ71C7V1B			17.0	-	20	-	16.2	0.07	0.3	0.056	0.5		
FCQ35C7VEBx2	RZQ71C7V1B			17.1	-	20	-	16.2	0.07	0.3	0.056x2	0.3x2		
FFQ35BV1Bx2	RZQ71C7V1B			17.7	-	20	-	16.2	0.07	0.3	0.055x2	0.6x2		
FBQ71B7V3B	RZQ71C7V1B			50-230	Max. 50Hz 264V Min. 50Hz 198V	17.4	-	20	-	16.2	0.07	0.3	0.125	0.9
FBQ35B7V1x2	RZQ71C7V1B			50-240		17.5	-	20	-	16.2	0.07	0.3	0.065x2	0.5x2
FHQ71BUV1B	RZQ71C7V1B			17.1		-	20	-	16.2	0.07	0.3	0.062	0.6	
FHQ35BUV1Bx2	RZQ71C7V1B			17.7		-	20	-	16.2	0.07	0.3	0.062x2	0.6x2	
FAQ71BUV1B	RZQ71C7V1B			16.8		-	20	-	16.2	0.07	0.3	0.043	0.3	
FUQ71BUV1B	RZQ71C7V1B			17.2		-	20	-	16.2	0.07	0.3	0.045	0.7	
FCQH71C7VEB	RZQS71C7V1B	50-220	Max. 50Hz 264V Min. 50Hz 198V	17.0		-	20	-	16.2	0.07	0.3	0.120	0.5	
FCQ71C7VEB	RZQS71C7V1B			17.0		-	20	-	16.2	0.07	0.3	0.056	0.5	
FCQ35C7VEBx2	RZQS71C7V1B			17.1		-	20	-	16.2	0.07	0.3	0.056x2	0.3x2	
FFQ35BV1Bx2	RZQS71C7V1B			17.7		-	20	-	16.2	0.07	0.3	0.055x2	0.6x2	
FBQ71B7V3B	RZQS71C7V1B			50-230	17.4	-	20	-	16.2	0.07	0.3	0.125	0.9	
FBQ35B7V1x2	RZQS71C7V1B			50-240	17.5	-	20	-	16.2	0.07	0.3	0.065x2	0.5x2	
FHQ71BUV1B	RZQS71C7V1B			17.1	-	20	-	16.2	0.07	0.3	0.062	0.6		
FHQ35BUV1Bx2	RZQS71C7V1B			17.7	-	20	-	16.2	0.07	0.3	0.062x2	0.6x2		
FAQ71BUV1B	RZQS71C7V1B			16.8	-	20	-	16.2	0.07	0.3	0.043	0.3		
FVQ71BV1B	RZQS71C7V1B			17.3	-	20	-	16.2	0.07	0.3	0.175	0.8		
FCQH100C7VEB	RZQS100C7V1B	50-220	Max. 50Hz 264V Min. 50Hz 198V	19.4	-	20	-	17.7	0.07	0.3	0.120	1.4		
FCQ100C7VEB	RZQS100C7V1B			18.7	-	20	-	17.7	0.07	0.3	0.120	0.7		
FCQ50C7VEBx2	RZQS100C7V1B			18.6	-	20	-	17.7	0.07	0.3	0.056x2	0.3x2		
FCQ35C7VEBx3	RZQS100C7V1B			18.9	-	20	-	17.7	0.07	0.3	0.056x2	0.3x3		
FFQ50BV1Bx2	RZQS100C7V1B			19.4	-	20	-	17.7	0.07	0.3	0.055x2	0.7x2		
FFQ35BV1Bx3	RZQS100C7V1B			19.8	-	20	-	17.7	0.07	0.3	0.055x3	0.6x3		
FBQ100B7V3B	RZQS100C7V1B			50-230	19.0	-	20	-	17.7	0.07	0.3	0.135	1.0	
FBQ50B7V1x2	RZQS100C7V1B			50-240	19.4	-	20	-	17.7	0.07	0.3	0.085x2	0.7x2	
FBQ35B7V1x3	RZQS100C7V1B			19.5	-	20	-	17.7	0.07	0.3	0.065x3	0.5x3		
FHQ100BUV1B	RZQS100C7V1B			18.7	-	20	-	17.7	0.07	0.3	0.130	0.7		
FHQ50BUV1Bx2	RZQS100C7V1B			19.2	-	20	-	17.7	0.07	0.3	0.062x2	0.6x2		
FHQ35BUV1Bx3	RZQS100C7V1B			19.8	-	20	-	17.7	0.07	0.3	0.062x3	0.6x3		
FAQ100BUV1B	RZQS100C7V1B			18.4	-	20	-	17.7	0.07	0.3	0.049	0.4		
FVQ100BV1B	RZQS100C7V1B			19.4	-	20	-	17.7	0.07	0.3	0.320	1.4		

#### SYMBOLS

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

#### NOTES

- 1 RLA is based on the following conditions:  
 Power supply: 50Hz - 230V  
 Cooling  
 Indoor temperature 27°CDB/19°CWB  
 Outdoor temperature 35°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 operation range limits
- 4 Maximum allowable voltage unbalance 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

Unit combination		Power supply					Comp.		OFM		IFM			
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCQH125C7VEB	RZQS125C7V1B	50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.4		
FCQ125C7VEB	RZQS125C7V1B			25.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.0		
FCQ60C7VEBx2	RZQS125C7V1B			24.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x2	0.4x2		
FCQ50C7VEBx3	RZQS125C7V1B			24.9	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3		
FCQ35C7VEBx4	RZQS125C7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x4	0.3x4		
FFQ60BV1Bx2	RZQS125C7V1B			25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2		
FFQ50BV1Bx3	RZQS125C7V1B			26.1	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3		
FFQ35BV1Bx4	RZQS125C7V1B			26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4		
FBQ125B7V3B	RZQS125C7V1B			25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.225	1.4		
FBQ60B7V1x2	RZQS125C7V1B			25.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.125x2	0.9x2		
FBQ50B7V1x3	RZQS125C7V1B			26.1	-	32	-	23.4	0.07+0.07	0.3+0.3	0.085x3	0.7x3		
FBQ35B7V1x4	RZQS125C7V1B			26.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.065x4	0.5x4		
FHQ125B0V1B	RZQS125C7V1B			24.7	-	32	-	23.4	0.07+0.07	0.3+0.3	0.130	0.7		
FHQ60B0V1Bx2	RZQS125C7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2		
FHQ50B0V1Bx3	RZQS125C7V1B			25.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3		
FHQ35B0V1Bx4	RZQS125C7V1B			26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4		
FDQ125B7V3B	RZQS125C7V1B			24.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.500	4.2		
FVQ125BV1B	RZQS125C7V1B			25.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.365	1.6		
FCQH140C7VEB	RZQS140C7V1B			50-220 50-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.4
FCQ140C7VEB	RZQS140C7V1B					25.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.0
FCQ71C7VEBx2	RZQS140C7V1B	25.0	-			32	-	23.4	0.07+0.07	0.3+0.3	0.056x2	0.5x2		
FCQ50C7VEBx3	RZQS140C7V1B	24.9	-			32	-	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3		
FCQ35C7VEBx4	RZQS140C7V1B	25.2	-			32	-	23.4	0.07+0.07	0.3+0.3	0.056x4	0.3x4		
FFQ50BV1Bx3	RZQS140C7V1B	26.1	-			32	-	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3		
FFQ35BV1Bx4	RZQS140C7V1B	26.4	-			32	-	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4		
FBQ71B7V3Bx2	RZQS140C7V1B	25.8	-			32	-	23.4	0.07+0.07	0.3+0.3	0.125x2	0.9x2		
FBQ50B7V1x3	RZQS140C7V1B	26.1	-			32	-	23.4	0.07+0.07	0.3+0.3	0.085x3	0.7x3		
FBQ35B7V1x4	RZQS140C7V1B	26.0	-			32	-	23.4	0.07+0.07	0.3+0.3	0.065x4	0.5x4		
FHQ71B0V1Bx2	RZQS140C7V1B	25.2	-			32	-	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2		
FHQ50B0V1Bx3	RZQS140C7V1B	25.8	-			32	-	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3		
FHQ35B0V1Bx4	RZQS140C7V1B	26.4	-			32	-	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4		
FAQ71B0V1Bx2	RZQS140C7V1B	24.6	-			32	-	23.4	0.07+0.07	0.3+0.3	0.043x2	0.3x2		

#### SYMBOLS

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

#### NOTES

- 1 RLA is based on the following conditions:  
Power supply: 50Hz - 230V  
Cooling  
Indoor temperature 27°CDB/19°CWB  
Outdoor temperature 35°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 operation range limits
- 4 Maximum allowable voltage unbalance between phases is 2%
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA (next lower standard fuse rating, min.15A)
- 6 Select wire size based on the larger value of MCA or TOCA
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)

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## 4 Options

Available options for RZQS100-140C7V1B			
Name of option		Kit name	
		RZQS125C7V1B	RZQS140C7V1B
Central drain pan kit		KKPJ5F180	
Refrigerant branch piping	Twin	KHRQ22M20TA	
	Triple	KHRQ127H	
	Double twin	KHRQ22M20TA (3x)	
Demand adaptor		KRP58M51	
		3TW26739-1E	

# 5 Capacity tables

## 5 - 1 Combination table

5

Refrigerant R410A		Hi cassette		Thin cassette				2½ cassette		Duct (medium ESP)				Ceiling suspended				4way ceiling	Wall mounted	
Model name		FCQH71C7VEB	FCQH100C7VEB	FCQ35C7VEB	FCQ50C7VEB	FCQ71C7VEB	FCQ100C7VEB	FFQ35B8V1B	FFQ50B8V1B	FBQ35B8V1	FBQ50B8V1	FBQ71B8V3B	FBQ100B8V3B	FHQ35B8V1B	FHQ50B8V1B	FHQ71B8V1B	FHQ100B8V1B	FUQ71B8V1B	FAQ71B8V1B	FAQ100B8V1B
Outdoor unit	<b>RZQ71C7V1B</b>	P		2		P		2		2		P		2		P		P	P	
	<b>RZQS71C7V1B</b>	P		2		P		2		2		P		2		P			P	
	<b>RZQS100C7V1B</b>		P	3	2		P	3	2	3	2		P	3	2		P			P

P = Pair      71      100  
 2 = Twin    35+35    50+50  
 3 = Triple    35+35+35

3TW30469-1

### NOTES

- See main specifications table about MAX cooling capacity & heating capacity.
- Combinations are possible regardless type of I/U. (e.g. RZQS100 can be combined with FFQ50 + FBQ50)
- Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
- When different indoor models are used in combination, designate the infrared remote controller that is equipped with the most functions as the main unit. In table above are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).
- Refnet kits that are necessary to install the combinations:  
 Twin: **KHRQ22M20TA**  
 Triple: **KHRQ127H**

## 5 Capacity tables

### 5 - 1 Combination table

#### RZQS 125-140C

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

Outdoor models	Possible indoor combination		
	Simultaneous operation		
	Twin	Triple	Double twin
RZQS125C7V1B	60-60 (KHRQ22M20TA)	50-50-50 (KHRQ127H)	35-35-35-35 (3x KHRQ22M20TA)
RZQS140C7V1B	71-71 (KHRQ22M20TA)	50-50-50 (KHRQ127H)	35-35-35-35 (3x KHRQ22M20TA)

3TW29169-3

#### NOTES

- 1 Possible indoor units: FCQH71C, FCQ35-71C, FFQ35-60BV, FHQ35-71B, FBQ35-71B, FAQ71B
- 2 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
- 3 When different indoor models are used in combination, designate the infrared remote controller that is equipped with the most functions as the main unit. In note 1 are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).
- 4 Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.

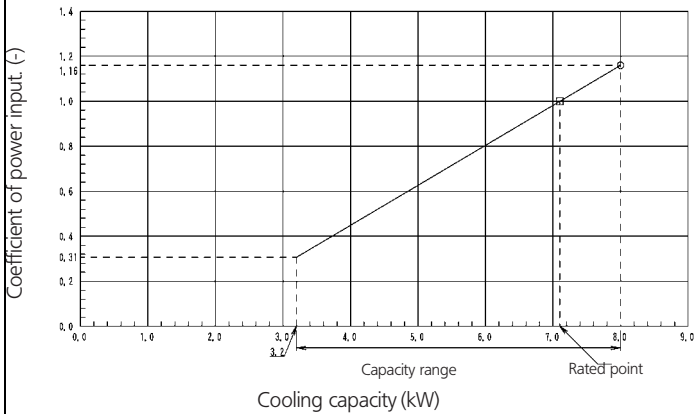
# 5 Capacity tables

## 5 - 2 Cooling capacity tables

5

### RZQS71C

#### Cooling



#### Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB (°C)	EDB (°C)	25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	6.47	4.39	0.76	6.46	4.43	0.89	6.66	4.62	0.99	6.39	4.49	1.09
18.0	25	7.43	4.82	0.83	7.20	4.72	0.91	6.95	4.61	1.00	6.67	4.47	1.10
19.0	27	7.58	4.80	0.84	7.35	4.71	0.91	7.10	4.60	1.00	6.82	4.46	1.10
19.5	27	7.6	4.79	0.84	7.43	4.70	0.91	7.17	4.59	1.00	6.86	4.46	1.10
22.0	30	8.05	4.73	0.85	7.81	4.64	0.92	7.55	4.54	1.01	7.26	4.41	1.11
24.0	32	8.37	4.66	0.85	8.12	4.58	0.93	7.85	4.48	1.02	7.55	4.35	1.12

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#### NOTES

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

(Pair)

Model	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
AFR	20	15.5	19	17	19	18
(BF)	(0.17)	(0.19)	(0.11)	(0.10)	(0.08)	(0.16)

(Multi)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
AFR	10.5x2	10x2	11.5x2	13x2
(BF)	(0.28x2)	(0.25x2)	(0.15x2)	(0.2x2)

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
Cooling	2.36	2.46	2.52	2.53	2.53	2.53
Heating	2.34	2.61	2.40	2.85	2.61	2.49

(Multi)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.59	2.61	2.57	2.66
Heating	2.75	2.70	2.47	2.85

#### 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 heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

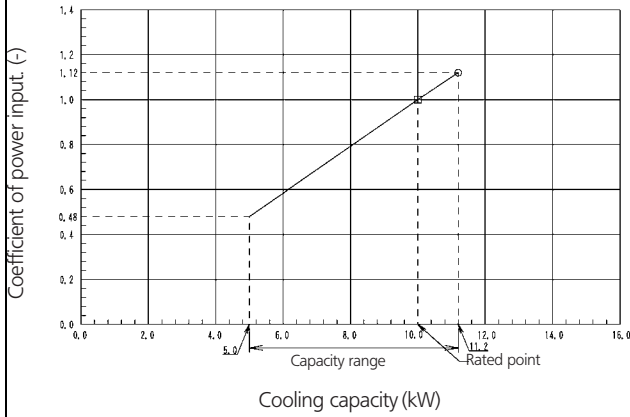
**Caution:**  
TC and SHC are shown by kW

# 5 Capacity tables

## 5 - 2 Cooling capacity tables

### RZQS100C

#### Cooling



#### Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB (°C)	EDB (°C)	25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	9.12	6.19	0.76	9.10	6.25	0.89	9.38	6.51	0.99	9.00	6.32	1.09
18.0	25	10.5	6.78	0.83	10.1	6.65	0.91	9.79	6.49	1.00	9.40	6.30	1.10
19.0	27	10.7	6.76	0.84	10.4	6.63	0.91	10.0	6.48	1.00	9.60	6.29	1.10
19.5	27	10.8	6.75	0.84	10.5	6.62	0.91	10.1	6.47	1.00	9.71	6.28	1.10
22.0	30	11.3	6.66	0.85	11.0	6.54	0.92	10.6	6.39	1.01	10.2	6.21	1.11
24.0	32	11.8	6.57	0.85	11.4	6.45	0.93	11.1	6.30	1.02	10.6	6.13	1.12

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#### NOTES

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

(Pair)

Model	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FVQ100
AFR	32.5	23.5	27	24	23	28
(BF)	(0.17)	(0.16)	(0.20)	(0.14)	(0.10)	(0.19)

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
AFR	10.5x2	10x2	11.5x2	13x2
(BF)	(0.28x2)	(0.25x2)	(0.15x2)	(0.2x2)

(Triple)

Model	FCQ35Cx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR	10.5x3	10x3	11.5x3	13x3
(BF)	(0.28x3)	(0.25x3)	(0.15x3)	(0.2x3)

#### 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 heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FVQ100
Cooling	3.56	3.83	3.83	4.15	4.08	4.02
Heating	3.28	3.47	3.47	3.99	3.73	3.99

(Twin)

Model	FCQ50Cx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99



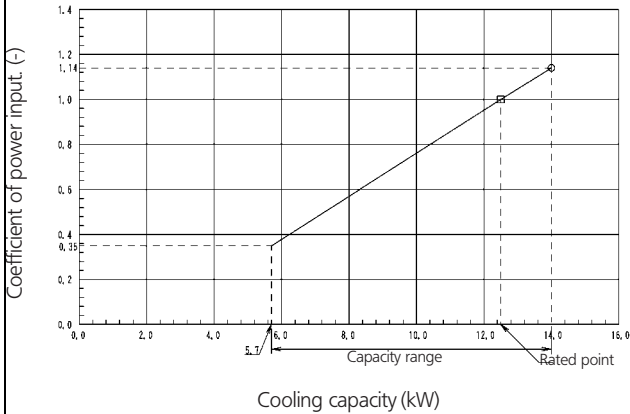
# 5 Capacity tables

## 5 - 2 Cooling capacity tables

5

### RZQS125C

#### Cooling



#### Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB (°C)	EDB (°C)	25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	11.4	7.73	0.76	11.4	7.81	0.89	11.7	8.14	0.99	11.3	7.90	1.09
18.0	25	13.1	8.48	0.83	12.7	8.32	0.91	12.2	8.12	1.00	11.8	7.88	1.10
19.0	27	13.3	8.45	0.84	12.9	8.29	0.91	12.5	8.09	1.00	12.0	7.86	1.10
19.5	27	13.5	8.44	0.84	13.1	8.28	0.91	12.6	8.08	1.00	12.1	7.85	1.10
22.0	30	14.2	8.33	0.85	13.8	8.18	0.92	13.3	7.99	1.01	12.8	7.76	1.11
24.0	32	14.7	8.21	0.85	14.3	8.06	0.93	13.8	7.88	1.02	13.3	7.67	1.12

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#### NOTES

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

#### 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 heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

(Pair)

Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FAQ125	FVQ125
AFR	32.5	27.5	35	30	45	32
(BF)	(0.19)	(0.19)	(0.14)	(0.13)	(0.25)	(0.16)

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR	13.5x2	15x2	19x2	17x2
(BF)	(0.21x2)	(0.11x2)	(0.11x2)	(0.2x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR	12.5x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.15x3)	(0.1x3)

(Double twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	10.5x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.25x4)	(0.15x4)	(0.2x4)

10. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FAQ125	FVQ125
Cooling	3.88	4.14	4.40	4.58	4.45	4.45
Heating	4.11	4.52	4.24	4.96	4.08	4.36

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

(Double twin)

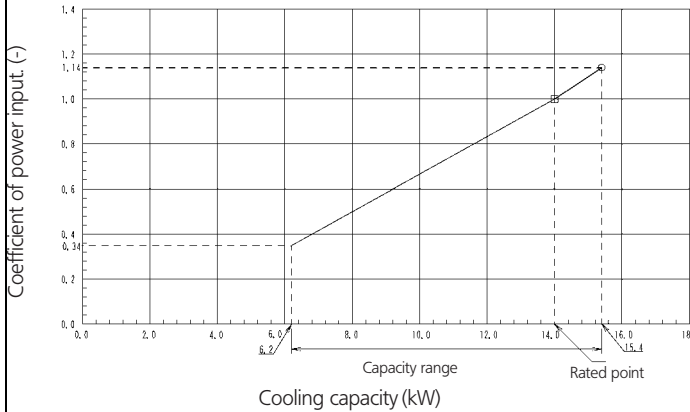
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

# 5 Capacity tables

## 5 - 2 Cooling capacity tables

### RZQS140C (Pair + twin/triple/double twin)

#### Cooling



#### Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB (°C)	EDB (°C)	25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	12.8	8.66	0.76	12.7	8.74	0.89	13.1	9.12	0.99	12.6	8.84	1.09
18.0	25	14.6	9.50	0.83	14.2	9.31	0.91	13.7	9.09	1.00	13.2	8.82	1.10
19.0	27	15.0	9.47	0.84	14.5	9.29	0.91	14.0	9.07	1.00	13.4	8.80	1.10
19.5	27	15.1	9.45	0.84	14.7	9.27	0.91	14.1	9.05	1.00	13.6	8.79	1.10
22.0	30	15.9	9.33	0.85	15.4	9.16	0.92	14.9	8.95	1.01	14.3	8.69	1.11
24.0	32	16.5	9.20	0.85	16.0	9.03	0.93	15.5	8.83	1.02	14.9	8.59	1.12

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#### NOTES

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

(Pair)

Model	FCQH140C	FCQ140C
AFR	32.5	27.5
(BF)	(0.20)	(0.22)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR	12.5x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.15x3)	(0.1x3)

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH140C	FCQ140C
Cooling	4.98	5.36
Heating	4.98	5.69

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70

#### 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 heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

#### Caution:

TC and SHC are shown by kW

(Twin)

Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2
AFR	15.5x2	19x2	17x2	19x2
(BF)	(0.19x2)	(0.11x2)	(0.1x2)	(0.08x2)

(Double twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	10.5x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.25x4)	(0.15x4)	(0.2x4)

(Twin)

Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2
Cooling	5.36	5.21	5.25	5.25
Heating	5.55	5.64	5.70	5.63

(Double twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70

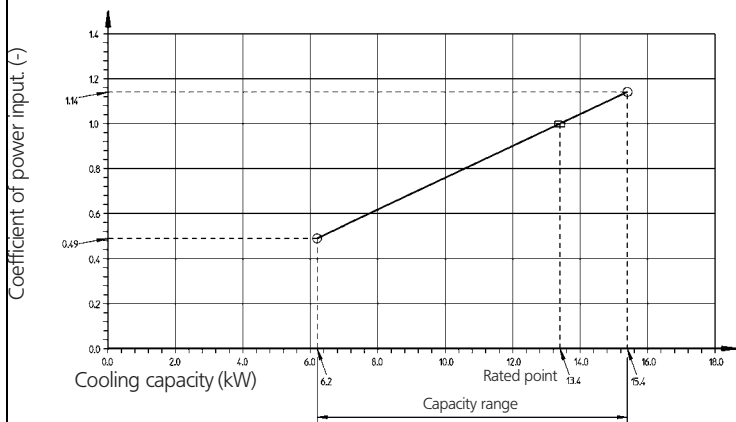
# 5 Capacity tables

## 5 - 2 Cooling capacity tables

5

### RZQS140C (Pair)

#### Cooling



#### Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB (°C)	EDB (°C)	25			30			35			40		
		TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	12.3	8.29	0.76	12.2	8.37	0.89	12.5	8.73	0.99	12.1	8.46	1.09
18.0	25	14.0	9.09	0.83	13.6	8.91	0.91	13.1	8.70	1.00	12.6	8.44	1.10
19.0	27	14.4	9.06	0.84	13.9	8.89	0.91	13.4	8.68	1.00	12.8	8.42	1.10
19.5	27	14.5	9.05	0.84	14.1	8.87	0.91	13.5	8.66	1.00	13.0	8.41	1.10
22.0	30	15.2	8.93	0.85	14.7	8.77	0.92	14.3	8.57	1.01	13.7	8.32	1.11
24.0	32	15.8	8.81	0.85	15.3	8.64	0.93	14.8	8.45	1.02	14.3	8.22	1.12

3TW28149-1

#### NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark ○ show the max. at standard conditions.  
On the figure the mark □ show rated capacity and rated coefficient of power input. However the max. capacity is not guaranteed, except at standard condition.
- On the tables □ show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $SHC^* = 0.02 \times AFR (m^3/min.) \times (1 - BF) \times (DB^* - EDB)$   
 Add SHC\* to SHC.
- Capacities are based on following conditions:  
 Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
 Corresponding refrigerant piping length : 7.5 m  
 Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

(Pair)

	FBQ140
AFR	35
BF	(0.14)

- Rated power input of each model is tabulated below.

(Pair)

Outdoor	RZQS140C7
Indoor	FBQ140B8
Cooling	4.97kW
Heating	4.99kW

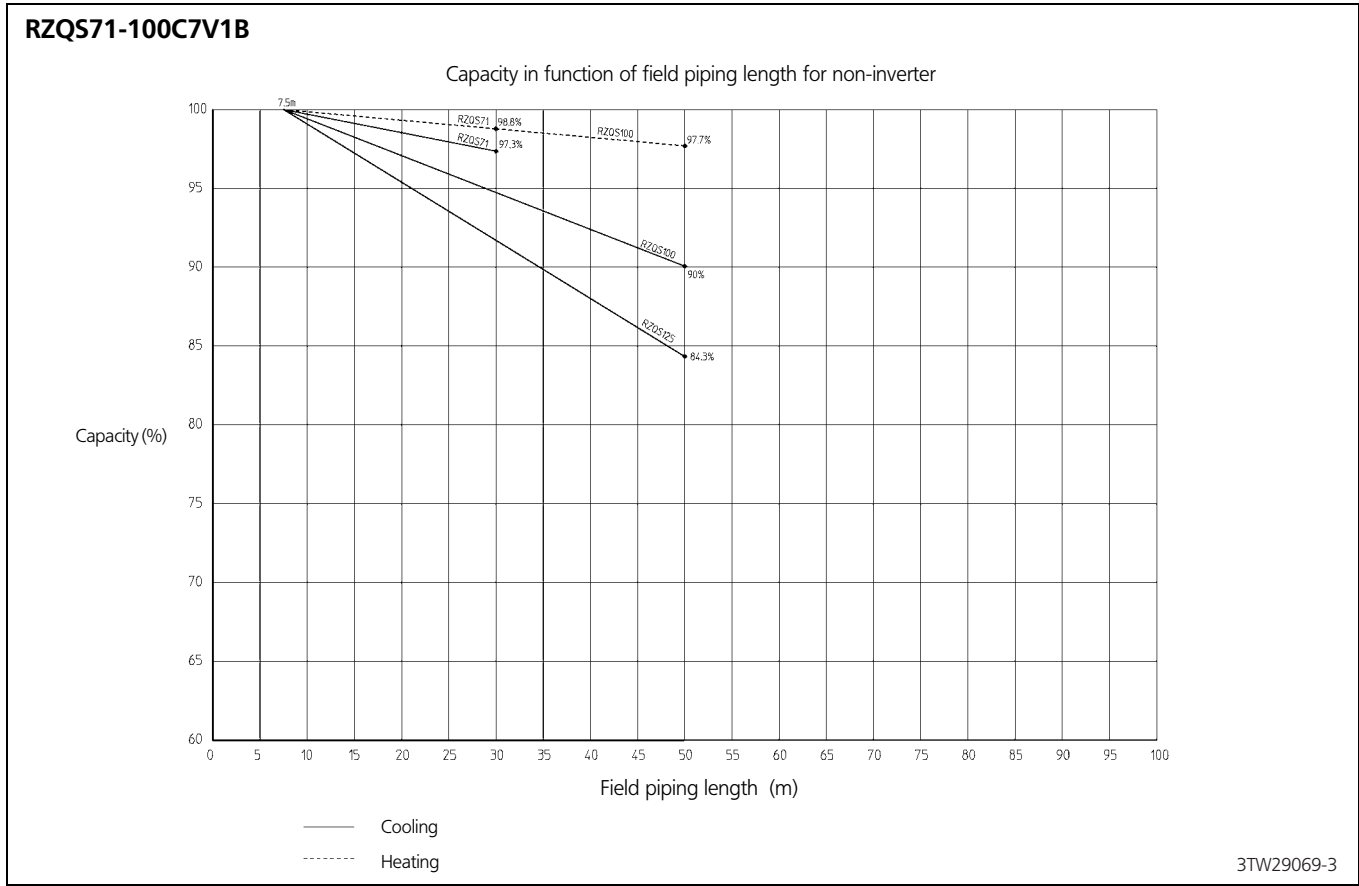
#### SYMBOLS

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 heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input	(-)

**Caution:**  
TC and SHC are shown by kW

# 5 Capacity tables

## 5 - 2 Cooling capacity tables



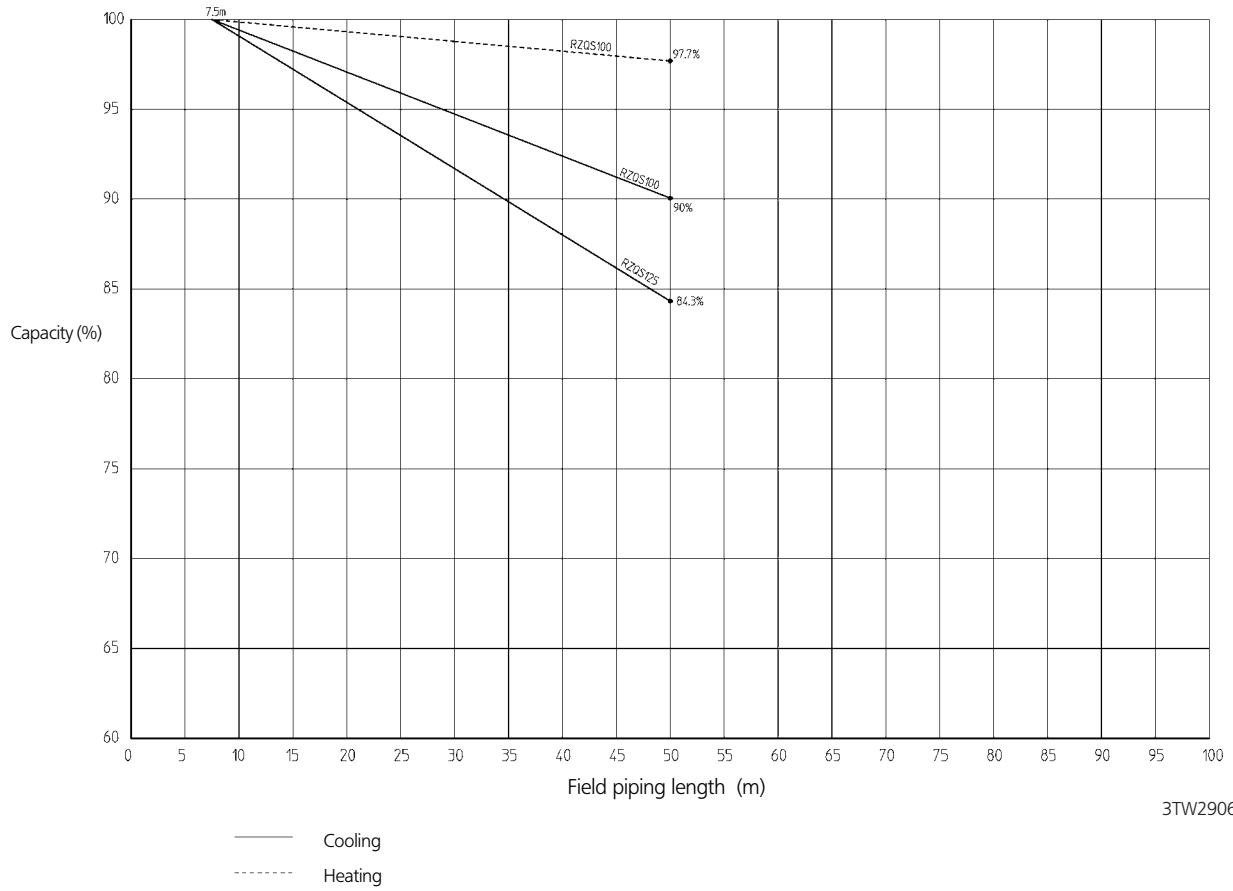
# 5 Capacity tables

## 5 - 2 Cooling capacity tables

5

### RZQS125-140C

Capacity in function of field piping length for non-inverter



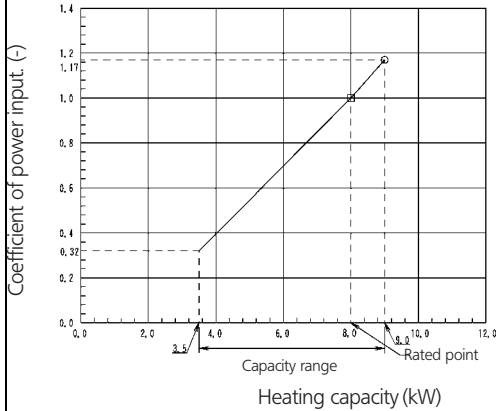
3TW29069-3

# 5 Capacity tables

## 5 - 3 Heating capacity tables

### RZQS71C

#### Heating



#### Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB)									
	-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	5.68	1.12	6.22	1.17	6.75	1.23	8.02	0.92	8.64	0.97
18.0	5.67	1.16	6.21	1.22	6.74	1.28	8.01	0.96	8.62	1.01
20.0	5.67	1.21	6.20	1.27	6.74	1.33	8.00	1.00	8.61	1.05
21.0	5.66	1.23	6.20	1.29	6.73	1.35	8.00	1.02	8.61	1.07
22.0	5.66	1.25	6.19	1.32	6.73	1.28	7.99	1.04	8.60	1.09
24.0	5.65	1.30	6.19	1.36	6.72	1.43	7.98	1.08	8.59	1.13

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#### NOTES

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

(Pair)

Model	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
AFR	20	15.5	19	17	19	18
(BF)	(0.17)	(0.19)	(0.11)	(0.10)	(0.08)	(0.16)

(Multi)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
AFR	10.5x2	10x2	11.5x2	13x2
(BF)	(0.28x2)	(0.25x2)	(0.15x2)	(0.2x2)

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
Cooling	2.36	2.46	2.52	2.53	2.53	2.53
Heating	2.34	2.61	2.40	2.85	2.61	2.49

(Multi)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.59	2.61	2.57	2.66
Heating	2.75	2.70	2.47	2.85

#### 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 heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

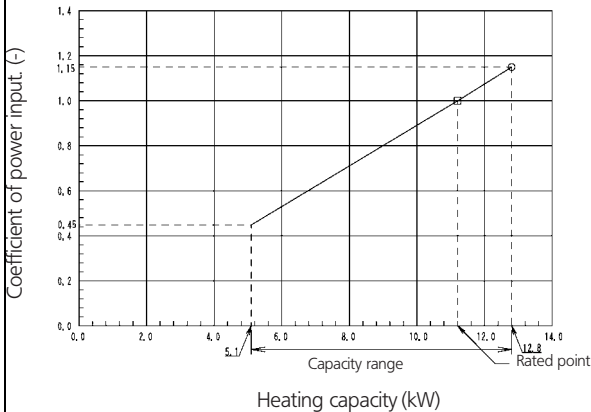
# 5 Capacity tables

## 5 - 3 Heating capacity tables

5

### RZQS100C

#### Heating



#### Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB)									
	-10		-5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	7.91	1.07	8.66	1.12	9.41	1.17	11.2	0.92	12.1	0.97
18.0	7.90	1.11	8.65	1.16	9.39	1.22	11.2	0.96	12.1	1.01
20.0	7.89	1.15	8.64	1.21	9.38	1.27	11.2	1.00	12.1	1.05
21.0	7.89	1.17	8.63	1.23	9.38	1.29	11.2	1.02	12.1	1.07
22.0	7.88	1.20	8.63	1.26	9.37	1.32	11.2	1.04	12.0	1.09
24.0	7.87	1.24	8.62	1.30	9.36	1.36	11.2	1.08	12.0	1.13

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#### NOTES

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

(Pair)

Model	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FVQ100
AFR	32.5	23.5	27	24	23	28
(BF)	(0.17)	(0.16)	(0.20)	(0.14)	(0.10)	(0.19)

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
AFR	10.5x2	10x2	11.5x2	13x2
(BF)	(0.28x2)	(0.25x2)	(0.15x2)	(0.2x2)

(Triple)

Model	FCQ35Cx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR	10.5x3	10x3	11.5x3	13x3
(BF)	(0.28x3)	(0.25x3)	(0.15x3)	(0.2x3)

#### 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 heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FVQ100
Cooling	3.56	3.83	3.83	4.15	4.08	4.02
Heating	3.28	3.47	3.47	3.99	3.73	3.99

(Twin)

Model	FCQ50Cx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

(Triple)

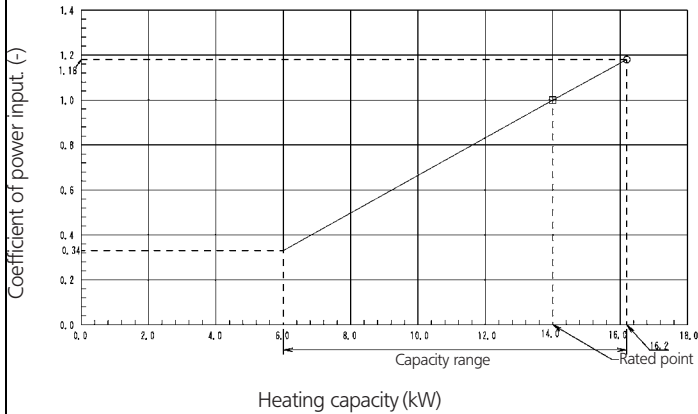
Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

# 5 Capacity tables

## 5 - 3 Heating capacity tables

### RZQS125C

#### Heating



#### Heating capacity

Indoor EDB (°C)	Outdoor temp. (°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 (-)
16.0	8.83	1.05	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	8.82	1.10	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	8.81	1.14	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	8.81	1.16	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	8.80	1.18	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	8.79	1.22	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

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#### NOTES

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On the figure the mark □ show rated capacity and rated coefficient of power input.  
However the max. capacity is not guaranteed, except at standard condition.
- On the tables □ show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB  
SHC\* = SHC correction for other dry bulb  
SHC\* = 0.02 x AFR (m<sup>3</sup>/min.) x (1-BF) x (DB\*-EDB)  
Add SHC\* to SHC.
- Capacities are based on following conditions:  
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
Corresponding refrigerant piping length : 5.0 m  
Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FAQ125	FVQ125
AFR	32.5	27.5	35	30	45	32
(BF)	(0.19)	(0.19)	(0.14)	(0.13)	(0.25)	(0.16)

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR	13.5x2	15x2	19x2	17x2
(BF)	(0.21x2)	(0.11x2)	(0.11x2)	(0.2x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR	12.5x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.15x3)	(0.1x3)

(Double twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	10.5x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.25x4)	(0.15x4)	(0.2x4)

#### 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 heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FAQ125	FVQ125
Cooling	3.88	4.14	4.40	4.58	4.45	4.45
Heating	4.11	4.52	4.24	4.96	4.08	4.36

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

(Double twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92



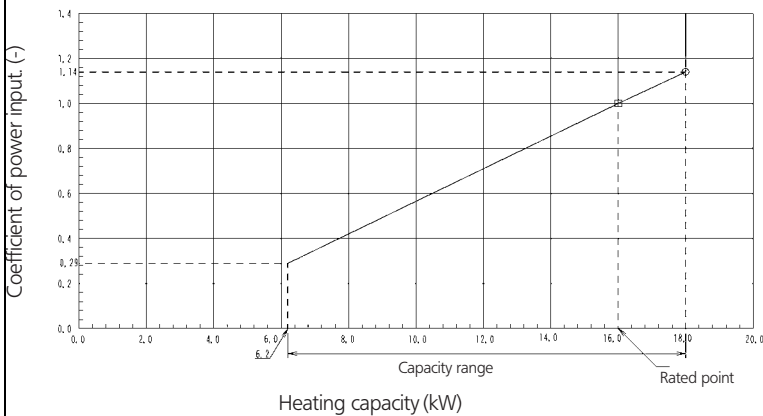
# 5 Capacity tables

## 5 - 3 Heating capacity tables

5

### RZQS140C (Pair + twin/triple/double twin)

#### Heating



#### Heating capacity

EDB (°C)	Outdoor temp. (°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 (-)
16.0	9.82	1.05	10.8	1.11	11.9	1.16	12.9	1.22	16.0	0.92	17.3	0.97
18.0	9.80	1.10	10.8	1.15	11.8	1.21	12.9	1.27	16.0	0.96	17.2	1.01
20.0	9.79	1.14	10.8	1.20	11.8	1.26	12.9	1.32	16.0	1.00	17.2	1.05
21.0	9.79	1.16	10.8	1.22	11.8	1.28	12.8	1.34	16.0	1.02	17.2	1.07
22.0	9.78	1.18	10.8	1.24	11.8	1.31	12.8	1.37	16.0	1.04	17.2	1.09
24.0	9.77	1.22	10.8	1.29	11.8	1.35	12.8	1.42	16.0	1.08	17.2	1.13

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#### NOTES

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

(Pair)

Model	FCQH140C	FCQ140C
AFR	32.5	27.5
(BF)	(0.20)	(0.22)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR	12.5x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.15x3)	(0.1x3)

- Rated power input of each model is tabulated below.

(Pair)

Model	FCQH140C	FCQ140C
Cooling	4.98	5.36
Heating	4.98	5.69

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70

#### 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 heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

(Twin)

Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2
AFR	15.5x2	19x2	17x2	19x2
(BF)	(0.19x2)	(0.11x2)	(0.1x2)	(0.08x2)

(Double twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	10.5x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.25x4)	(0.15x4)	(0.2x4)

(Twin)

Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2
Cooling	5.36	5.21	5.25	5.25
Heating	5.55	5.64	5.70	5.63

(Double twin)

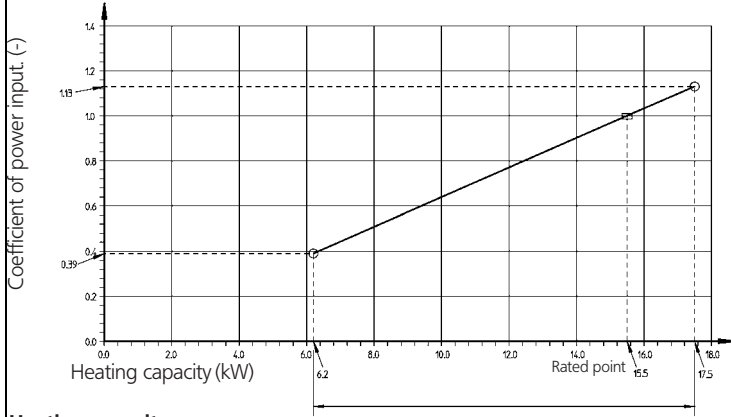
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70

# 5 Capacity tables

## 5 - 3 Heating capacity tables

### RZQS140C (Pair)

#### Heating



#### Heating capacity

Indoor EDB (°C)	Outdoor temp. (°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 (-)
16.0	9.51	1.05	10.5	1.11	11.5	1.16	12.5	1.22	15.5	0.92	16.8	0.97
18.0	9.49	1.10	10.5	1.15	11.4	1.21	12.5	1.27	15.5	0.96	16.7	1.01
20.0	9.48	1.14	10.5	1.20	11.4	1.26	12.5	1.32	15.5	1.00	16.7	1.05
21.0	9.48	1.16	10.5	1.22	11.4	1.28	12.4	1.34	15.5	1.02	16.7	1.07
22.0	9.47	1.18	10.5	1.24	11.4	1.31	12.4	1.37	15.5	1.04	16.7	1.09
24.0	9.46	1.22	10.5	1.29	11.4	1.35	12.4	1.42	15.5	1.08	16.7	1.13

3TW28149-1

#### NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- On the figure the mark ○ show the max. at standard conditions.  
On the figure the mark □ show rated capacity and rated coefficient of power input. However the max. capacity is not guaranteed, except at standard condition.
- On the tables □ show rated capacity and rated coefficient of power input.
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $SHC^* = 0.02 \times AFR (m^3/min.) \times (1-BF) \times (DB^*-EDB)$   
 Add  $SHC^*$  to SHC.
- Capacities are based on following conditions:  
 Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
 Corresponding refrigerant piping length : 7.5 m  
 Level difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
- The value contains less than 5% error according to indoor unit type.
- Heating capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

(Pair)

	FBQ140
AFR (BF)	35 (0.14)

- Rated power input of each model is tabulated below.

(Pair)

Outdoor	RZQS140C7
Indoor	FBQ140B8
Cooling	4.97kW
Heating	4.99kW

#### 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 heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

**Caution:**  
TC and SHC are shown by kW

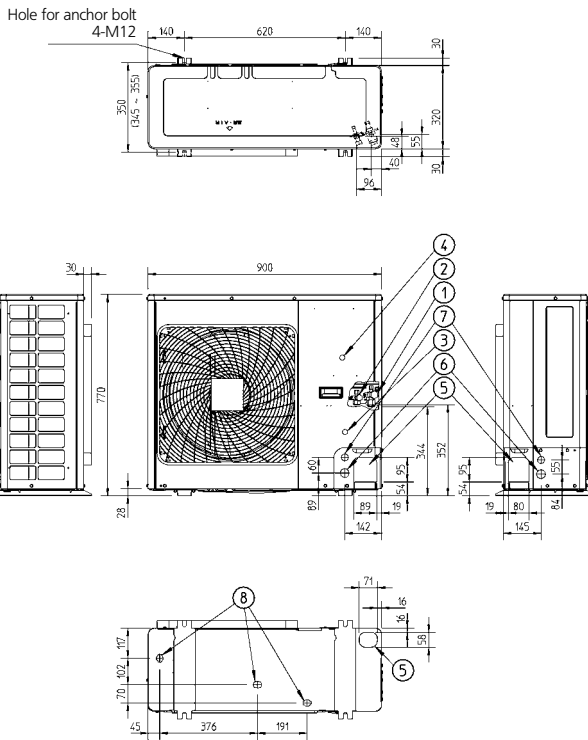
# 6 Dimensional drawing & centre of gravity

## 6 - 1 Dimensional drawing

6

RZQS71-100C

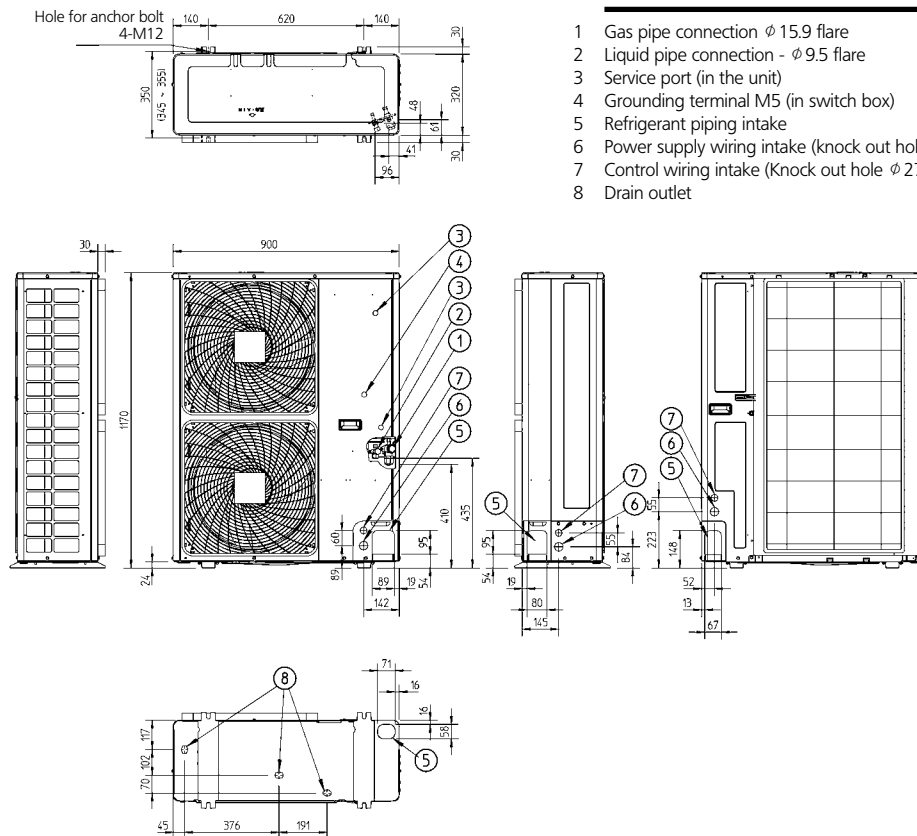
unit (mm)



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

3TW25144-1A

RZQS125-140C



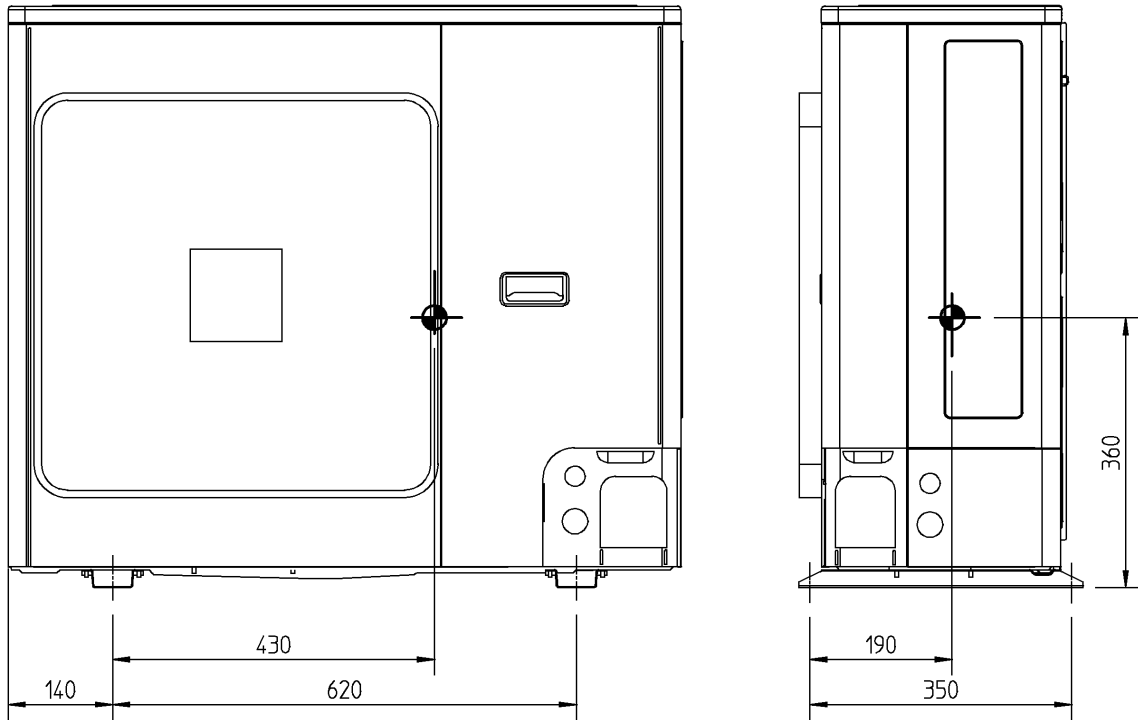
- 1 Gas pipe connection  $\phi$  15.9 flare
- 2 Liquid pipe connection -  $\phi$  9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole  $\phi$  34)
- 7 Control wiring intake (Knock out hole  $\phi$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

3TW26364-1

## 6 Dimensional drawing & centre of gravity

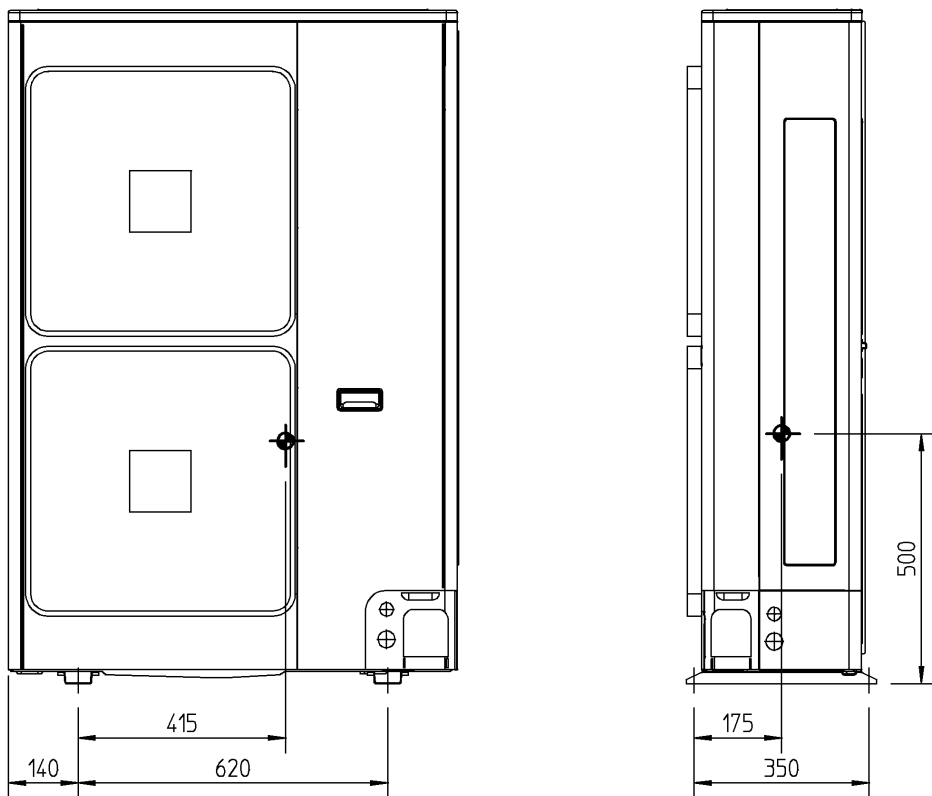
### 6 - 2 Centre of gravity

RZQS71-100C7V1B



4TW30469-3

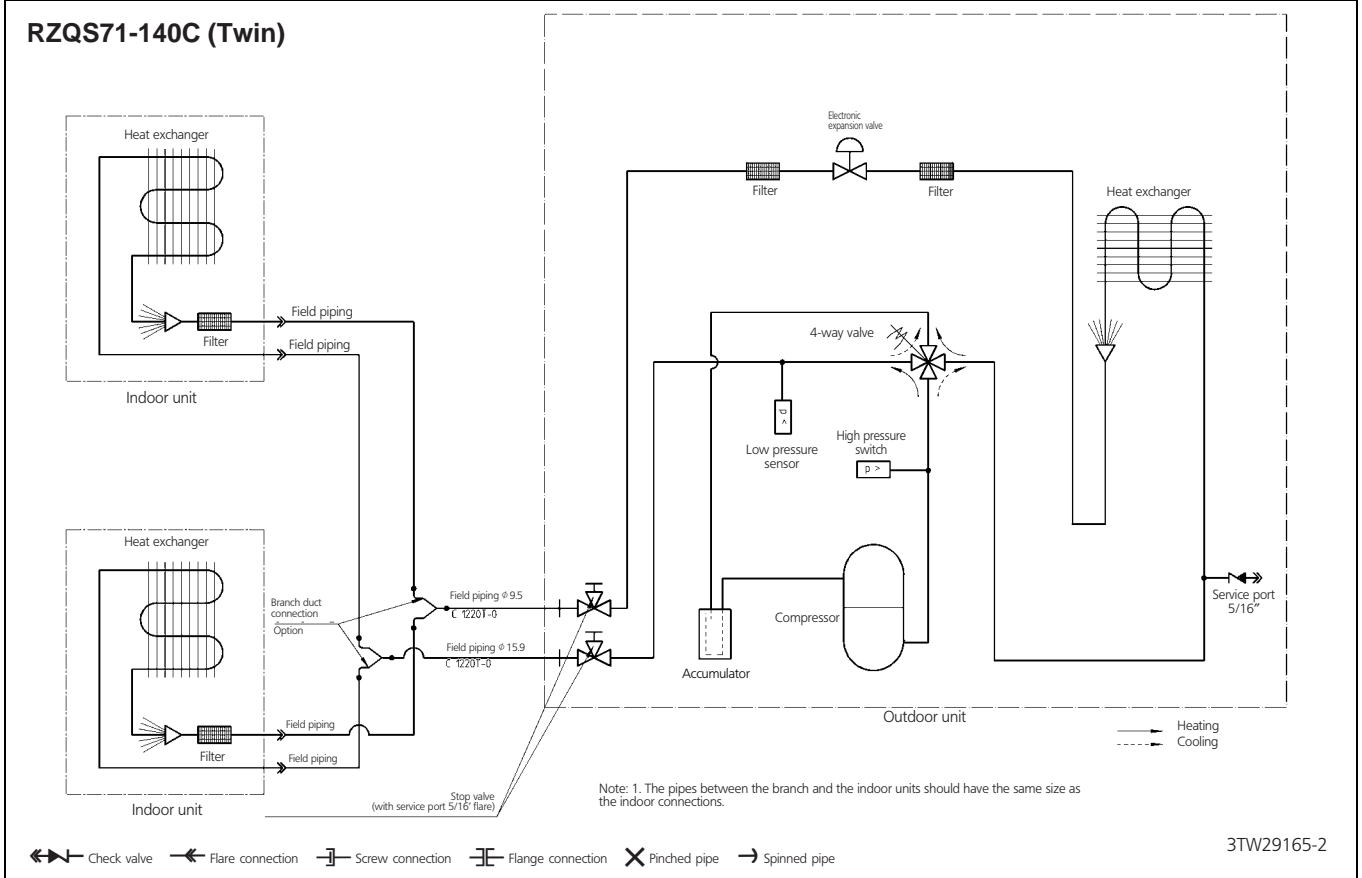
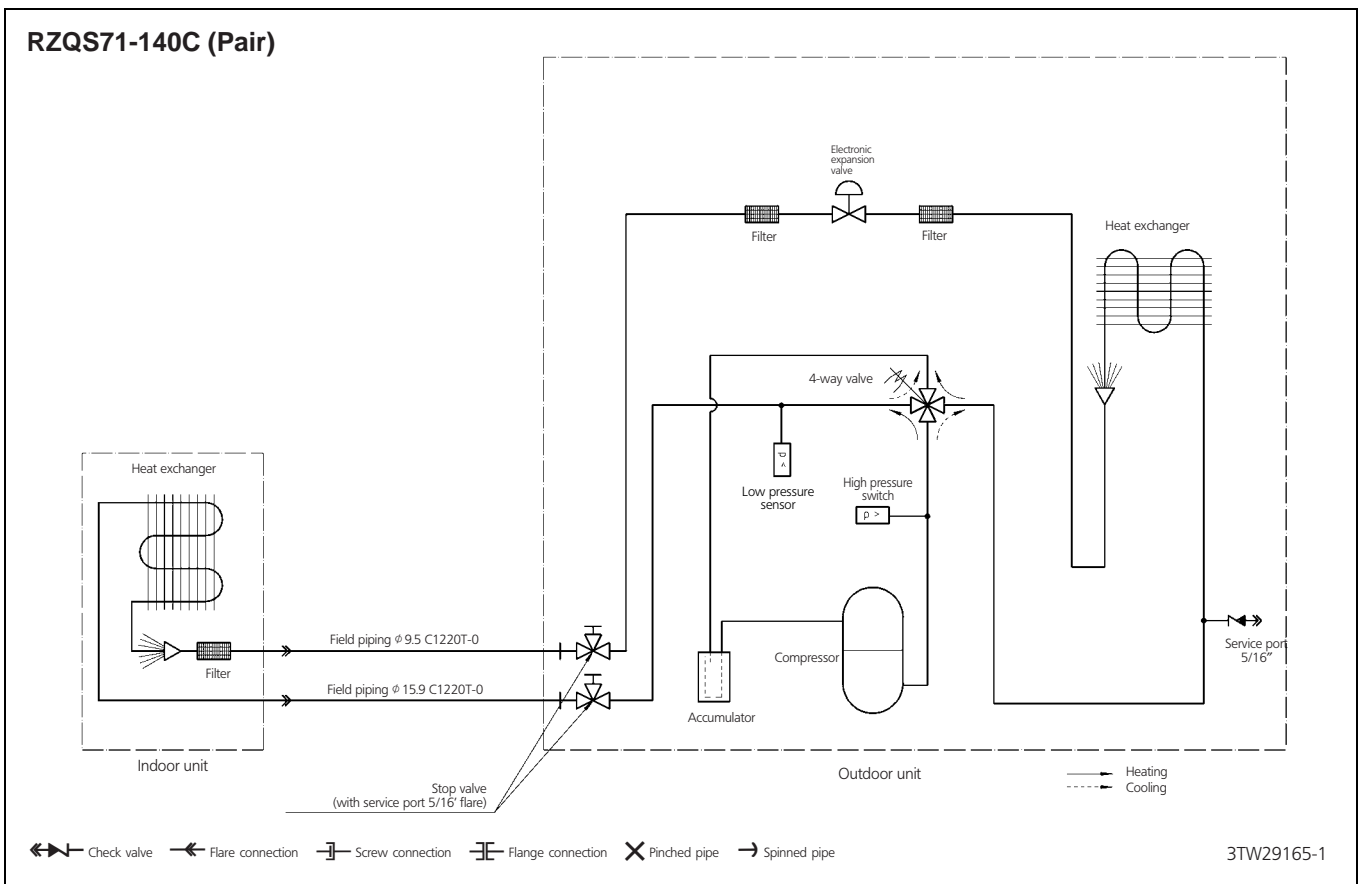
RZQS125-140C



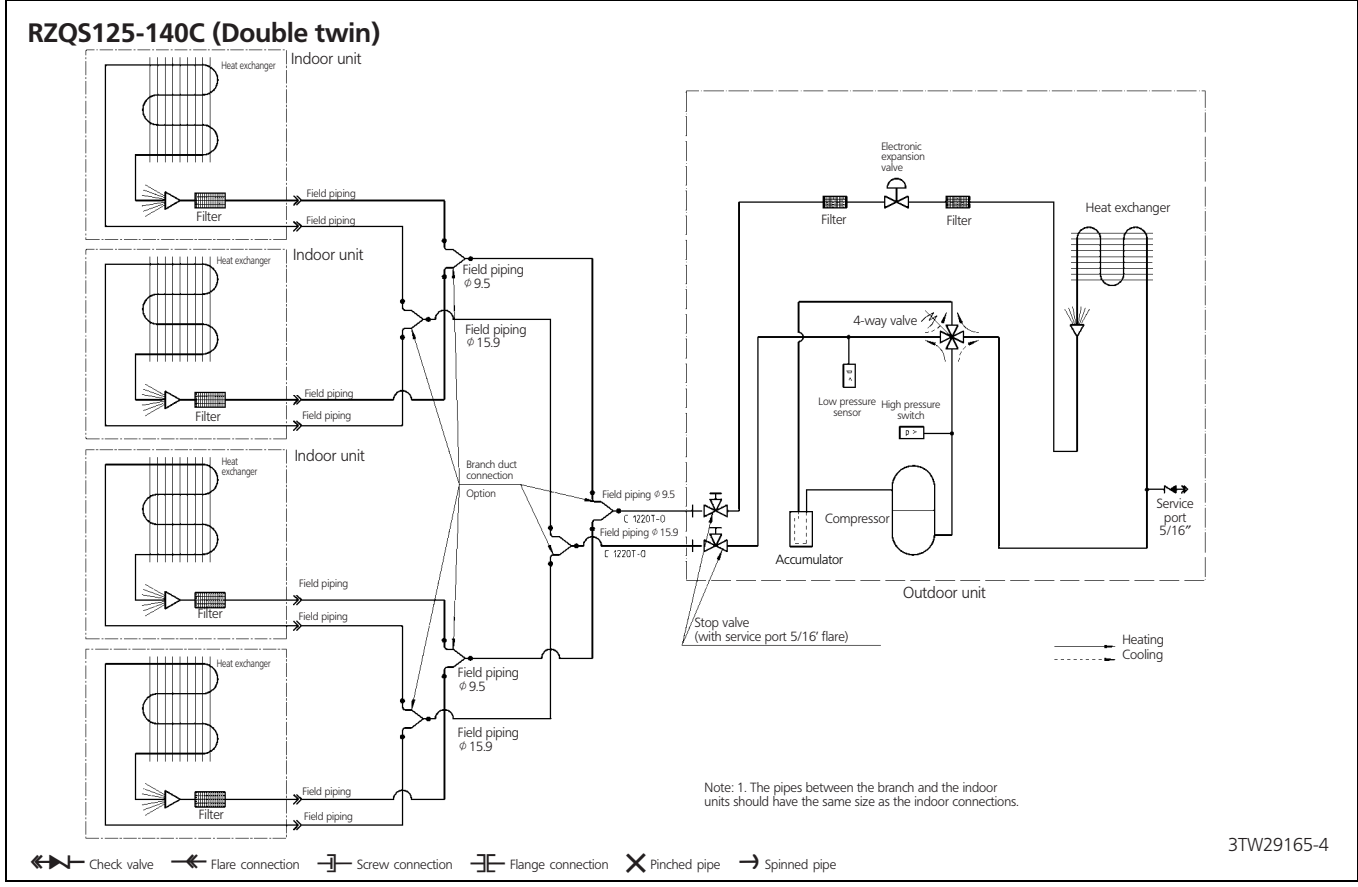
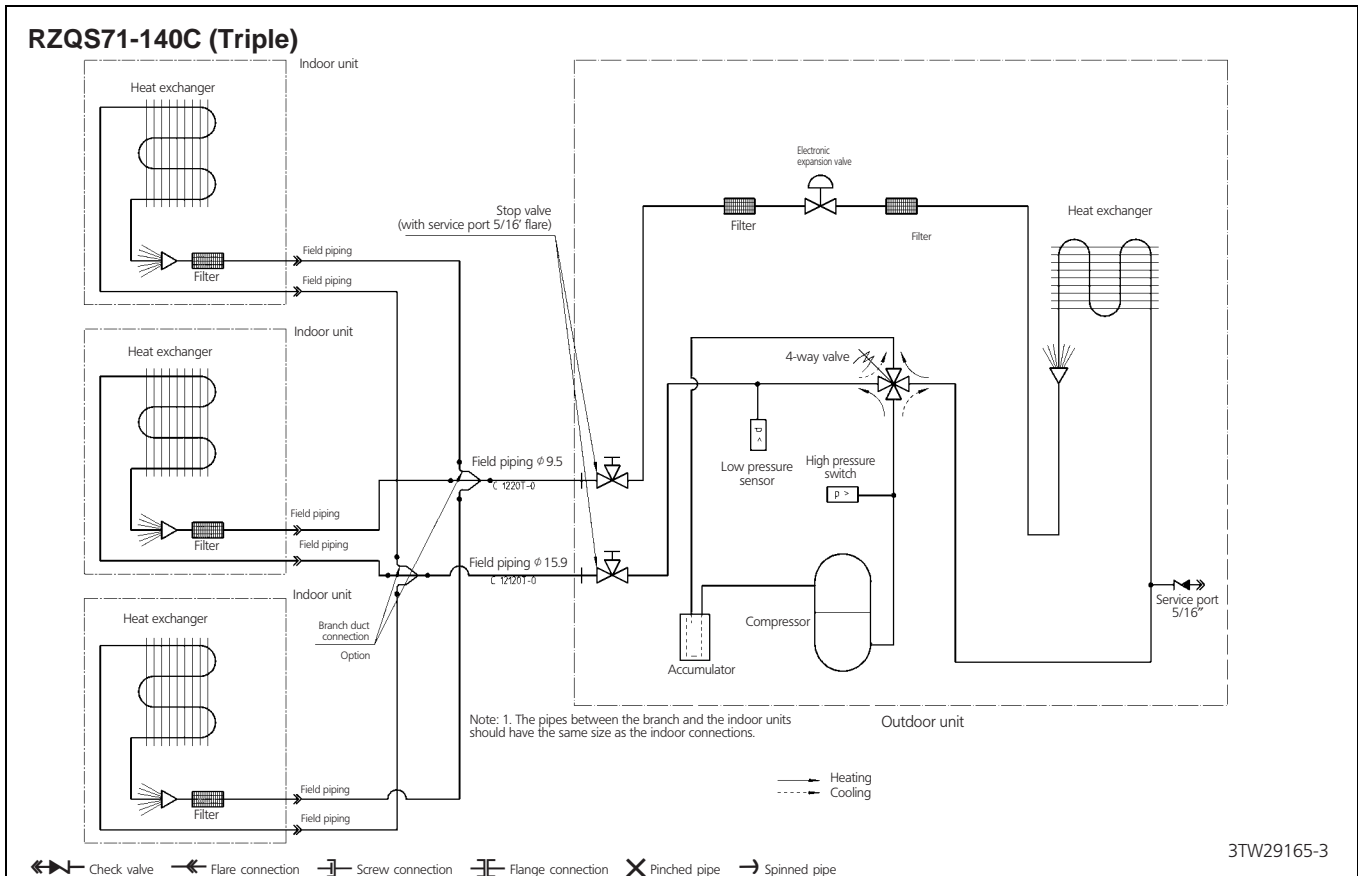
4TW29169-4

# 7 Piping diagram

7



# 7 Piping diagram



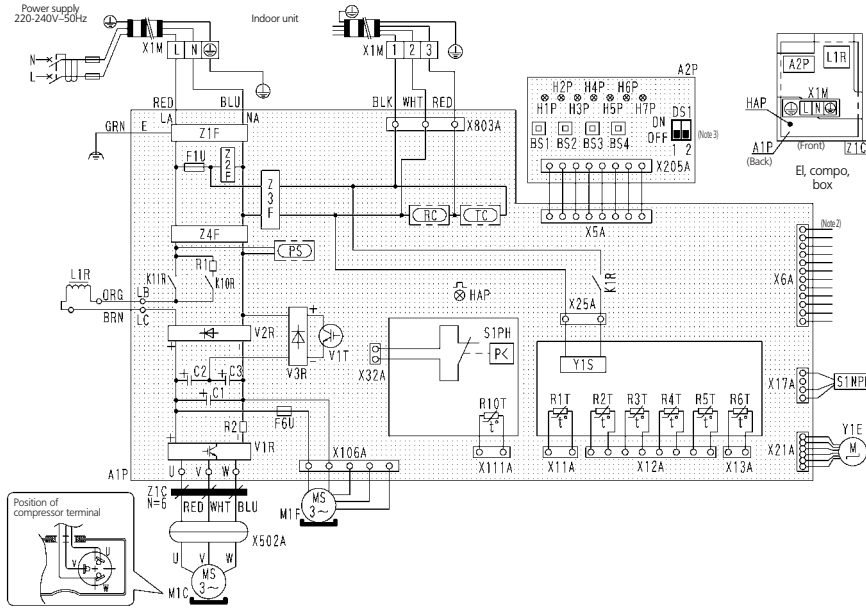
# 8 Wiring diagram

## 8 - 1 Wiring diagram

8

### RZQS71C7V1B

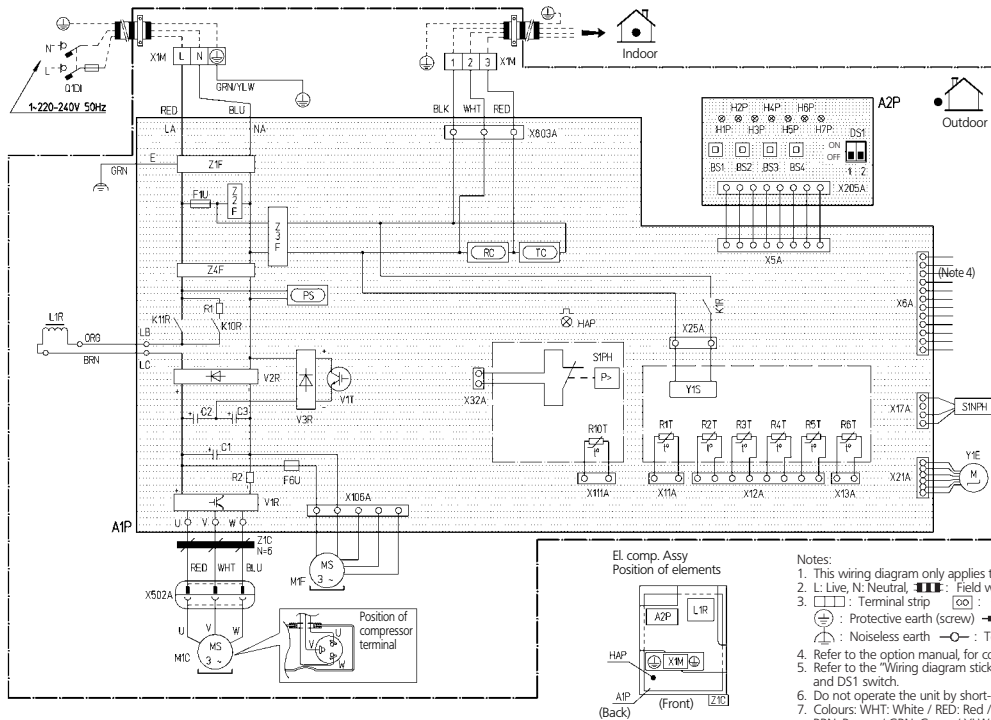
- A1P : Printed circuit board
- A2P : Printed circuit board
- BS1-BS4 : Push button switch
- C1-3 : Capacitor
- DS1 : Dip switch
- F1U : Fuse (T 6.3A/250V)
- F6U : Fuse (T 5.0A/250V)
- H1P-H2P(H1P) : Pilot lamp (service monitor-orange)
- HAP : Flashing lamp (service monitor-green)
- K1R : Magnetic relay (Y1S)
- K10R : Magnetic relay
- K11R : Magnetic relay
- L1R : Reactor
- M1C : Motor (compressor)
- M1F : Motor (fan)
- PS : Switching power supply
- R1 : Resistor
- R2 : Resistor
- R1T : Thermistor (Air)
- R2T : Thermistor (M1C Discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Coil)
- R5T : Thermistor (Coil middle)
- R6T : Thermistor (Liquid)
- RC : Signal receiver circuit
- R10T : Thermistor (fin)
- S1NPH : Pressure sensor(High)
- S1PH : Pressure switch (High)
- TC : Signal transmission circuit
- V1R : Power module
- V2R/V3R : Diode bridge
- V1T : IGBT
- X1M : Terminal block
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C : Noise filter (ferite core)
- Z1F-4F : Noise filter



- Notes:
1. : Field wiring : Terminal block : Connector
  2. Refer to the optional manual, for connection wiring to X6A.
  3. The positions of the selector switches (DS1) indicate factory setting. Refer to the service manual in detail.
  4. Colours: WHT: White / RED: Red / BLU: Blue / GRY: Gray / GRN: Green / YLW: Yellow / ORG: Orange / BLK: Black

3D058404C

### RZQS71-100C



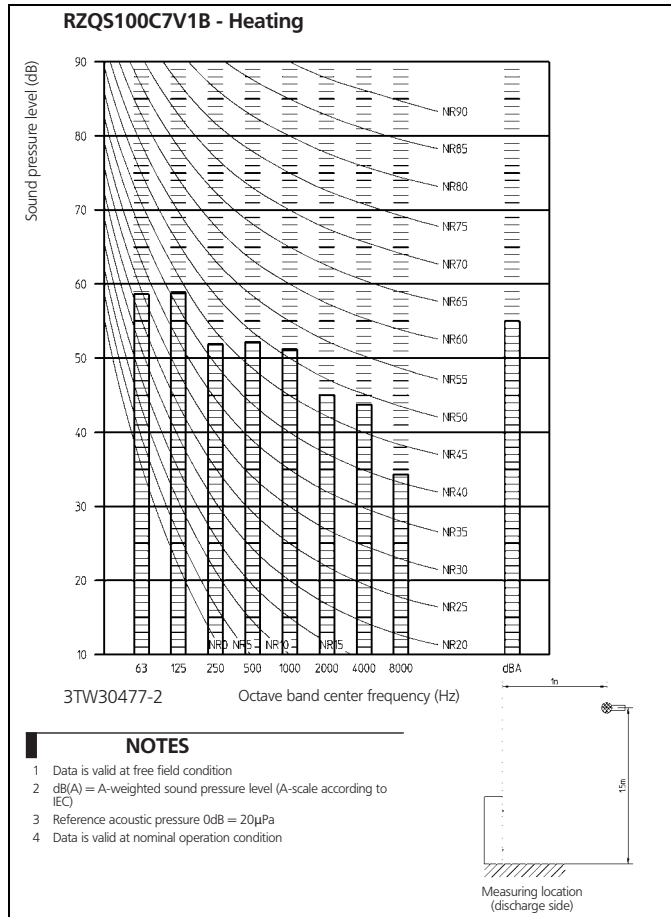
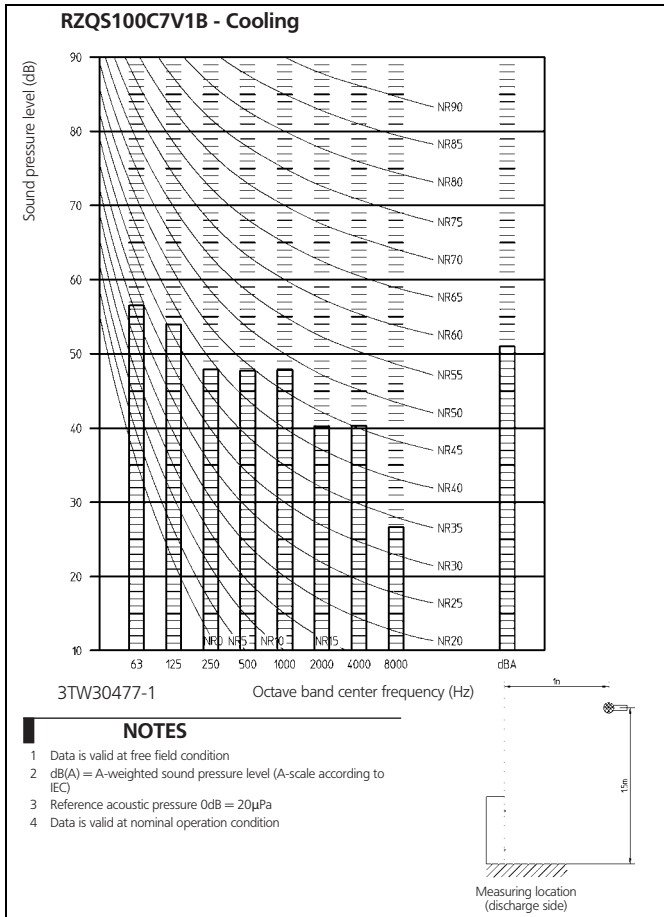
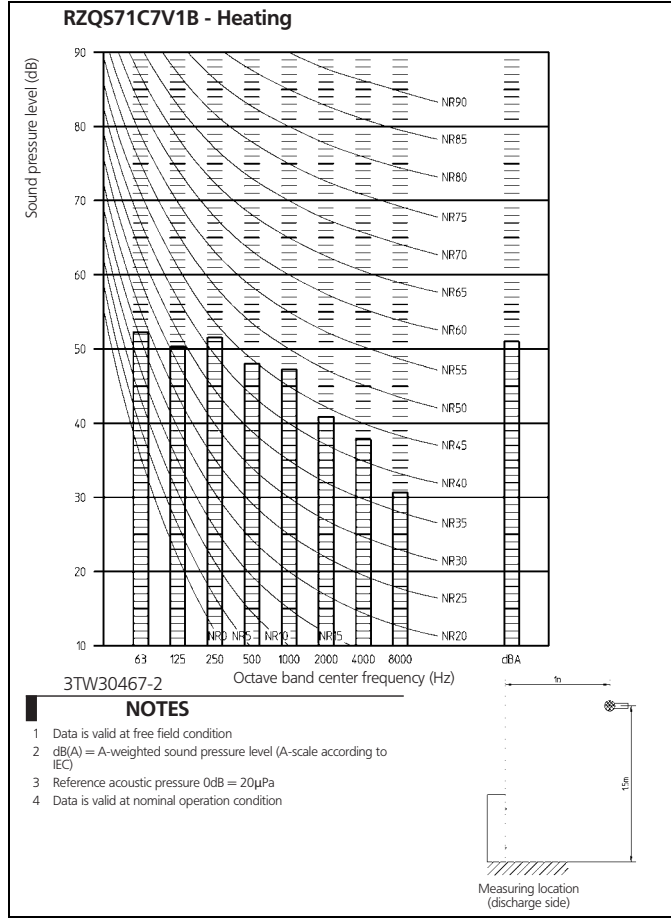
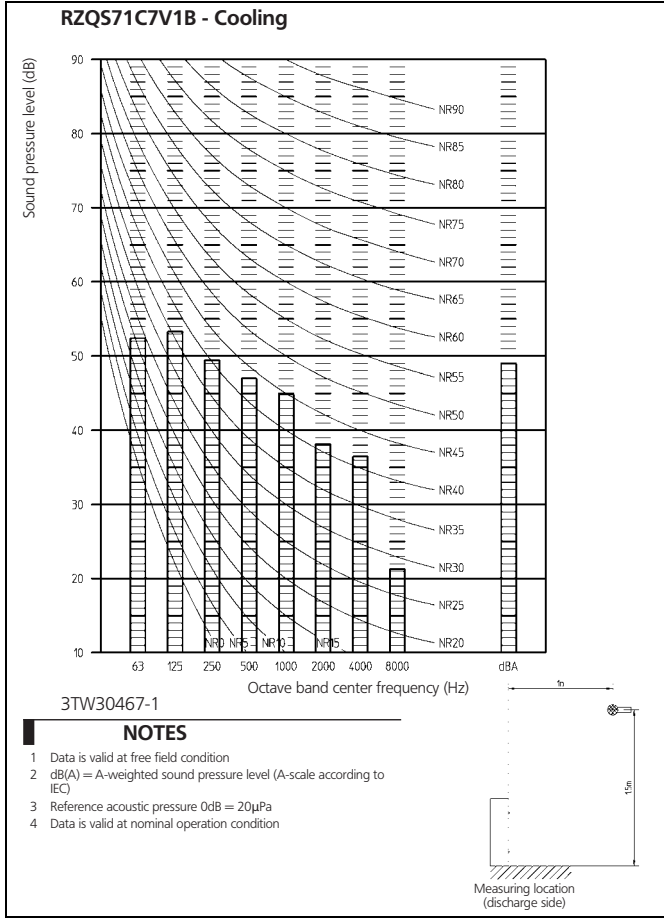
- A1P : Printed circuit board (Main)
- A2P : Printed circuit board (Inverter)
- BS1-BS4 : Push button switch
- C1-3 : Capacitor
- DS1 : Dip switch
- F1U : Fuse (T 6.3A / 250V)
- F6U : Fuse (T 3.15A / 250V)
- H1P-7P(A2P) : Light emitting diode (service monitor orange)
- HAP(A1P) : Light emitting diode (service monitor green)
- K1R : Magnetic relay (Y1S)
- K10R : Magnetic relay
- K11R : Magnetic relay
- L1R : Reactor
- M1C : Motor (compressor)
- M1F : Motor (fan)
- PS : Field earth leakage breaker (30mA)
- R1 : Resistor
- R2 : Resistor
- R1T : Thermistor (air)
- R2T : Thermistor (discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Heat exchanger)
- R5T : Thermistor (Thermistor (heat exchanger middle)
- R6T : Thermistor (liquid)
- R10T : Thermistor (fin)
- RC : Signal receiver circuit
- S1NPH : Pressure sensor
- S1PH : Pressure switch (High)
- TC : Signal transmission circuit
- V1R : Power module
- V2R/V3R : Diode module
- V1T : IGBT
- X1M : Terminal strip (Power supply)
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C : Noise filter (ferite core)
- Z1F-4F : Noise filter

- Notes:
1. This wiring diagram only applies to the outdoor unit
  2. L: Live, N: Neutral, : Field wiring
  3. : Terminal strip : Connector : Connection : Protective earth (screw) : Relay connector : Noiseless earth : Terminal
  4. Refer to the option manual for connecting wiring to x6A.
  5. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1- BS4 and DS1 switch.
  6. Do not operate the unit by short-circuiting protection device S1PH
  7. Colours: WHT: White / RED: Red / BLU: Blue / ORG: Orange  
BRN: Brown / GRN: Green / YLW: Yellow
  8. Confirm the method of setting the selector switches (DS1) by service manual.  
Factory setting of all switches: "OFF".

2TW30466-1B

# 9 Sound data

## 9 - 1 Sound pressure spectrum

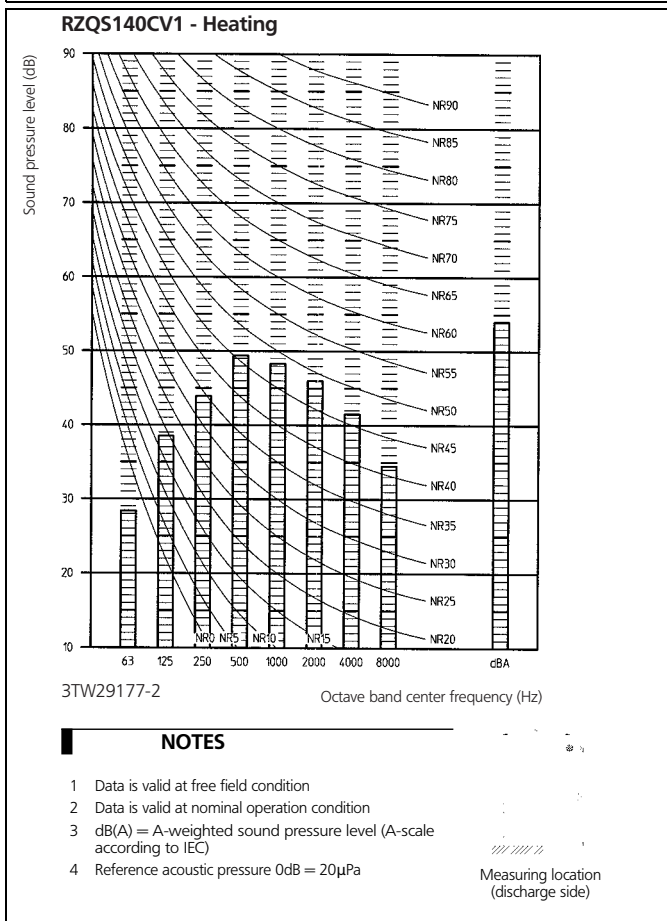
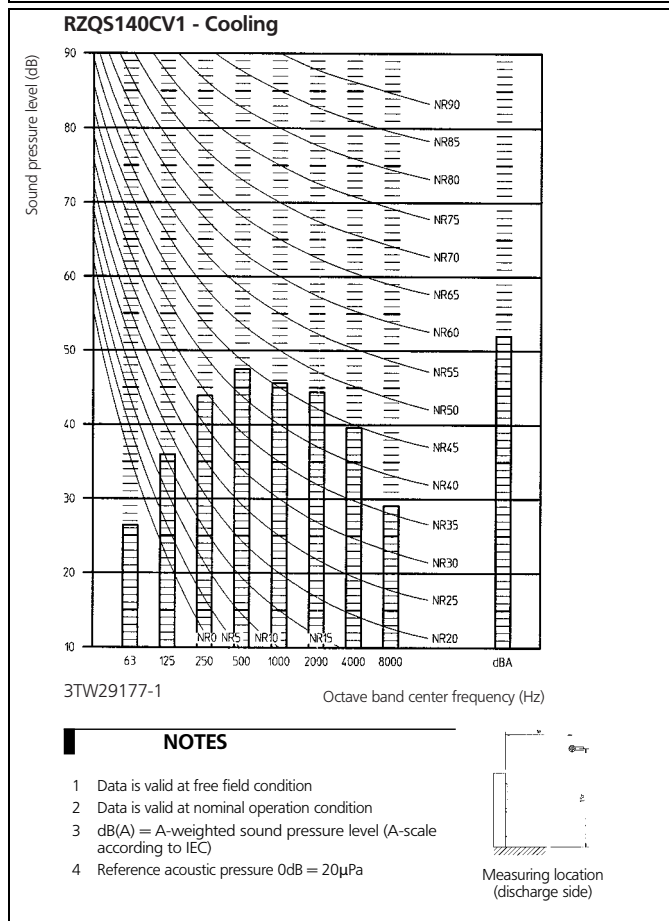
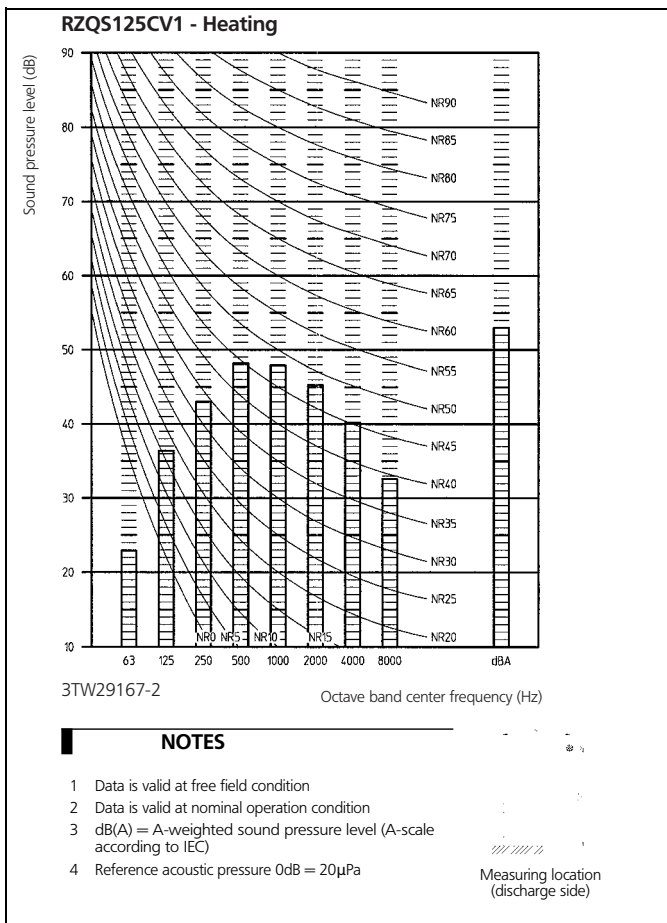
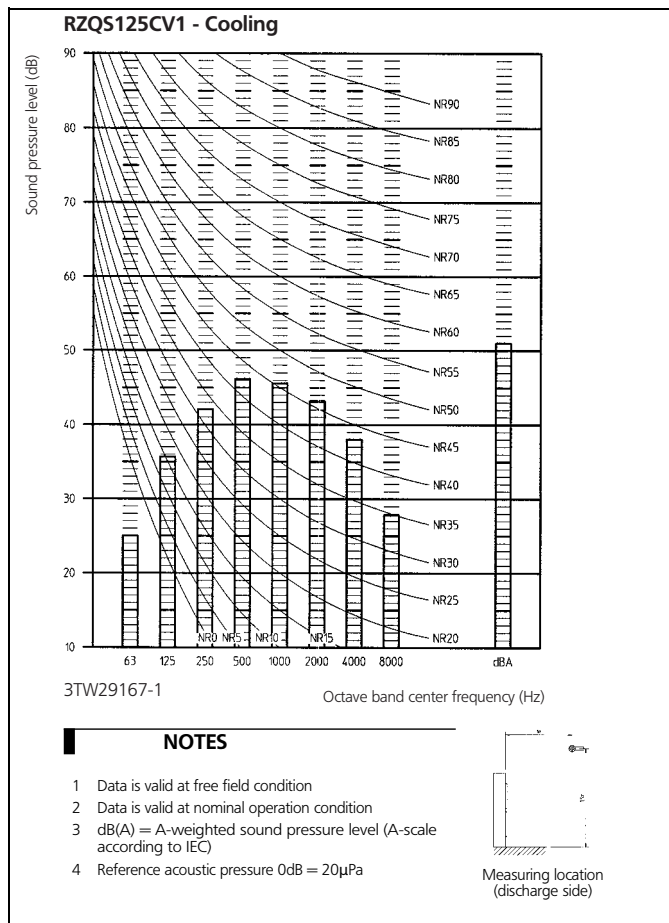




# 9 Sound data

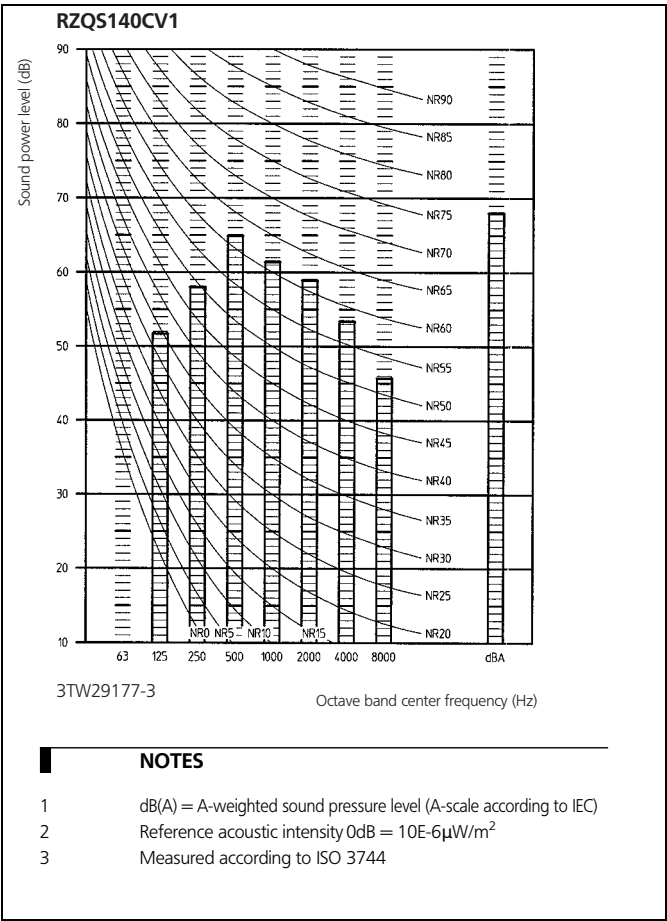
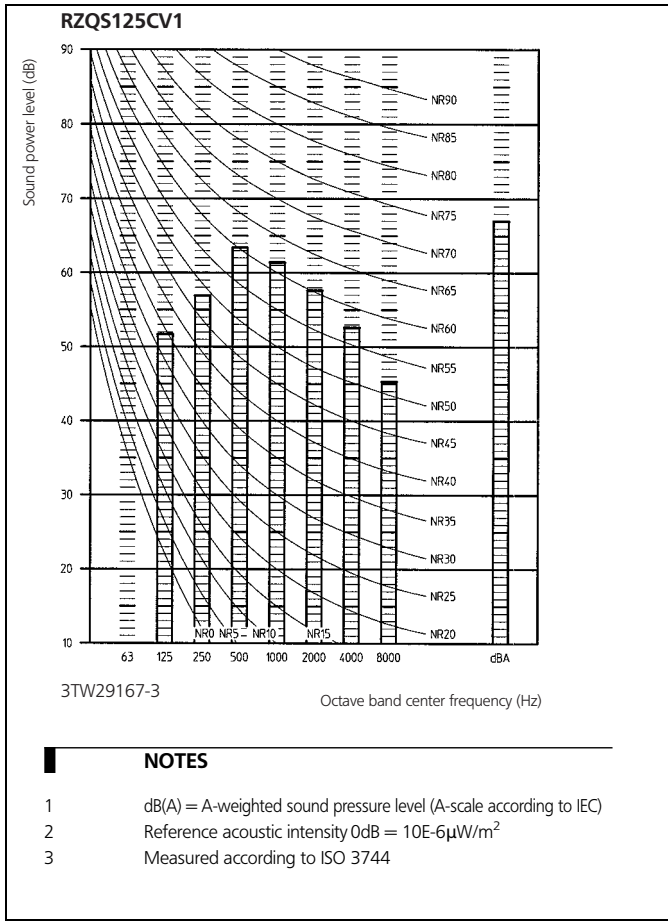
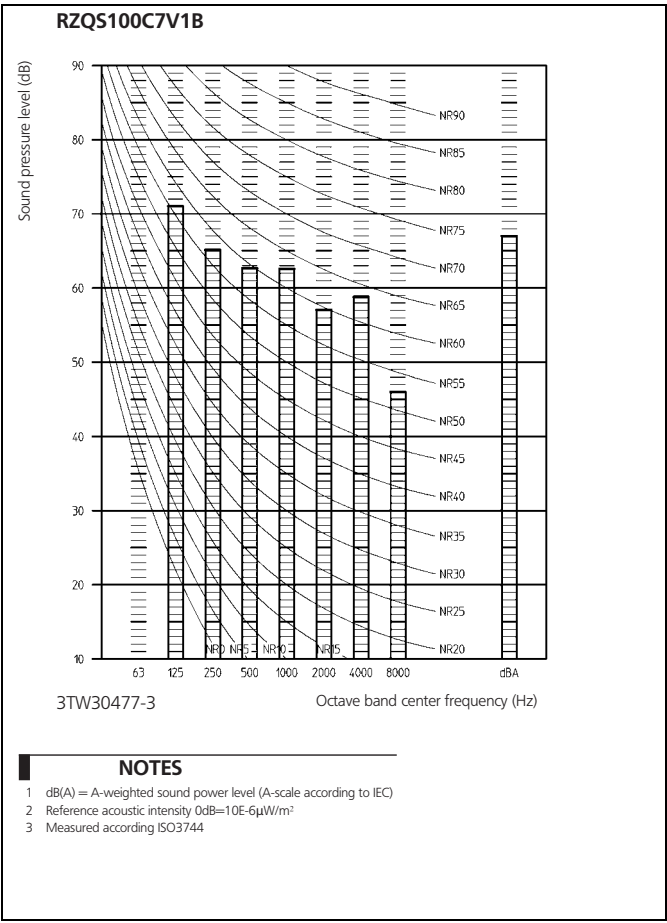
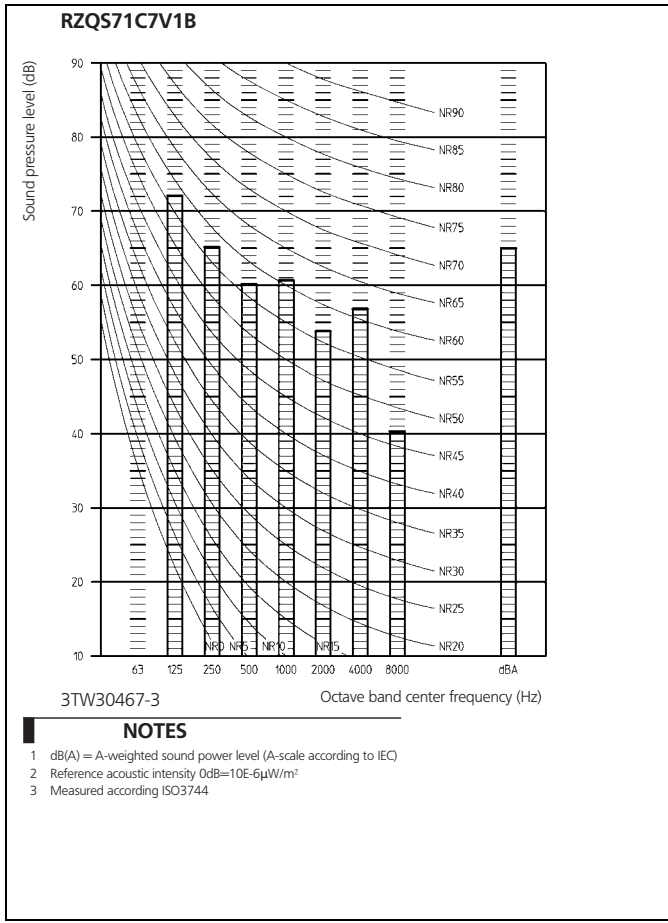
## 9 - 1 Sound pressure spectrum

9



# 9 Sound data

## 9 - 2 Sound power spectrum



# 10 Installation

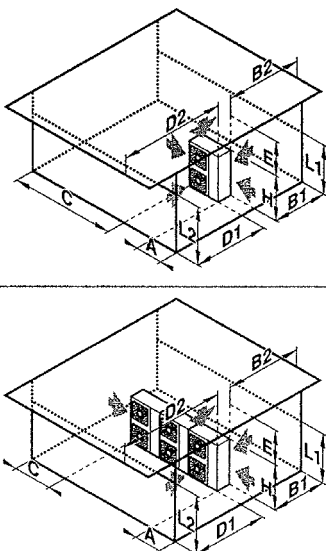
## 10 - 1 Installation method

RZQS71~ 140C

### A. Non stacked installation

Legend

10



	↖	↗	↘	↙		A	B1	B2	C	D1	D2	E	L1/2
	✓					≥100	≥100	≥100					
	✓		✓	✓		≥100	≥100				≤500	≥1000	
	✓		✓	✓		≥150	≥150		≥150		≤500	≥1000	
		✓								≤500	≥500	≥1000	
	✓	✓				L1<L2	≥50(100)			≥500			
			✓			L2<L1	≥50(100)			≥500			
				✓				≤500		≥500		≥1000	
					✓					≥750		≥1000	0<L1≤1/2H 0<L1≤1/2H
	✓	✓				L1<L2	≥150(250)	≤500		≥1000			1
						L1<L2	≥150(250)	≤500		≥1000			1
						L2≤H	≥50(100)			≥500(1000)	≥500	≥1000	0<L2≤1/2H 1/2H<L2≤H
						L2≤L1	≥100(200)			≥500(1000)	≥500	≥1000	1/2H<L2≤H
									L2≤H				
	✓	✓	✓	✓		≥200	≥200(300)		≥1000				
	✓		✓	✓		≥200	≥200(300)		≥1000		≤500	≥1000	
		✓						≤500		≥1000		≥1000	
		✓				L1<L2	≥200(300)		≥1000				0<L2≤1/2H 1/2H<L2≤H
				✓		L2<L1	≥150(250)		≥1000(1500)				1/2H<L2≤H
							≥200(300)		≥1000		≥1000		1
	✓	✓				L1<L2	L1≤H	≥200(300)	≤500	≥1000		≥1000	0<L1≤1/2H 1/2H<L1≤H
						L1<L2	L1≤H	≥200(300)	≤500	≥1250		≥1000	1
						L2≤H	≥150(250)		≥1000(1500)	≤500	≥1000		0<L2≤1/2H 1/2H<L2≤H
						L2≤L1	≥200(300)		≥1000(1500)	≤500	≥1000		1/2H<L2≤H
									L2≤H				

- ↖ Suction side obstacle
- ↗ Discharge side obstacle
- ↘ Left side obstacle
- ↙ Right side obstacle
- ↕ Top side obstacle
- ✓ Obstacle is present

In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

In these cases, only 2 units can be installed.

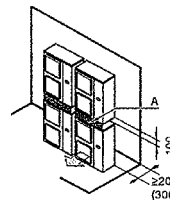
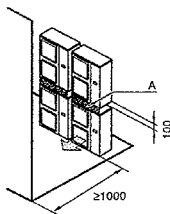
 This situation is not allowed.

Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

### B. Stacked installation

#### 1. Obstacles exist in front of the outlet side

#### 2. Obstacles exist in front of the air inlet

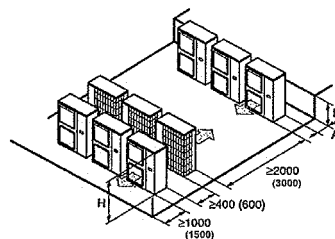
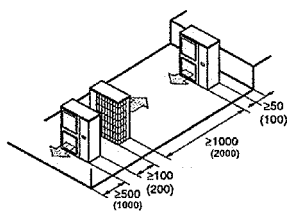


Do not stack more than one unit.  
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.  
Get the portion A sealed so that air from the outlet does not bypass.

### C. Multiple-row installation

#### 1. Installation of one unit per row

#### 2. Installing multiple units (2 units or more) in lateral connection per row



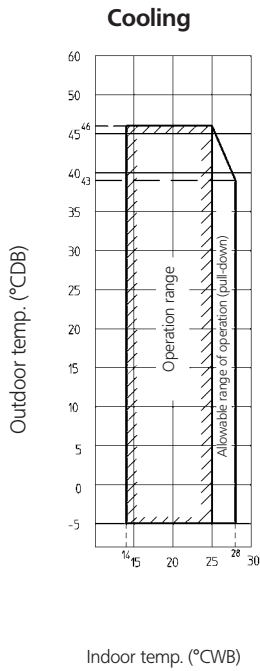
Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

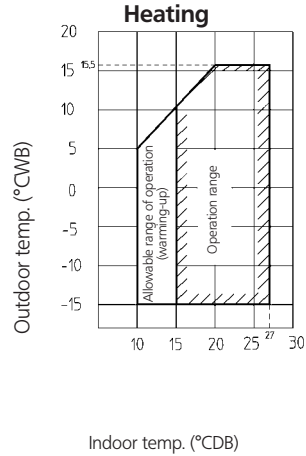
3TW26739-4

# 11 Operation range

## RZQS71-100C7V1B



Model name
RZQS71C7V1B
RZQS100C7V1B



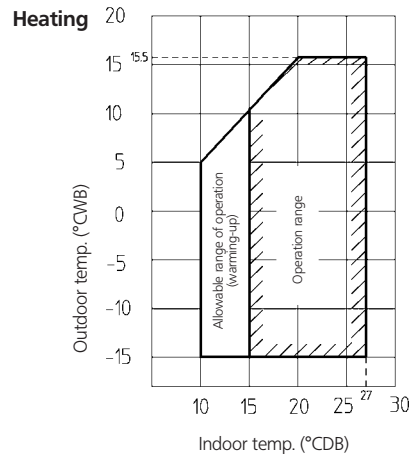
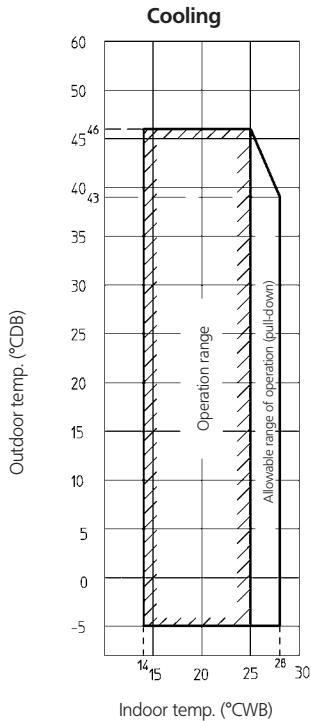
**Notes:**

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3TW29063-1C

## RZQS125-140C

Model name
RZQS125C7V1B
RZQS140C7V1B



**Notes:**

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3TW29063-1A