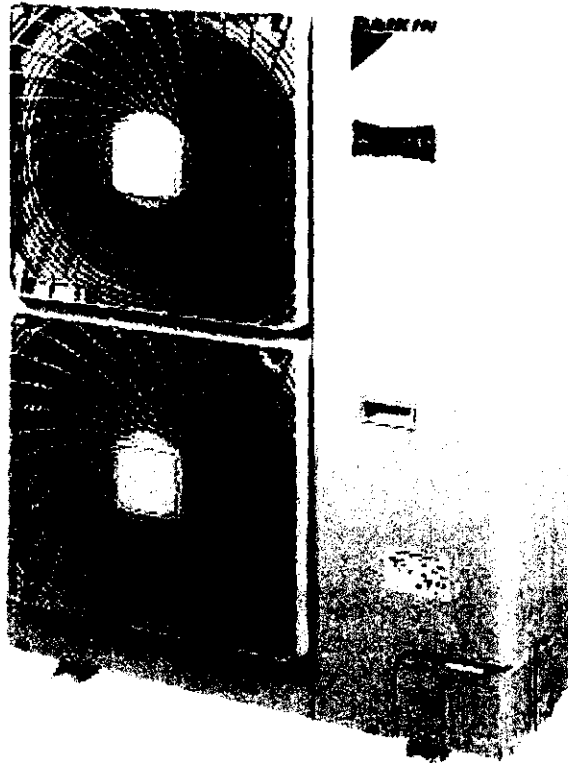


TABLE OF CONTENTS

1	Features	2
2	Specifications	3
	Nominal Capacity and Nominal Input	3
	Technical Specifications	4
	Electrical Specifications	5
3	Electrical data	6
4	Options	8
5	Capacity tables	9
	Combination table	9
	Cooling capacity tables	10
	Heating capacity tables	15
6	Dimensional drawing & centre of gravity	19
	Dimensional drawing	19
	Centre of gravity	20
7	Piping diagram	21
8	Wiring diagram	23
	Wiring diagram	23
9	Sound data	24
	Sound pressure spectrum	24
	Sound power spectrum	26
10	Installation	27
	Installation method	27
11	Operation range	28

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



2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B
For combination indoor units + outdoor units	Indoor Units			FCQ100C7VEB	FCQ125C7VEB	FCQ140C7VEB
Cooling capacity	Standard	kW		10.0	12.50	14.00
Heating capacity	Standard	kW		11.20	14.00	16.00
Power Input	Cooling	Standard	kW	2.640	3.680	5.36
	Heating	Standard	kW	3.140	4.360	5.69
For combination indoor units + outdoor units	EER	Nominal		3.79	3.22	2.61
	COP	Nominal		3.57	3.21	2.81
	Energy Label	Cooling		A	A	D
		Heating		B	C	D
	Annual energy consumption		kWh	1320	1940	2680
	Indoor Units			FBQ100B8V3B	FBQ125B8V3B	FBQ140B8V3B
Cooling capacity	Standard	kW		10.00	12.50	13.40
Heating capacity	Standard	kW		11.20	14.00	15.50
Power Input	Cooling	Standard	kW	2.860	3.980	4.76
	Heating	Standard	kW	3.000	3.990	4.82
For combination indoor units + outdoor units	EER	Nominal		3.50	3.14	2.82
	COP	Nominal		3.73	3.51	3.21
	Energy Label	Cooling		A	B	C
		Heating		A	B	C
	Annual energy consumption		kWh	1430	1990	2380
	Indoor Units			FHQ100B8V1B	FHQ125B8V1B	FCQH140C7VEB
Cooling capacity	Standard	kW		10.00	12.50	14.00
Heating capacity	Standard	kW		11.20	14.00	16.00
Power Input	Cooling	Standard	kW	3.150	4.450	4.650
	Heating	Standard	kW	3.600	4.500	4.520
For combination indoor units + outdoor units	EER	Nominal		3.17	2.81	3.01
	COP	Nominal		3.11	3.11	3.54
	Energy Label	Cooling		B	C	B
		Heating		D	D	B
	Annual energy consumption		kWh	1575	2225	2325
	Indoor Units			FUQ100B8V1B	FUQ125B8V1B	
Cooling capacity	Standard	kW		10.00	12.50	
Heating capacity	Standard	kW		11.20	14.00	
Power Input	Cooling	Standard	kW	3.120	4.050	
	Heating	Standard	kW	3.280	4.360	
For combination indoor units + outdoor units	EER	Nominal		3.21	3.09	
	COP	Nominal		3.41	3.21	
	Energy Label	Cooling		A	B	
		Heating		B	C	
	Annual energy consumption		kWh	1560	2025	
	Indoor Units			FAQ100B8V1B	FDQ125B8V3B	
Cooling capacity	Standard	kW		10.00	12.50	
Heating capacity	Standard	kW		11.20	14.00	
Power Input	Cooling	Standard	kW	2.780	4.150	
	Heating	Standard	kW	3.390	3.690	
For combination indoor units + outdoor units	EER	Nominal		3.60	3.01	
	COP	Nominal		3.30	3.79	
	Energy Label	Cooling		A	B	
		Heating		C	A	
	Annual energy consumption		kWh	1390	2075	
	Indoor Units			FCQH100C7VEB	FCQH125C7VEB	
Cooling capacity	Standard	kW		10.00	12.50	
Heating capacity	Standard	kW		11.20	14.00	
Power Input	Cooling	Standard	kW	2.440	3.540	
	Heating	Standard	kW	2.560	3.590	

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT			RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B
For combination indoor units + outdoor units	EER	Nominal	4.10	3.53	
	COP	Nominal	4.38	3.90	
	Energy Label	Cooling	A	A	
		Heating	A	A	
	Annual energy consumption		kWh	1220	1770

2-2 TECHNICAL SPECIFICATIONS				RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B	
Casing	Colour			Ivory White			
	Material			Painted galvanised steel			
Dimensions	Unit	Height	mm	1345	1345	1345	
		Width	mm	900	900	900	
		Depth	mm	320	320	320	
	Packing	Height	mm	1524	1524	1524	
		Width	mm	980	980	980	
		Depth	mm	420	420	420	
Weight	Unit		kg	106	106	106	
	Packed Unit		kg	112	112	112	
Heat Exchanger	Dimensions	Length	mm	857	857	857	
		Nr of Rows		2	2	2	
		Fin Pitch	mm	1.40	1.40	1.40	
		Nr of Passes		5	5	5	
		Face Area	m²	1.131	1.131	1.131	
		Nr of Stages		60	60	60	
	Tube type		Hi-XSS(8)				
	Fin	Type	WF fin				
		Treatment	Anti-corrosion treatment (PE)				
Fan	Type			Propeller			
	Discharge direction			Horizontal			
	Quantity			2	2	2	
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	103.0	99.0	99.0	
		Heating	m³/min	101.0	100.0	100.0	
	Motor	Quantity		2	2	2	
Model		KFD-325-70-8A					
Motor	Speed (nominal)	Steps		8	8	8	
		Cooling (Standard)	rpm	789	782	782	
		Heating (Standard)	rpm	775	767	767	
Fan	Motor	Output	W	70	70	70	
Compressor	Quantity			1	1	1	
	Motor	Model		JT1G-VDYR@T			
		Type		Hermetically sealed scroll compressor			
		Motor Output	W	2200	2200	2200	
		Crankcase Heater	W	33	33	33	
Operation Range	Cooling	Min	°CDB	-15.0	-15.0	-15.0	
		Max	°CDB	50.0	50.0	50.0	
	Heating	Min	°CWB	-20.0	-20.0	-20.0	
		Max	°CWB	15.5	15.5	15.5	
Sound Level (nominal)	Cooling	Sound Power	dBA	65.0	66.0	66.0	
		Sound Pressure (Standard)	dBA	49.0	50.0	50.0	
	Heating	Sound Pressure (Standard)	dBA	51.0	52.0	52.0	
Sound Level (Night quiet)	Sound Pressure		dBA	45.0	45.0	45.0	

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B
Refrigerant	Type			R-410A		
	Charge		kg	4.30	4.30	4.30
	Control			Expansion valve (electronic type)		
	Nr of Circuits			1	1	1
Refrigerant Oil	Type			Daphne FVC68D		
	Charged Volume		l	1.0	1.0	1.0
Piping connections	Liquid (OD)	Quantity		1	1	1
		Type		Flare connection		
		Diameter (OD)	mm	9.52	9.52	9.52
	Gas	Quantity		1	1	1
		Type		Flare connection		
		Diameter (OD)	mm	15.9	15.9	15.9
	Drain	Quantity		3	3	3
		Type		Hole		
		Diameter (OD)	mm	26	26	26
	Piping Length	Minimum	m	5	5	5
		Maximum	m	75	75	75
		Equivalent	m	95	95	95
		Chargeless	m	30	30	30
	Additional Refrigerant Charge		kg/m	see installation manual 4PW21412-1		
	Installation height difference	Maximum	m	30.0	30.0	30.0
	Max. internunit level difference		m	0.5	0.5	0.5
	Heat Insulation			Both liquid and gas pipes		
Defrost Method				Pressure equalising		
Defrost Control				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	
	Item			Installation manual		
	Quantity		1	1	1	
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.		
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m		

2-3 ELECTRICAL SPECIFICATIONS				RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B
Power Supply	Name			W1B		
	Phase			3N~		
	Frequency	Hz		50	50	50
	Voltage	V		400	400	400
	Voltage range	Minimum	V	-10%		
		Maximum	V	+10%		
Current	Recommended fuses		A	20	20	20
Wiring connections	For Power Supply	Remark		see installation manual 4PW21412-1		
	For connection with indoor	Remark		see installation manual 4PW21412-1		
Power Supply Intake				Outdoor unit only		
Notes				See separate drawings for electrical data		

3 Electrical data

RZQ-BW1

Unit combination		Power supply				Comp.		OFM		IFM			
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	KW	FLA	KW	FLA	
FCQ100C7VEB	RZQ100B8W1B	50-400	Max. 50Hz/440V Min. 50Hz/360V	14.9	14.9	20	12.9	12.9	0.0740	0.340	3	0.120	1.4
FCQ100C7VEB	RZQ100B8W1B	50-400		14.2	14.2	20	12.9	12.9	0.0740	0.340	3	0.120	0.7
FCQ50C7VEBx2	RZQ100B8W1B	50-400		14.1	14.1	20	12.9	12.9	0.0740	0.340	3	0.056x2	0.3x2
FCQ35C7VEBx3	RZQ100B8W1B	50-400		14.4	14.4	20	12.9	12.9	0.0740	0.340	3	0.056x3	0.3x3
FCQ100DV3B	RZQ100B7W1B	50-400		14.2	14.2	20	12.9	12.9	0.0740	0.340	3	0.120	0.7
FCQ100B7V3B	RZQ100B7W1B	50-400		14.5	14.5	20	12.9	12.9	0.0740	0.340	3	0.090	1.0
FCQ50B7V1x2	RZQ100B7W1B	50-400		14.7	14.7	20	12.9	12.9	0.0740	0.340	3	0.045x2	0.6x2
FCQ35B7V1x3	RZQ100B7W1B	50-400		15.3	15.3	20	12.9	12.9	0.0740	0.340	3	0.045x3	0.6x3
FFQ50B7V1Bx2	RZQ100B7W1B	50-400		14.9	14.9	20	12.9	12.9	0.0740	0.340	3	0.055x2	0.7x2
FFQ35B7V1Bx3	RZQ100B7W1B	50-400		15.3	15.3	20	12.9	12.9	0.0740	0.340	3	0.055x3	0.6x3
FBQ100B7V3B	RZQ100B7W1B	50-400	Max. 50Hz/440V Min. 50Hz/360V	14.5	14.5	20	12.9	12.9	0.0740	0.340	3	0.135	1.0
FBQ50B7V1x2	RZQ100B7W1B	50-400		14.9	14.9	20	12.9	12.9	0.0740	0.340	3	0.085x2	0.7x2
FBQ35B7V1x3	RZQ100B7W1B	50-400		15.0	15.0	20	12.9	12.9	0.0740	0.340	3	0.065x3	0.5x3
FHQ100B7V1B	RZQ100B7W1B	50-400		14.2	14.2	20	12.9	12.9	0.0740	0.340	3	0.130	0.7
FHQ50B7V1Bx2	RZQ100B7W1B	50-400		14.7	14.7	20	12.9	12.9	0.0740	0.340	3	0.062x2	0.6x2
FHQ35B7V1Bx3	RZQ100B7W1B	50-400		15.3	15.3	20	12.9	12.9	0.0740	0.340	3	0.062x3	0.6x3
FAQ100B7V1B	RZQ100B7W1B	50-400		13.9	13.9	20	12.9	12.9	0.0740	0.340	3	0.049	0.4
FUQ100B7V1B	RZQ100B7W1B	50-400		14.6	14.6	20	12.9	12.9	0.0740	0.340	3	0.090	1.1
FCQ125C7VEB	RZQ125B8W1B	50-400		14.9	14.9	20	12.9	12.9	0.0740	0.340	3	0.120	1.4
FCQ125C7VEB	RZQ125B8W1B	50-400		14.5	14.5	20	12.9	12.9	0.0740	0.340	3	0.120	1.0
FCQ60C7VEBx2	RZQ125B8W1B	50-400	14.3	14.3	20	12.9	12.9	0.0740	0.340	3	0.056x2	0.4x2	
FCQ50C7VEBx3	RZQ125B8W1B	50-400	14.4	14.4	20	12.9	12.9	0.0740	0.340	3	0.056x3	0.3x3	
FCQ35C7VEBx4	RZQ125B8W1B	50-400	14.7	14.7	20	12.9	12.9	0.0740	0.340	3	0.056x4	0.3x4	
FCQ125DV3B	RZQ125B7W1B	50-400	14.2	14.2	20	12.9	12.9	0.0740	0.340	3	0.120	0.7	
FCQ125B7V3B	RZQ125B7W1B	50-400	14.5	14.5	20	12.9	12.9	0.0740	0.340	3	0.090	1.0	
FCQ60B7V1x2	RZQ125B7W1B	50-400	14.7	14.7	20	12.9	12.9	0.0740	0.340	3	0.045x2	0.6x2	
FCQ50B7V1x3	RZQ125B7W1B	50-400	15.3	15.3	20	12.9	12.9	0.0740	0.340	3	0.045x3	0.6x3	
FCQ35B7V1x4	RZQ125B7W1B	50-400	15.9	15.9	20	12.9	12.9	0.0740	0.340	3	0.045x4	0.6x4	
FFQ60B7V1Bx2	RZQ125B7W1B	50-400	14.9	14.9	20	12.9	12.9	0.0740	0.340	3	0.055x2	0.7x2	
FFQ35B7V1Bx3	RZQ125B7W1B	50-400	15.6	15.6	20	12.9	12.9	0.0740	0.340	3	0.055x3	0.7x3	
FFQ35B7V1Bx4	RZQ125B7W1B	50-400	15.9	15.9	20	12.9	12.9	0.0740	0.340	3	0.055x4	0.6x4	
FBQ125B7V3B	RZQ125B7W1B	50-400	14.9	14.9	20	12.9	12.9	0.0740	0.340	3	0.225	1.4	
FBQ60B7V1x2	RZQ125B7W1B	50-400	15.3	15.3	20	12.9	12.9	0.0740	0.340	3	0.125x2	0.9x2	
FBQ50B7V1x3	RZQ125B7W1B	50-400	15.6	15.6	20	12.9	12.9	0.0740	0.340	3	0.085x3	0.7x3	
FBQ35B7V1x4	RZQ125B7W1B	50-400	15.5	15.5	20	12.9	12.9	0.0740	0.340	3	0.065x4	0.5x4	
FHQ125B7V1B	RZQ125B7W1B	50-400	14.2	14.2	20	12.9	12.9	0.0740	0.340	3	0.130	0.7	
FHQ60B7V1Bx2	RZQ125B7W1B	50-400	14.7	14.7	20	12.9	12.9	0.0740	0.340	3	0.062x2	0.6x2	
FHQ50B7V1Bx3	RZQ125B7W1B	50-400	15.3	15.3	20	12.9	12.9	0.0740	0.340	3	0.062x3	0.6x3	
FHQ35B7V1Bx4	RZQ125B7W1B	50-400	15.9	15.9	20	12.9	12.9	0.0740	0.340	3	0.062x4	0.6x4	
FUQ125B7V1B	RZQ125B7W1B	50-400	14.6	14.6	20	12.9	12.9	0.0740	0.340	3	0.090	1.1	
FDQ125B7V3B	RZQ125B7W1B	50-400	17.7	17.7	20	12.9	12.9	0.0740	0.340	3	0.500	4.2	

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SYMBOLS

MCA	: Min. Circuit Amps (A)
TOCA	: Total Over Current Amps (A)
MFA	: Max. Fuse Amps (See note 7) (A)
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 (A)
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°CDB
Outdoor temperature 7°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)
- 8 For more details concerning conditional connections, see <http://extranet.daikin-europe.com>, select "E-Data Books". Finally, click on the document title of your choice

3 Electrical data

RZQ-BW1

Unit combination		Power supply				Comp.		OFM		IFM		
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MICA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ140C7VEB	RZQ140B8W1B	50-400	Max. 50Hz/440V Min. 50Hz/360V	14, 9	14, 9	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 120	1, 4	
FCQ140C7VEB	RZQ140B8W1B	50-400		14, 5	14, 5	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 120	1, 0	
FCQ171C7VEBx2	RZQ140B8W1B	50-400		14, 5	14, 5	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 056x2	0, 5x2	
FCQ50C7VEBx3	RZQ140B8W1B	50-400		14, 4	14, 4	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 056x3	0, 3x3	
FCQ35C7VEBx4	RZQ140B8W1B	50-400		14, 7	14, 7	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 056x4	0, 3x4	
FCQ140QV3B	RZQ140B7W1B	50-400		14, 2	14, 2	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 120	0, 7	
FCQ71B7V3Bx2	RZQ140B7W1B	50-400		14, 7	14, 7	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 045x2	0, 6x2	
FCQ50B7V1x3	RZQ140B7W1B	50-400		14, 7	14, 7	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 045x2	0, 6x2	
FCQ35B7V1x4	RZQ140B7W1B	50-400		15, 9	15, 9	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 045x4	0, 6x4	
FFQ50B7V1Bx3	RZQ140B7W1B	50-400		15, 6	15, 6	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 055x3	0, 7x3	
FFQ35B7V1Bx4	RZQ140B7W1B	50-400		15, 9	15, 9	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 055x4	0, 6x4	
FBQ71B7V3Bx2	RZQ140B7W1B	50-400		15, 3	15, 3	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 125x2	0, 9x2	
FBQ50B7V1x3	RZQ140B7W1B	50-400		15, 6	15, 6	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 085x3	0, 7x3	
FBQ35B7V1x4	RZQ140B7W1B	50-400		15, 5	15, 5	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 065x4	0, 5x4	
FHQ71B7V1Bx2	RZQ140B7W1B	50-400		14, 7	14, 7	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 062x2	0, 6x2	
FHQ50B7V1Bx3	RZQ140B7W1B	50-400		15, 3	15, 3	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 062x3	0, 6x3	
FHQ35B7V1Bx4	RZQ140B7W1B	50-400	15, 9	15, 9	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 062x4	0, 6x4		
FAQ71B7V1Bx2	RZQ140B7W1B	50-400	14, 1	14, 1	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 043x2	0, 3x2		
FUQ71B7V1Bx2	RZQ140B7W1B	50-400	14, 9	14, 9	20	12, 9	12, 9	0, 0710, 0710, 3+0, 3	0, 045x2	0, 7x2		

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SYMBOLS

MCA	: Min. Circuit Amps (A)
TOCA	: Total Over Current Amps (A)
MFA	: Max. Fuse Amps (See note 7) (A)
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°CDB
Outdoor temperature: 7.0°CDB/6.0°CWB
2. TOCA means the total value of each DC 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)
8. For more details concerning conditional connections, see <http://extanet.daikin-europe.com>, select "E-Data Books". Finally, click on the document title of your choice.

4 Options

Available option for RZQ-BW1

Name of option		Kit name		
		RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B
Central drain plug		KKPJ5F180		
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T): See note		
	Triple	KHRQ127H (KHRQ58H): See note		
	Double twin	KHRQ22M20TA (KHRQ58T): See note (3x)		
Demand adapter kit		KRP58M51		

3TW26739-1E

NOTES

For RZQ100-140B8W1B in combination with FCQ35-71C or FCQH71C, use the refrigerant branch piping mentioned between brackets.

5 Capacity tables

5 - 1 Combination table

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

Outdoor models	Possible indoor combination		
	Simultaneous operation		
	Twin	Triple	Double twin
RZQ71B8V3B	35-35 (KHRQ22M20TA8)		
RZQ100B8V3B	50-50 (KHRQ22M20TA8)	35-35-35 (KHRQ127H8)	
RZQ125B8V3B	60-60 (KHRQ22M20TA8)	50-50-50 (KHRQ127H8)	25-35-35-35 (3x KHRQ22M20TA8)
RZQ140B8W1B	71-71 (See note 5)	50-50-50 (See note 6)	35-35-35-35 (See note 7)
RZQ100B8W1B	50-50 (See note 5)	35-35-35 (See note 6)	
RZQ125B8W1B	60-60 (See note 5)	50-50-50 (See note 6)	35-35-35-35 (See note 7)

3TW26739-2B

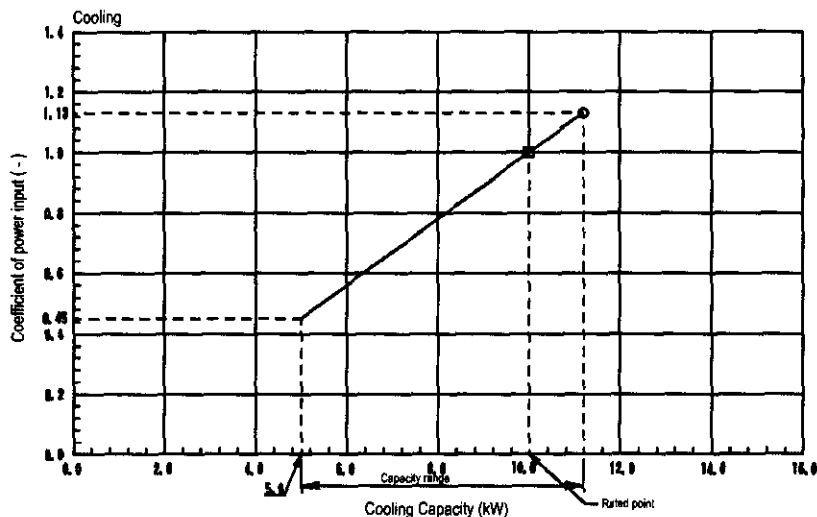
NOTES

- Possible indoor units: FCQH71, FCQ35-71, FFQ35-60, FHQ35-71, FBQ35-71, FUQ71, FAQ71
- 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 note 1 are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).
- Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.
- In case of FCQ50-71C or FCQH71C: use KHRQ58T7 otherwise, use KHRQ22M20TA8
- In case of FCQ35-50C: use KHRQ58H7 otherwise, use KHRQ127H8
- In case of FCQ35C: use 3x KHRQ58T7 otherwise, use 3x KHRQ22M20TA8

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ100B



Cooling

Indoor		Outdoor temperature (°C DB)											
EWB	EDB	25			30			35			40		
°C	°C	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	10.2	6.93	0.86	10.2	7.00	1.01	10.5	7.29	1.12	10.1	7.08	1.23
18.0	25	11.8	7.59	0.94	11.3	7.45	1.03	11.0	7.27	1.13	10.5	7.06	1.24
19.0	27	12.0	7.57	0.95	11.6	7.43	1.03	11.2	7.26	1.13	10.8	7.04	1.24
19.5	27	12.1	7.56	0.95	11.8	7.41	1.03	11.3	7.25	1.13	10.9	7.03	1.24
22.0	30	12.7	7.46	0.96	12.3	7.32	1.04	11.9	7.16	1.14	11.4	6.96	1.25
24.0	32	13.2	7.36	0.96	12.8	7.22	1.05	12.4	7.06	1.15	11.9	6.87	1.27

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NOTES

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

SYMBOLS

AFR	:	Air flow rate	(m ³ /min.)
BF	:	Bypass factor	
EWB	:	Entering wet bulb temp.	(°C DB)
EDB	:	Entering dry bulb temp.	(°C DB)
TC	:	Total cooling (heating) capacity	(kW)
SHC	:	Sensible heat capacity	(kW)
PI	:	Power input (Comp.+indoor+outdoor fan motor).	(kW)
CPI	:	Coefficient of power input	(-)
Caution	:	TC and SHC are shown by kW.	

(Pair)

	FCQ100C	FCQ100C	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR	32.5	23.5	30	28	27	24	23	29
(BF)	(0.17)	(0.16)	(0.11)	(0.07)	(0.20)	(0.14)	(0.10)	(0.07)

(Triple)

	FCQ35Cx3	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR	10.5x3	14x3	10x3	11.5x3	13x3
(BF)	(0.28x3)	(0.16x3)	(0.25x3)	(0.15x3)	(0.2x3)

9 Rated power input of each model is tabulated below.

(Pair)

	FCQ100C	FCQ100C	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.44	2.64	2.86	3.12	2.78	3.12
Heating	2.56	3.14	2.56	3.14	3.00	3.60	3.39	3.28

(Triple)

	FCQ35Cx3	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.78	2.79	3.01	3.32
Heating	3.31	3.31	3.21	3.16	3.79

(Twin)

	FCQ50Cx2	FCQ50Bx2	FFQ50x2	FBQ50x2
AFR	12.5x2	15x2	12x2	14x2
(BF)	(0.21x2)	(0.21x2)	(0.16x2)	(0.15x2)

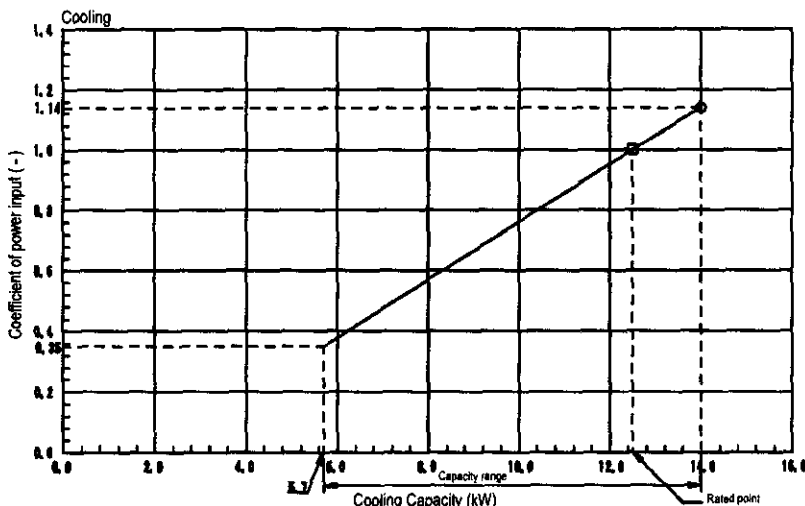
(Twin)

	FCQ50Cx2	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.78	2.79	3.01	3.32
Heating	3.31	3.31	3.21	3.16	3.79

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ125B



Cooling

Indoor		Outdoor temperature (°C DB)											
EWB	EDB	25			30			35			40		
°C	°C	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	0.87	12.8	8.75	1.01	13.1	9.12	1.13	12.7	8.85	1.24
18.0	25	14.7	9.50	0.95	14.2	9.32	1.04	13.7	9.09	1.14	13.2	8.83	1.25
19.0	27	14.9	9.46	0.96	14.4	9.28	1.04	14.0	9.06	1.14	13.4	8.80	1.25
19.5	27	15.1	9.45	0.96	14.7	9.27	1.04	14.1	9.05	1.14	13.6	8.79	1.25
22.0	30	15.9	9.33	0.97	15.5	9.16	1.05	14.9	8.95	1.15	14.3	8.69	1.27
24.0	32	16.5	9.20	0.97	16.0	9.03	1.06	15.5	8.83	1.16	14.9	8.59	1.28

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NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with ○ show the max. ones at standard conditions.
- On the figure the mark with □ show rated capacity and rated coefficient of power input. However the max. Capacity is not guaranteed except at standard condition.
- SHC* is based on each EWB and EDB.
SHC* = SHC correction for other dry bulb.
= $0.02 \times \text{AFR} (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
Add SHC to SHC*.
- Capacities are based on the following conditions.
Outdoor air: 85% RH. However, the condition rated capacity is 7°C DB/6°C WB. (heating)
Corresponding refrigerant piping length : 5.0m
Level difference : 0m
- 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 tabulated below.

SYMBOLS

AFR	Air flow rate	(m ³ /min.)
BF	Bypass factor	
EWB	Entering wet bulb temp.	(°C DB)
EDB	Entering dry bulb temp.	(°C DB)
TC	Total cooling (heating) capacity	(kW)
SHC	Sensible heat capacity	(kW)
PI	Power input (Comp.+indoor+outdoor fan motor)	(kW)
CPI	Coefficient of power input	(-)
Caution	TC and SHC are shown by kW.	

(Pair)

	FCQ125C	FCQ125C	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR	32.5	27.5	30	31	35	30	32	45
(BF)	(0.19)	(0.19)	(0.13)	(0.13)	(0.14)	(0.13)	(0.07)	(0.25)

(Pair)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
AFR	12.5x3	15x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

(Twin)

	FCQ60C2	FCQ60B2	FFQ602	FBQ602	FHQ602
AFR	13.5x2	16x2	15x2	18x2	17x2
(BF)	(0.21x2)	(0.1x2)	(0.11x2)	(0.11x2)	(0.2x2)

(Double Twin)

	FCQ35C4	FCQ35B4	FFQ354	FBQ354	FHQ354
AFR	10.5x4	14x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

(Twin)

	FCQ35C2	FCQ35B2	FFQ352	FBQ352	FHQ352
Cooling	4.08	4.08	4.13	4.19	4.45
Heating	4.59	4.59	4.26	4.20	4.74

(Double Twin)

	FCQ35C4	FCQ35B4	FFQ354	FBQ354	FHQ354
Cooling	4.08	4.08	4.13	4.19	4.45
Heating	4.59	4.59	4.26	4.20	4.74

9 Rated power input of each model is tabulated below.

(Pair)

	FCQ125C	FCQ125C	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.59	4.36	3.99	4.50	4.36	3.69

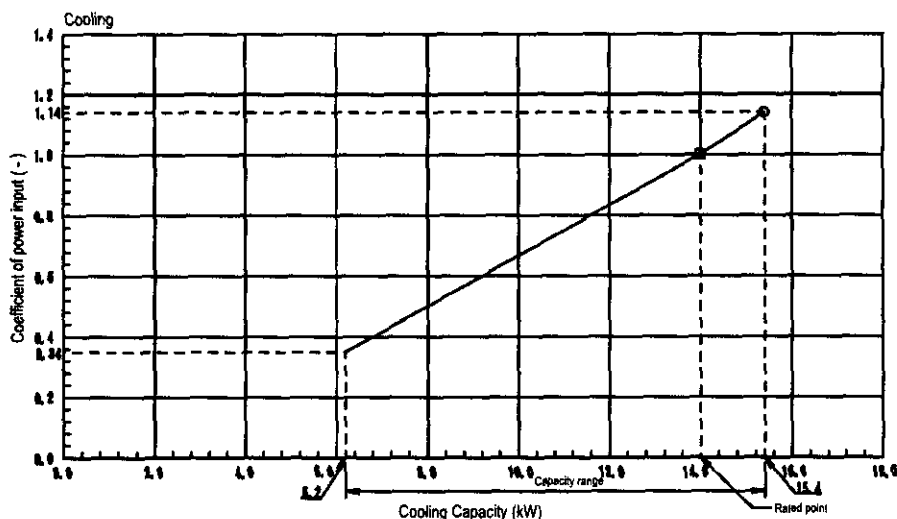
(Triple)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
Cooling	4.08	4.08	4.13	4.19	4.45
Heating	4.59	4.59	4.26	4.20	4.74

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ140B



Cooling

Indoor		Outdoor temperature (°C DB)											
EWB	EDB	25			30			35			40		
°C	°C	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	14.1	9.53	0.87	14.0	9.61	1.01	14.4	10.0	1.13	13.9	9.72	1.24
18.0	25	16.1	10.5	0.95	15.6	10.2	1.04	15.1	10.0	1.14	14.5	9.70	1.25
19.0	27	16.5	10.4	0.96	16.0	10.2	1.04	15.4	9.98	1.14	14.7	9.68	1.25
19.5	27	16.6	10.4	0.96	16.2	10.2	1.04	15.5	9.96	1.14	15.0	9.67	1.25
22.0	30	17.5	10.3	0.97	16.9	10.1	1.05	16.4	9.85	1.15	15.7	9.56	1.27
24.0	32	18.2	10.1	0.97	17.6	9.93	1.06	17.1	9.71	1.16	16.4	9.45	1.28

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NOTES

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

(Pair)

	FCQ140C	FCQ140C	FCQ140D
AFR	32.5	27.5	30
(BF)	(0.19)	(0.22)	(0.07)

(Pair)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
AFR	12.5x3	15x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

- 9 Rated power input of each model is tabulated below.

(Pair)

	FCQ140C	FCQ140C	FCQ140D
Cooling	4.65	5.36	4.65
Heating	5.52	5.69	4.52

(Triple)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
Cooling	4.81	4.81	4.86	4.95	4.99
Heating	5.52	5.52	5.11	5.06	5.69

SYMBOLS

- AFR : Air flow rate (m³/min.)
- BF : Bypass factor
- EWB : Entering wet bulb temp. (°C DB)
- EDB : Entering dry bulb temp. (°C DB)
- TC : Total cooling (heating) capacity (kW)
- SHC : Sensible heat 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)

	FCQ71C2	FCQ71B2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
AFR	15.5x2	18x2	19x2	17x2	19x2	19x2
(BF)	(0.19x2)	(0.1x2)	(0.11x2)	(0.1x2)	(0.07x2)	(0.08x2)

(Double Twin)

	FCQ35C4	FCQ35B4	FFQ35x4	FBQ35x4	FHQ35x4
AFR	10.5x4	14x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

(Twin)

	FCQ71C2	FCQ71B2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
Cooling	4.81	4.81	4.85	4.99	4.99	4.92
Heating	5.52	5.52	5.06	5.69	5.05	5.22

(Double Twin)

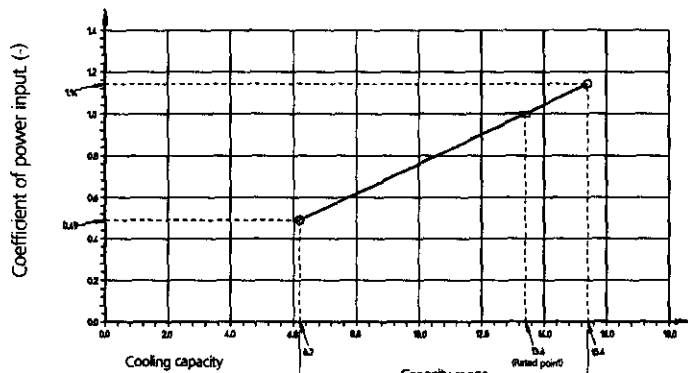
	FCQ35C4	FCQ35B4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.81	4.81	4.86	4.95	4.99
Heating	5.52	5.52	5.11	5.06	5.69

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ140BW1 (Pair)

Cooling



Cooling capacity

400V [50Hz]

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC	SHC	CP	TC	SHC	CP	TC	SHC	CP	TC	SHC	CP
		(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
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	13.5	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

- This capacity table is only valid for pair combination with FBQ140
- 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 value 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	FBQ140
AFR	35
BF	(0.14)

- Rated power input of each model is tabulated below.

Pair	
Outdoor	RZQ140C7
Indoor	RZQ140C7
Cooling	4.76kW
Heating	4.82kW

SYMBOLS

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

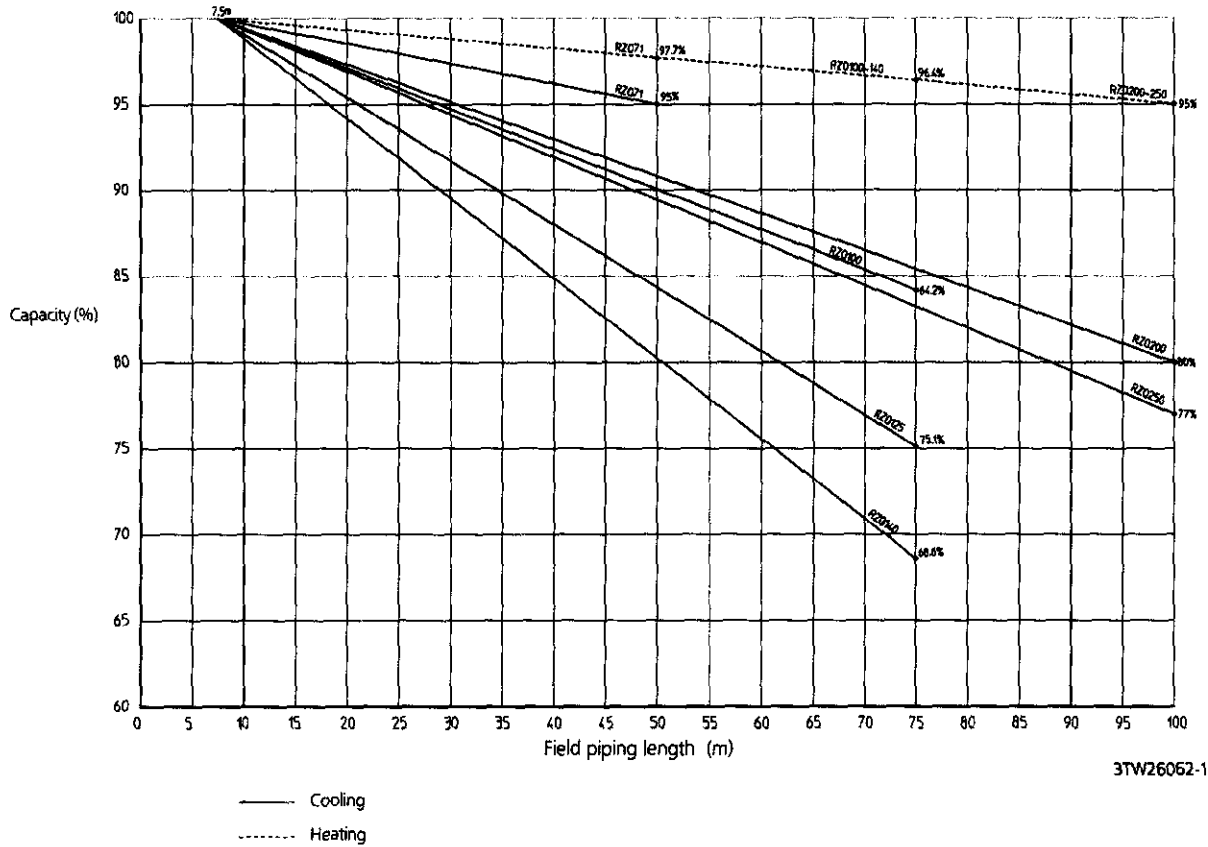
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ-B/C

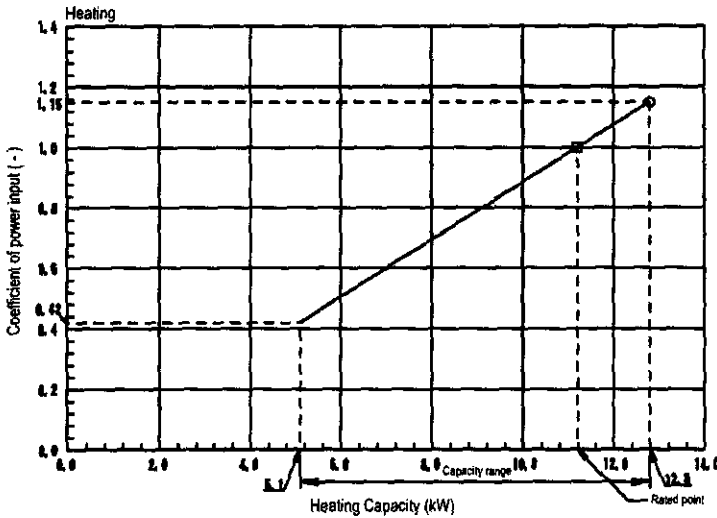
Capacity in function of field piping length for non-inverter



5 Capacity tables

5 - 3 Heating capacity tables

RZQ100B



Heating

Indoor EDB °C	Outdoor temperature (°C DB)											
	-15		-10		-5		0		6		10	
	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)
16.0	7.16	0.87	7.91	0.92	8.66	0.96	9.41	1.01	12.8	1.06	13.8	1.12
18.0	7.15	0.90	7.90	0.95	8.65	1.00	9.39	1.05	12.8	1.10	13.8	1.16
20.0	7.15	0.94	7.89	0.99	8.64	1.04	9.38	1.09	12.8	1.15	13.8	1.21
21.0	7.14	0.96	7.89	1.01	8.63	1.06	9.38	1.11	12.8	1.17	13.8	1.23
22.0	7.14	0.98	7.88	1.03	8.63	1.08	9.37	1.14	12.8	1.20	13.7	1.25
24.0	7.13	1.02	7.87	1.07	8.62	1.12	9.36	1.17	12.8	1.24	13.7	1.30

3D059960

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the mark with $\bigcirc$ show the max. values at standard conditions.
- On the figure the mark with $\square$ show rated capacity and rated coefficient of power input. However the max. Capacity is not guaranteed except at standard condition.
- SHC* is based on each EWB and EDB.
SHC = SHC correction for other dry bulb.
 $= 0.02 \times \text{AFR} \times (\text{m}^3/\text{min}) \times (1 - \text{BF}) \times (\text{DB}^* - \text{EDB})$
Add SHC to SHC*.
- Capacities are based on the following conditions.
Outdoor air: 85% RH. However, the condition rated capacity is 7°C DB/6°C WB (heating)
Corresponding refrigerant piping length: 5.0m
Level difference: 0m
- 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 tabulated below.

SYMBOLS

AFR	Air flow rate	(m ³ /min.)
BF	Bypass factor	
EWB	Entering wet bulb temp.	(°C DB)
EDB	Entering dry bulb temp.	(°C DB)
TC	Total cooling (heating) capacity	(kW)
SHC	Sensible heat capacity	(kW)
PI	Power input (Comp.+indoor+outdoor fan motor).	(kW)
CPI	Coefficient of power input	(-)
Caution	TC and SHC are shown by kW.	

(Pair)

	FCQ100C	FCQ100C	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR	32.5	23.5	30	28	27	24	23	29
(BF)	(0.17)	(0.16)	(0.11)	(0.16)	(0.20)	(0.14)	(0.10)	(0.07)

(Triple)

	FCQ35C3	FCQ35B3	FFQ353	FBQ353	FHQ353
AFR	32.5	23.5	30	28	27
(BF)	(0.17)	(0.16)	(0.11)	(0.16)	(0.20)

9 Rated power input of each model is tabulated below.

(Pair)

	FCQ100C	FCQ100C	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.44	2.64	2.86	3.12	2.78	3.12
Heating	2.56	3.14	2.56	3.14	3.00	3.80	3.39	3.28

(Triple)

	FCQ35C3	FCQ35B3	FFQ353	FBQ353	FHQ353
Cooling	2.78	2.78	2.79	3.01	3.32
Heating	3.31	3.31	3.21	3.16	3.79

(Twin)

	FCQ50C2	FCQ50B2	FFQ502	FBQ502
AFR	12.5x2	15x2	12x2	14x2
(BF)	(0.21x2)	(0.21x2)	(0.16x2)	(0.15x2)

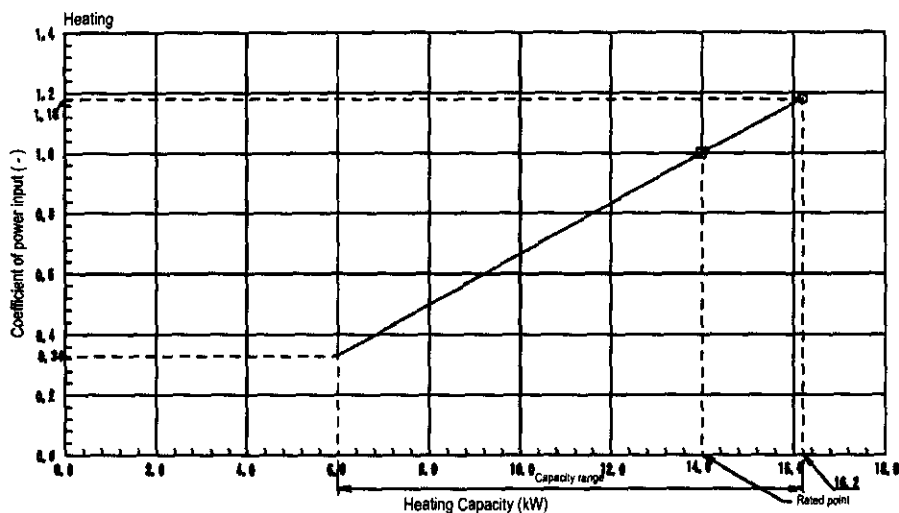
(Twin)

	FCQ50C2	FCQ50B2	FFQ502	FBQ502	FHQ502
Cooling	2.78	2.78	2.79	3.01	3.32
Heating	3.31	3.31	3.21	3.16	3.79

5 Capacity tables

5 - 3 Heating capacity tables

RZQ125B



Heating

Indoor	Outdoor temperature (°C DB)									
	-15		-10		-5		0		6	
EDB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
°C	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)
16.0	8.83	0.89	9.76	0.94	10.7	0.99	11.6	1.04	16.2	1.09
18.0	8.82	0.93	9.74	0.98	10.7	1.03	11.6	1.08	16.2	1.13
20.0	8.81	0.97	9.73	1.02	10.7	1.07	11.6	1.12	16.2	1.18
21.0	8.81	0.99	9.73	1.04	10.6	1.09	11.6	1.14	16.2	1.20
22.0	8.80	1.00	9.72	1.05	10.6	1.11	11.6	1.16	16.2	1.23
24.0	8.79	1.04	9.71	1.10	10.6	1.15	11.5	1.21	16.2	1.27

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NOTES

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

SYMBOLS

AFR	Air flow rate	(m ³ /min.)
BF	Bypass factor	
EWB	Entering wet bulb temp.	(°C DB)
EDB	Entering dry bulb temp.	(°C DB)
TC	Total cooling (heating) capacity	(kW)
SHC	Sensible heat capacity	(kW)
PI	Power input (Comp.+indoor+outdoor fan motor).	(kW)
CPI	Coefficient of power input	(-)
Caution	TC and SHC are shown by kW.	

(Pair)

	FCQ125C	FCQ125C	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR	32.5	27.5	30	31	35	30	32	45
(BF)	(0.19)	(0.19)	(0.13)	(0.07)	(0.14)	(0.13)	(0.07)	(0.25)

(Pair)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
AFR	12.5x3	15x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

9 Rated power input of each model is tabulated below.

(Pair)

	FCQ125C	FCQ125C	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.54	3.88	3.96	4.45	4.05	4.15
Heating	3.58	4.36	3.59	4.36	3.99	4.50	4.36	3.69

(Triple)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
Cooling	4.08	4.08	4.13	4.19	4.45
Heating	4.59	4.59	4.26	4.20	4.74

(Twin)

	FCQ60C2	FCQ60B2	FFQ602	FBQ602	FHQ602
AFR	13.5x2	16x2	15x2	19x2	17x2
(BF)	(0.21x2)	(0.1x2)	(0.11x2)	(0.11x2)	(0.2x2)

(Double Twin)

	FCQ35C4	FCQ35B4	FFQ354	FBQ354	FHQ354
AFR	10.5x4	14x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

(Twin)

	FCQ35C2	FCQ35B2	FFQ352	FBQ352	FHQ352
Cooling	4.08	4.08	4.13	4.19	4.45
Heating	4.59	4.59	4.26	4.20	4.74

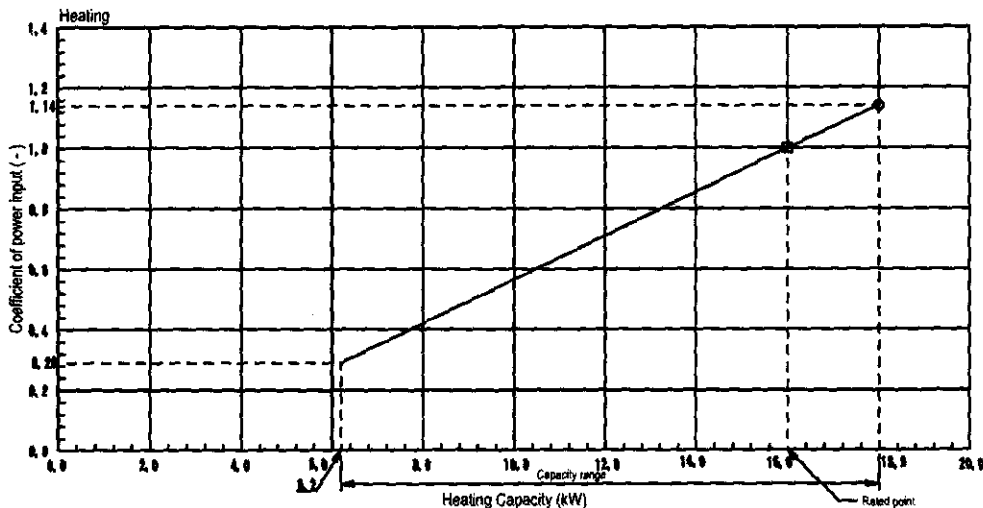
(Double Twin)

	FCQ35C4	FCQ35B4	FFQ354	FBQ354	FHQ354
Cooling	4.08	4.08	4.13	4.19	4.45
Heating	4.59	4.59	4.26	4.20	4.74

5 Capacity tables

5 - 3 Heating capacity tables

RZQ140B



Heating

Indoor EDB °C	Outdoor temperature (°C DB)											
	-15		-10		-5		0		6		10	
	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)
16.0	9.82	0.86	10.8	0.91	11.9	0.95	12.9	1.00	18.0	1.05	19.5	1.11
18.0	9.80	0.90	10.8	0.94	11.8	0.99	12.9	1.04	18.0	1.09	19.4	1.15
20.0	9.79	0.94	10.8	0.98	11.8	1.03	12.9	1.08	18.0	1.14	19.4	1.20
21.0	9.79	0.95	10.8	1.00	11.8	1.05	12.8	1.10	18.0	1.16	19.4	1.22
22.0	9.78	0.97	10.8	1.02	11.8	1.07	12.8	1.12	18.0	1.19	19.4	1.24
24.0	9.77	1.00	10.8	1.06	11.8	1.11	12.8	1.17	18.0	1.23	19.4	1.29

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NOTES

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

SYMBOLS

AFR	Air flow rate	(m ³ /min.)
BF	Bypass factor	
EWB	Entering wet bulb temp.	(°C DB)
EDB	Entering dry bulb temp.	(°C DB)
TC	Total cooling (heating) capacity	(kW)
SHC	Sensible heat capacity	(kW)
PI	Power input (Comp.+indoor+outdoor fan motor).	(kW)
CPI	Coefficient of power input	(-)
Caution	TC and SHC are shown by kW.	

(Pair)

	FCQ140C	FCQ140C	FCQ140D
AFR	32.5	27.5	30
(BF)	(0.19)	(0.22)	(0.07)

(Pair)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
AFR	12.5x3	15x3	12x3	14x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

9 Rated power input of each model is tabulated below.

	FCQ140C	FCQ140C	FCQ140D
Cooling	4.65	5.36	4.65
Heating	5.52	5.69	4.52

(Triple)

	FCQ50C3	FCQ50B3	FFQ503	FBQ503	FHQ503
Cooling	4.61	4.81	4.96	4.95	4.99
Heating	5.52	5.52	5.11	5.06	5.69

(Twin)

	FCQ71C2	FCQ71B2	FBQ712	FHQ712	FUQ712	FAQ712
AFR	15.5x2	18x2	19x2	17x2	19x2	19x2
(BF)	(0.19x2)	(0.1x2)	(0.11x2)	(0.1x2)	(0.07x2)	(0.06x2)

(Double Twin)

	FCQ35C4	FCQ35B4	FFQ354	FBQ354	FHQ354
AFR	10.5x4	14x4	10x4	11.5x4	13x4
(BF)	(0.28x4)	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

(Twin)

	FCQ71C2	FCQ71B2	FBQ712	FHQ712	FUQ712	FAQ712
Cooling	4.81	4.81	4.95	4.99	4.99	4.92
Heating	5.52	5.52	5.06	5.69	5.05	5.22

(Double Twin)

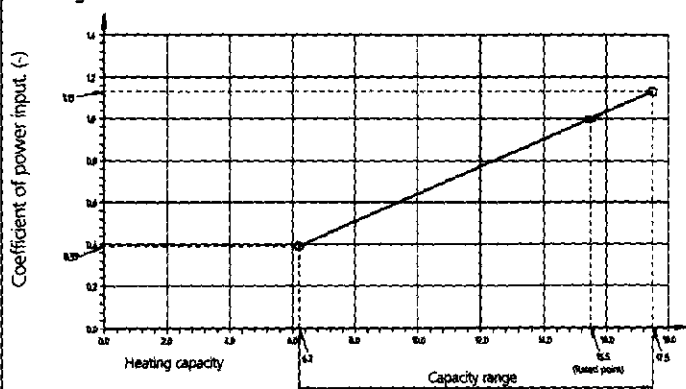
	FCQ35C4	FCQ35B4	FFQ354	FBQ354	FHQ354
Cooling	4.81	4.81	4.86	4.95	4.99
Heating	5.52	5.52	5.11	5.06	5.69

5 Capacity tables

5 - 3 Heating capacity tables

RZQ140B8W1 (Pair)

Heating



Heating capacity

400V (50Hz)

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

- This capacity table is only valid for pair combination with FBQ140.
- Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- 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/5° CWB (heating)
 Corresponding refrigerant piping length : 7.5 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 capacity include the drop of frost formation.
- Air flow rate and BF are tabulated below.

Model	FBQ140
AFR	35
(BF)	(0.14)

- Rated power input of each model is tabulated below.

Model	RZQ140C7
Outdoor	RZQ140C7
Indoor	RZQ140C7
Cooling	4.76kW
Heating	4.82kW

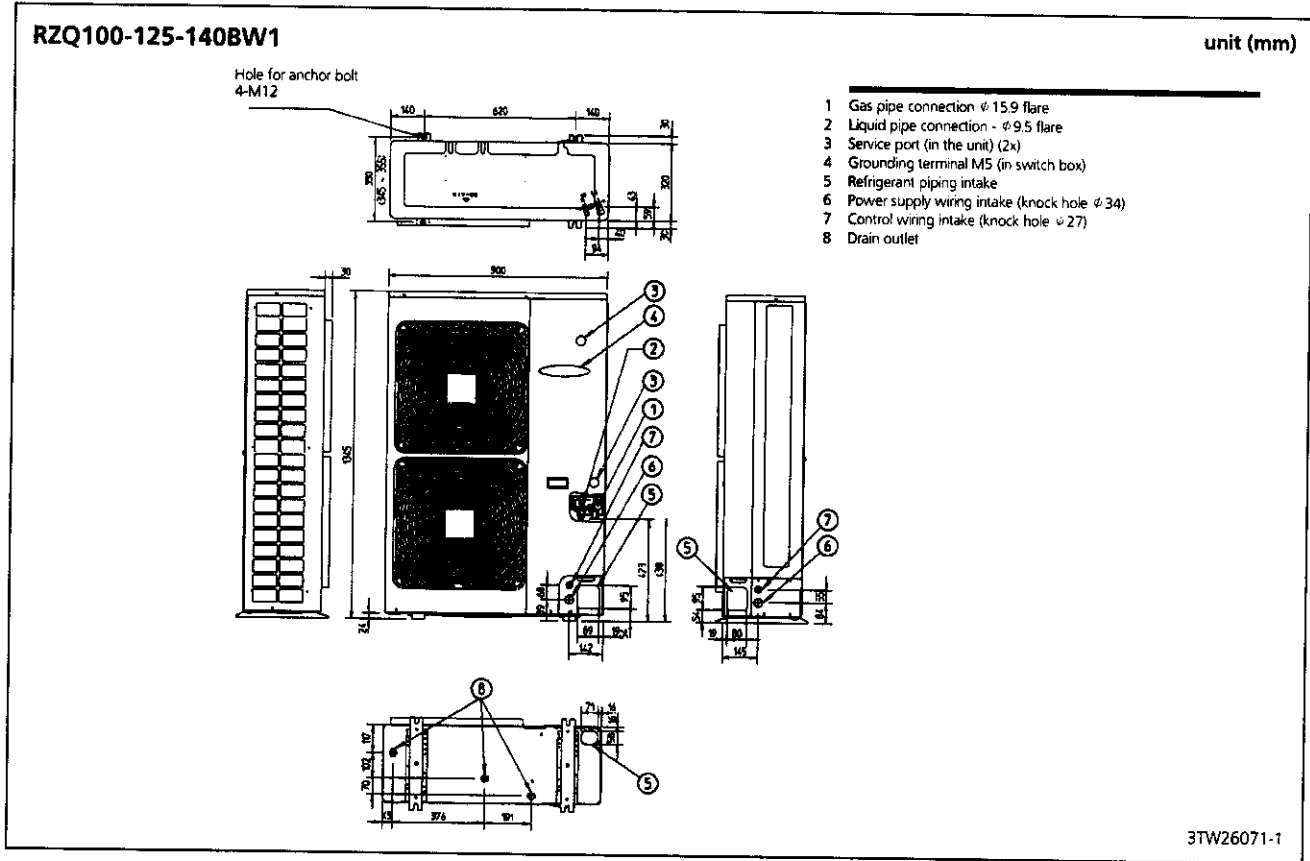
SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible 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

6 Dimensional drawing & centre of gravity

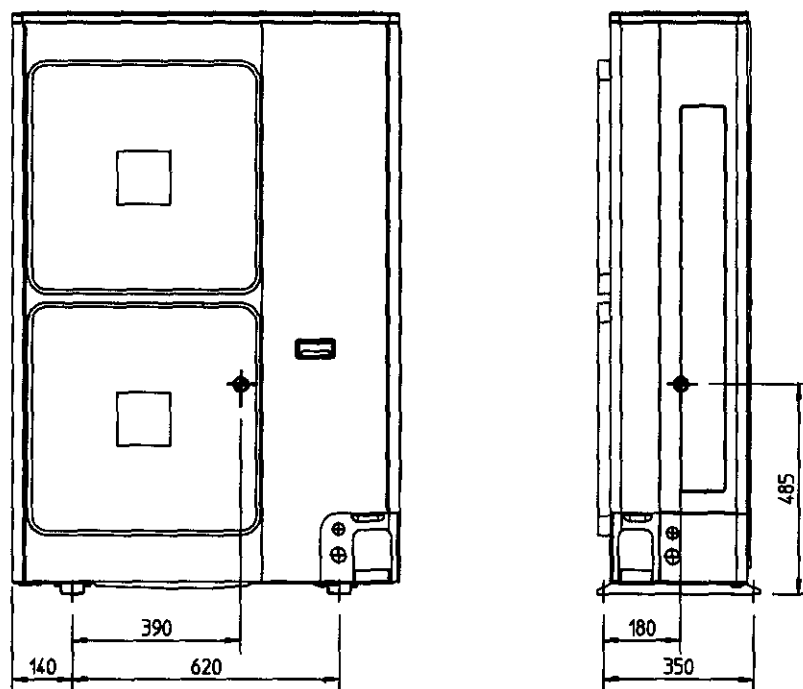
6 - 1 Dimensional drawing



6 Dimensional drawing & centre of gravity

6 - 2 Centre of gravity

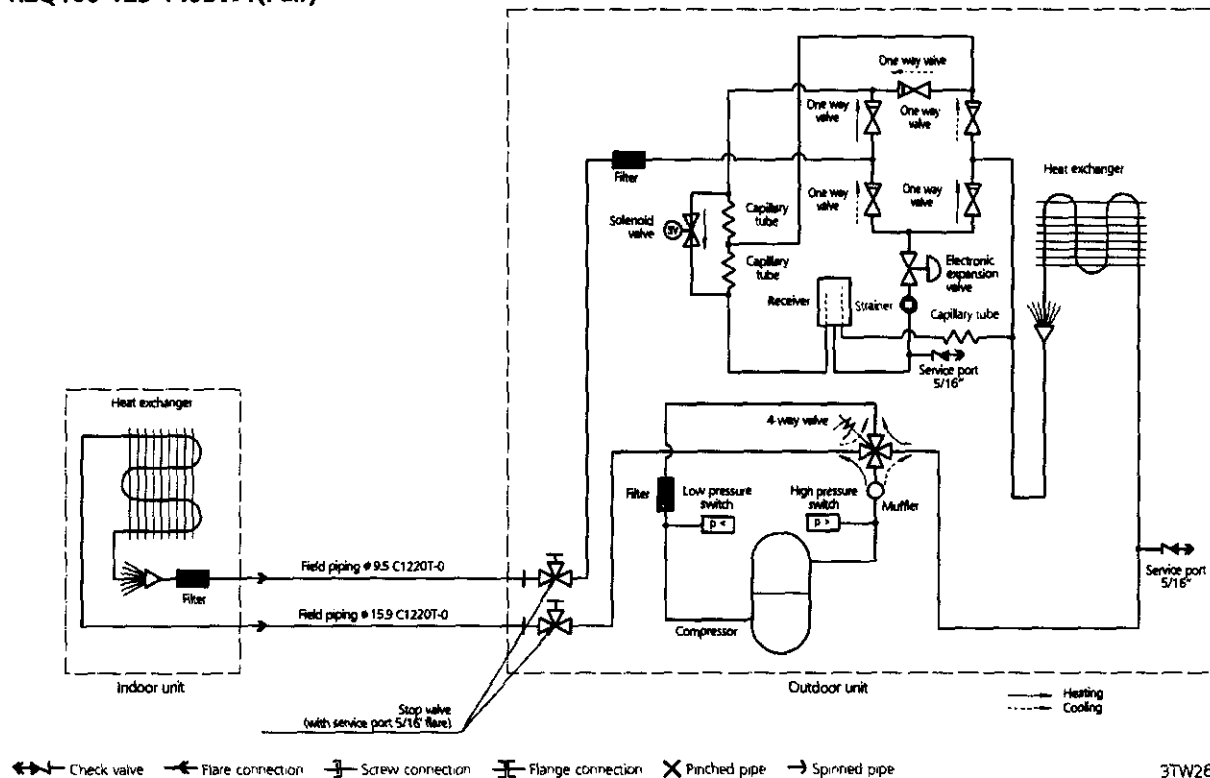
RZQ-BW1



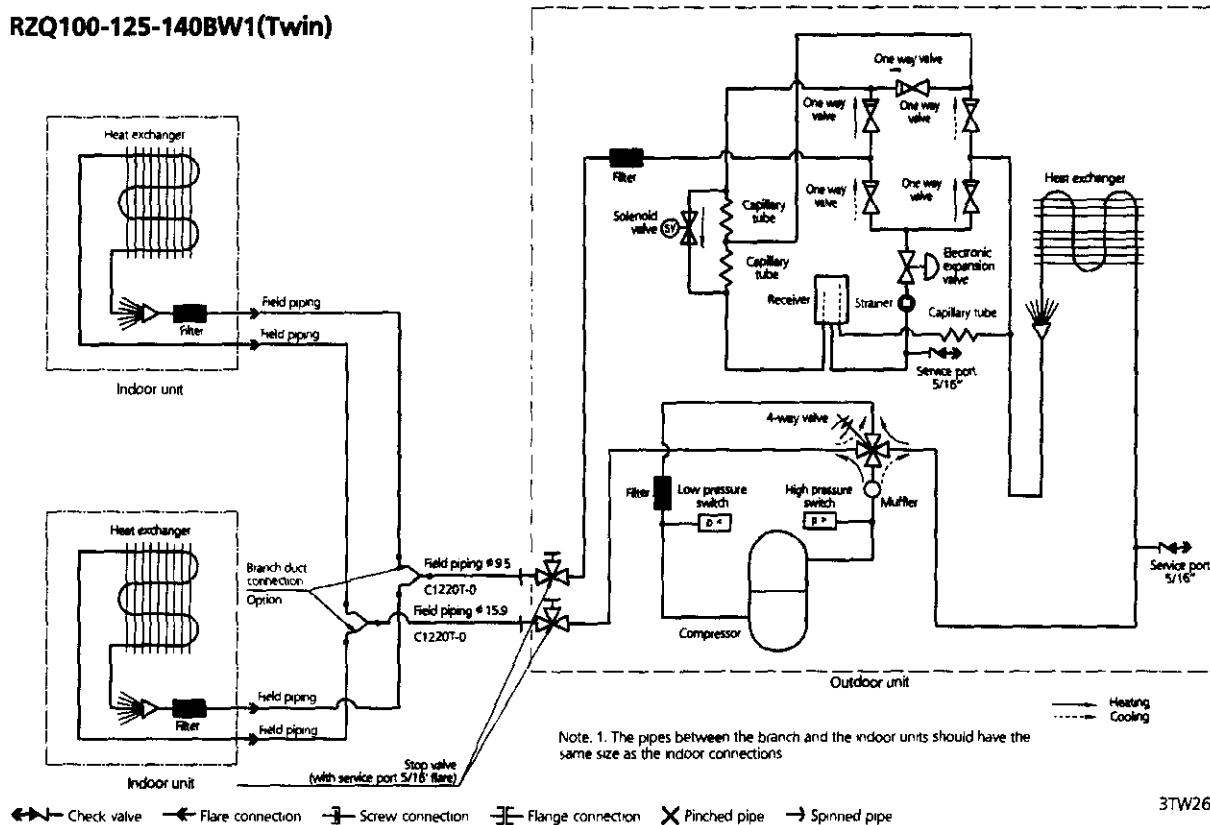
4TW26079-3

7 Piping diagram

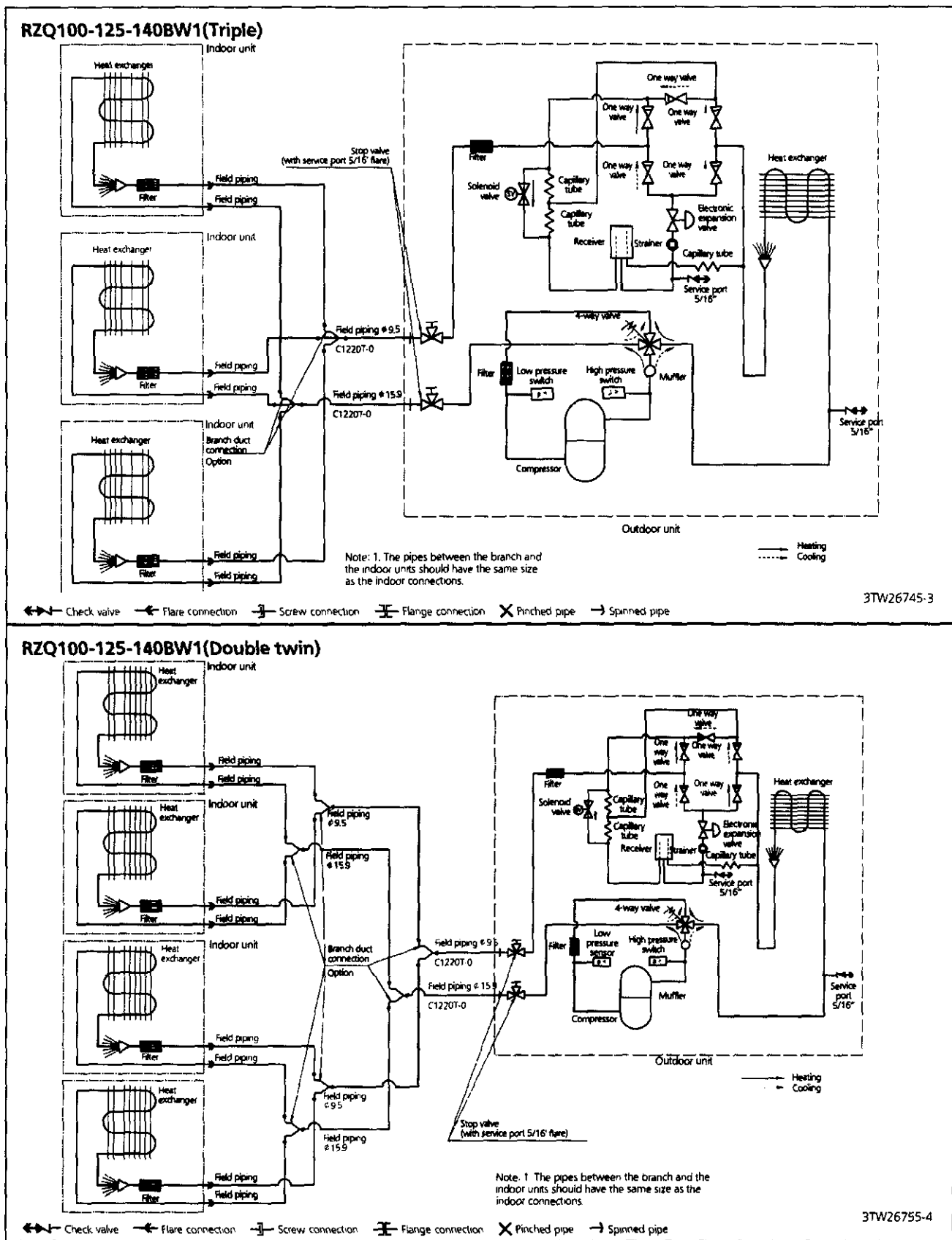
RZQ100-125-140BW1(Pair)



RZQ100-125-140BW1(Twin)

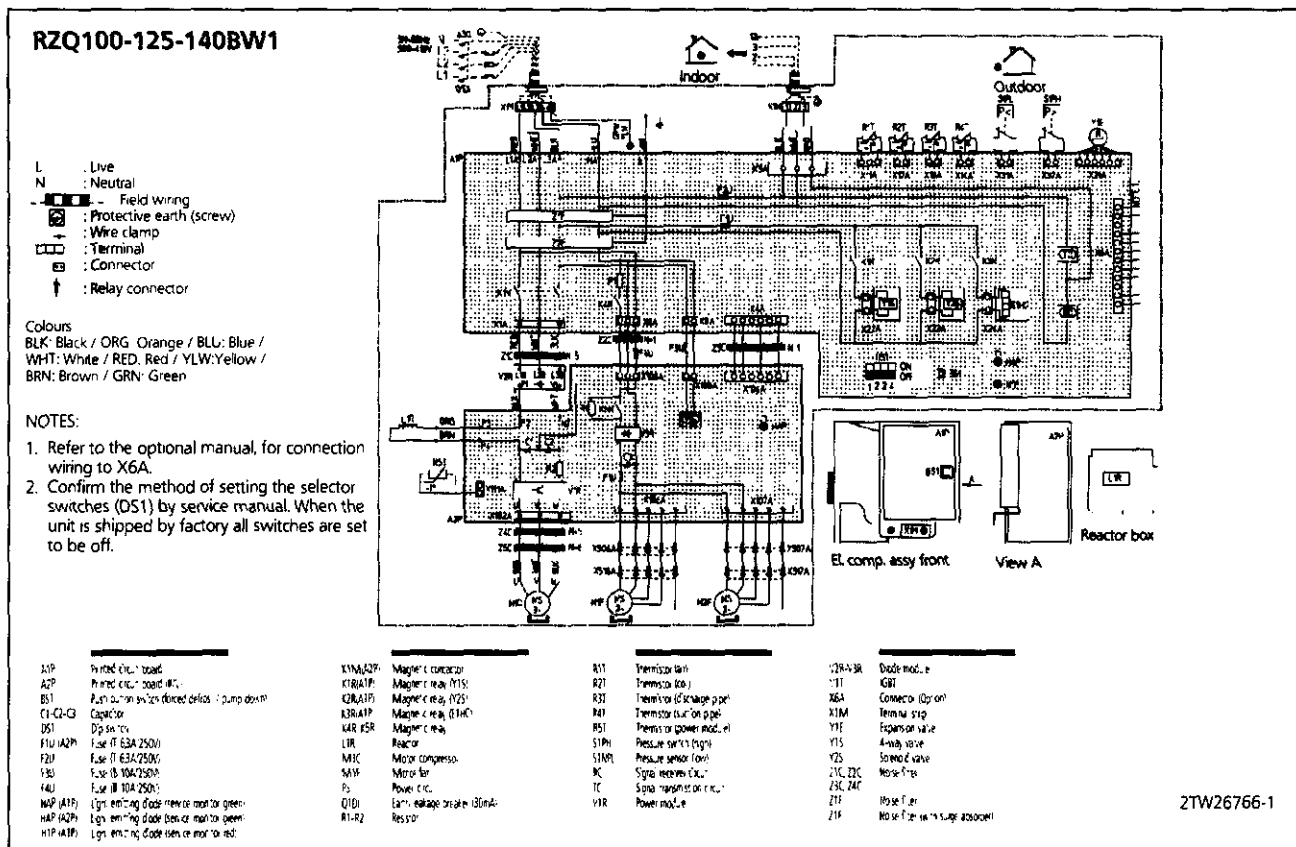


7 Piping diagram



8 Wiring diagram

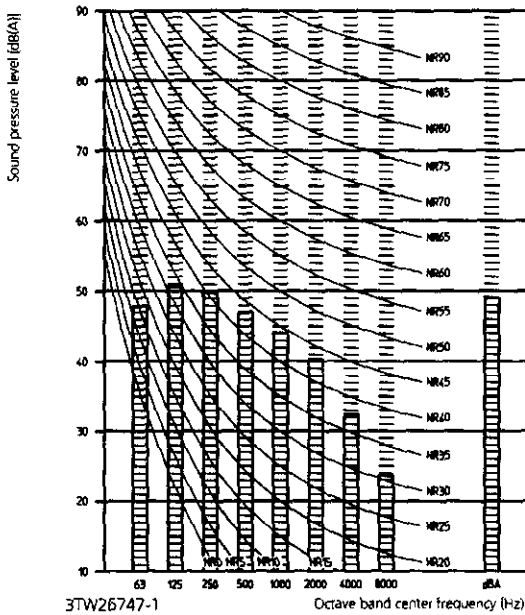
8 - 1 Wiring diagram



9 Sound data

9 - 1 Sound pressure spectrum

RZQ100BW1 - Cooling



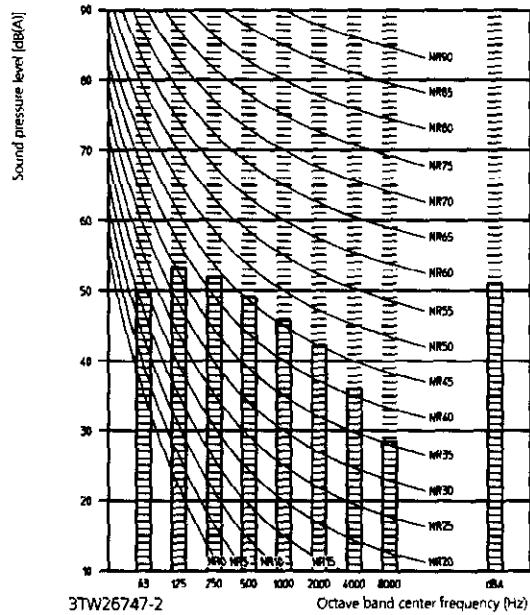
3TW26747-1

NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure $0\text{dB} = 20\mu\text{Pa}$

Measuring location
(discharge side)

RZQ100BW1 - Heating



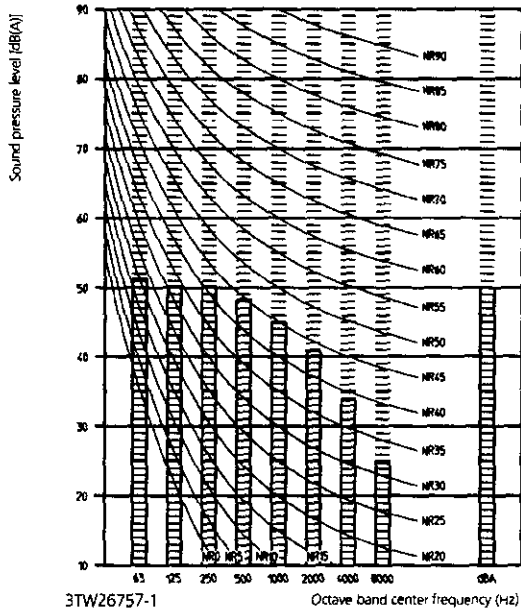
3TW26747-2

NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure $0\text{dB} = 20\mu\text{Pa}$

Measuring location
(discharge side)

RZQ125BW1 - Cooling



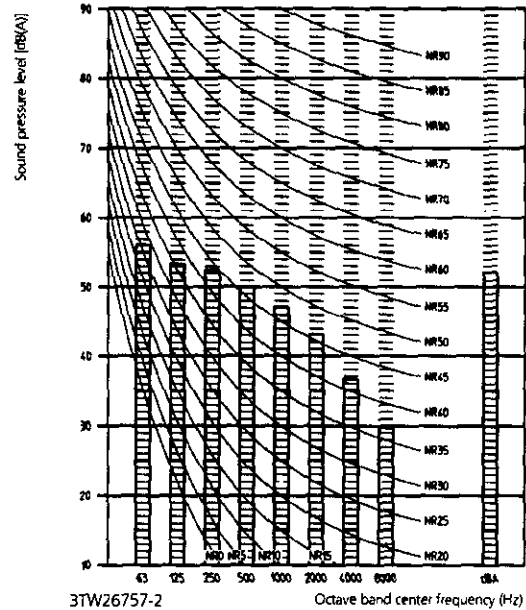
3TW26757-1

NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure $0\text{dB} = 20\mu\text{Pa}$

Measuring location
(discharge side)

RZQ125BW1 - Heating



3TW26757-2

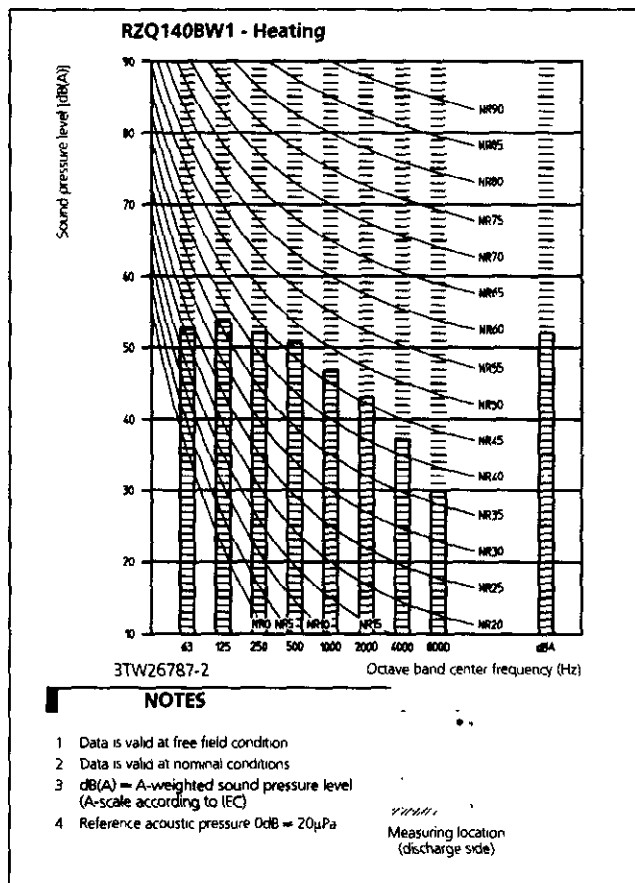
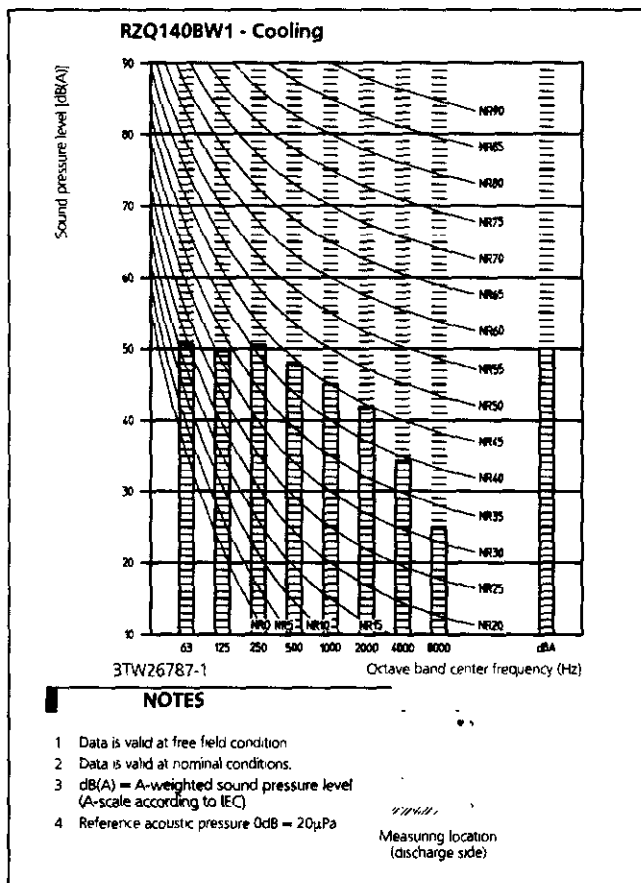
NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure $0\text{dB} = 20\mu\text{Pa}$

Measuring location
(discharge side)

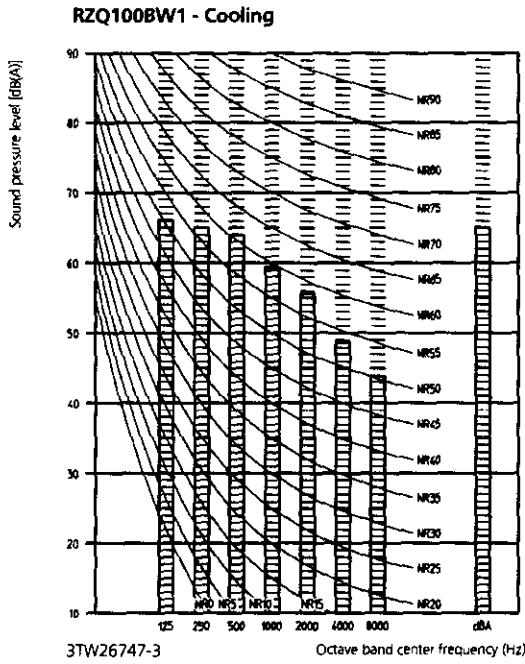
9 Sound data

9 - 1 Sound pressure spectrum



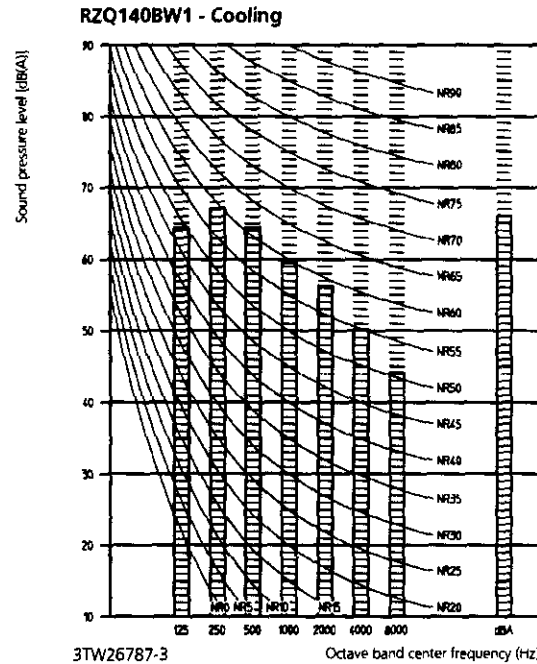
9 Sound data

9 - 2 Sound power spectrum



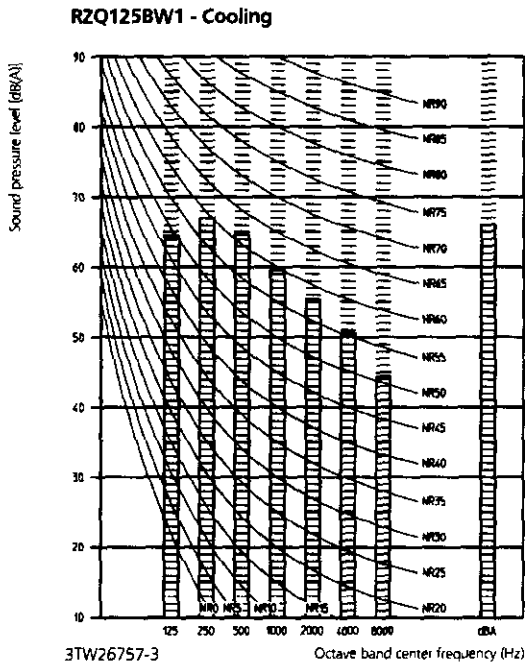
NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa



NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa



NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions
- 3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa

10 Installation

10 - 1 Installation method

RZQ100-125-140BW1

A. Non stacked installation

Legend

[illegible]

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.

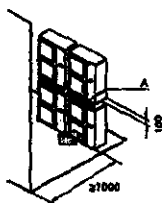
In these cases, only 2 units can be installed.

■ This situation is not allowed.

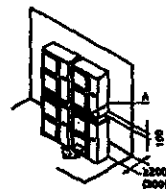
Figures between () indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



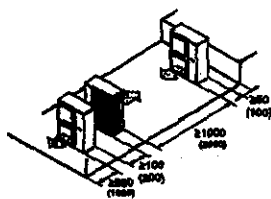
2. Obstacles exist in front of the air inlet



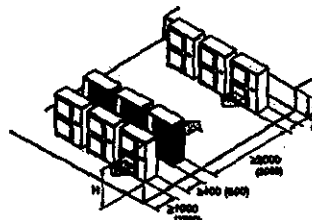
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

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.

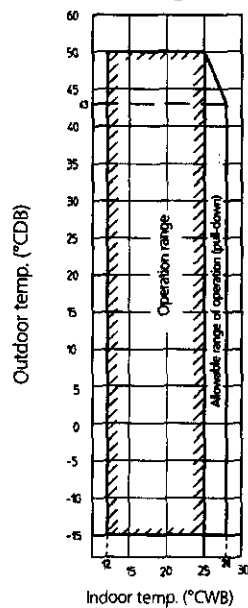
	L	A
$L \leq H$	$0 < L \leq 1/2 H$	150 (250)
	$1/2 H < L$	200 (300)
$H < L$	Installation impossible	

3TW26739-4

11 Operation range

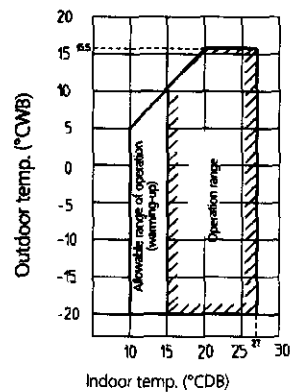
RZQ-BW1

Cooling



Model name
RZQ100B7W1B
RZQ125B7W1B
RZQ140B7W1B

Heating



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.

3TW26733-1A