DAIKIN

EEDEN08-100

technical data

air conditioning systems

RZQ71-140C7V1B

Outdoor units

Split Sky Air

R-410A

1

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RZQ71-140C7V1B

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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



2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQ71C7V1B	RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
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	1.98	2.66	3.70	4.64
	Heating	Standard	kW	1.97	2.55	3.57	4.43
For combination indoor units + outdoor units	EER	Nominal		3.59	3.76	3.38	3.02
	COP	Nominal		4.06	4.39	3.92	3.61
	Energy Label	Cooling		A	A	A	B
		Heating		A			
	Annual energy consumption		kWh	990	1330	1850	2320
	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	2.11	2.77	3.88	5.36
	Heating	Standard	kW	2.21	3.02	3.95	4.98
For combination indoor units + outdoor units	EER	Nominal		3.36	3.61	3.22	2.61
	COP	Nominal		3.62	3.71	3.54	3.21
	Energy Label	Cooling		A	A	A	D
		Heating		A	A	B	C
	Annual energy consumption		kWh	1,055	1385	1940	2680
	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	2.21	3.00	3.97	4.77
	Heating	Standard	kW	2.13	2.99	3.98	4.83
For combination indoor units + outdoor units	EER	Nominal		3.21	3.33	3.14	2.81
	COP	Nominal		3.76	3.75	3.52	3.21
	Energy Label	Cooling		A	A	B	C
		Heating		A	A	B	C
	Annual energy consumption		kWh	1,105	1500	1985	2385
	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	2.46	3.3	4.45	
	Heating	Standard	kW	2.67	3.49	4.36	
For combination indoor units + outdoor units	EER	Nominal		2.89	3.03	2.81	
	COP	Nominal		3.00	3.21	3.21	
	Energy Label	Cooling		C	B	C	
		Heating		D	C	C	
	Annual energy consumption		kWh	1,230	1650	2225	
	Indoor Units			FAQ71BVV1B	FAQ100BVV1B	FDQ125B8V3B	
Cooling capacity	Standard	kW		7.1	10	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.36	3.45	4.15	
	Heating	Standard	kW	2.42	3.27	3.67	
For combination indoor units + outdoor units	EER	Nominal		3.01	2.9	3.01	
	COP	Nominal		3.31	3.43	3.81	
	Energy Label	Cooling		B	C	B	
		Heating		C	B	A	
	Annual energy consumption		kWh	1,180	1725	2075	
	Indoor Units			FUQ71BVV1B	FUQ100BVV1B	FUQ125BVV1B	
Cooling capacity	Standard	kW		7.1	10	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.21	3.12	4.15	
	Heating	Standard	kW	2.34	3.37	4.33	

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQ71C7V1B	RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
For combination indoor units + outdoor units	EER	Nominal		3.21	3.21	3.01	
	COP	Nominal		3.42	3.32	3.23	
	Energy Label	Cooling		A	A	B	
		Heating		B	C	C	
	Annual energy consumption		kWh	1,105	1560	2075	

2-2 TECHNICAL SPECIFICATIONS				RZQ71C7V1B	RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
Casing	Colour			Ivory White			
	Material			Paintable galvanized steel plate			
Dimensions	Unit	Height	mm	770	1170	1170	1170
		Width	mm	900	900	900	900
		Depth	mm	320	320	320	320
	Packing	Height	mm	900	1349	1349	1349
		Width	mm	980	980	980	980
		Depth	mm	420	420	420	420
Weight	Unit		kg	67	103	103	103
	Packed Unit		kg	71	114	114	114
Heat Exchanger	Dimensions	Length	mm	857	857	857	857
		Nr of Rows		2	2	2	2
		Fin Pitch	mm	1.4	1.4	1.4	1.4
		Nr of Passes		8	10	10	10
		Face Area	m²	0.641	0.98	0.98	0.98
		Nr of Stages		34	52	52	52
	Tube type			Hi-XSS(8)			
	Fin	Type		WF fin			
		Treatment		Anti-corrosion treatment (PE)			
Fan	Type			Propeller			
	Discharge direction			Horizontal			
	Quantity			1	2	2	2
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	52	96	100	97
		Heating	m³/min	52	75	88	88
	Motor	Quantity		1	2	2	2
		Model		KFD-325-70-8A	Brushless DC Motor		
Motor	Speed (nominal)	Steps		8	8	8	8
		Cooling (Standard)	rpm	800	800	850	830
		Heating (Standard)	rpm	745	640	740	740
Fan	Motor	Output	W	70	70	70	70
Compressor	Quantity			1	1	1	1
	Motor	Model		2YC63DXD	JT100G-VD	JT100G-VD	JT100G-VD
		Type		Hermetically sealed swing compressor	Hermetically sealed scroll compressor		
		Motor Output	W	1,700	2,200	2,200	2,200
		Crankcase Heater	W		33	33	33
		Starting Method		Inverter driven			
Operation Range	Cooling	Min	°CDB	-15.0	-15.0	-15.0	-15.0
		Max	°CDB	50.0	50.0	50.0	50.0
	Heating	Min	°CWB	-20.0	-20.0	-20.0	-20.0
		Max	°CWB	15.5	15.5	15.5	15.5
Sound Level (nominal)	Cooling	Sound Power	dBA	63	65	66	67
		Sound Pressure (Standard)	dBA	47	49	50	50
	Heating	Sound Pressure (Standard)	dBA	49	51	52	52
Sound Level (Night quiet)	Sound Pressure		dBA	43	45	45	46

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RZQ71C7V1B	RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
Refrigerant	Type			R-410A			
	Charge		kg	2.75	3.7	3.7	3.7
	Control			Expansion valve (electronic type)			
	Nr of Circuits			1	1	1	1
Refrigerant Oil	Type			FVC50K	Daphne FVC68D	Daphne FVC68D	Daphne FVC68D
	Charged Volume		l	0.75	1.0	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	50	75	75	75
		Equivalent	m	70	95	95	95
		Chargeless	m	30	30	30	30
	Additional Refrigerant Charge		kg/m	see installation manual 4PW40417-1	see installation manual 4PW34874-1		
	Installation height difference	Maximum	m	30.0	30.0	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			
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			

2-3 ELECTRICAL SPECIFICATIONS				RZQ71C7V1B	RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
Power Supply	Name			V1			
	Phase			1	1	1	1
	Frequency		Hz	50	50	50	50
	Voltage		V	220-240			
	Voltage range	Minimum	V	198	198	198	198
		Maximum	V	264	264	264	264
Current	Recomended fuses		A	20	32	32	32
Wiring connections	For Power Supply	Remark		see installation manual 4PW40417-1	see installation manual 4PW34874-1		
	For connection with indoor	Remark		see installation manual 4PW40417-1	see installation manual 4PW34874-1		
Power Supply Intake				Outdoor unit only			

2 Specifications

2-3 ELECTRICAL SPECIFICATIONS	RZQ71C7V1B	RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
Notes	See separate drawings for electrical data			
	(1) European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A smaller than or equal to 75A per phase.			
	(2) Short-circuit power			
			Power supply to the FDQ indoor unit is separate	

3 Electrical data

RZQ(S)71-100C

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			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	50-220		17.7	–	20	–	16.2	0.07	0.3	0.055x2	0.6x2
FBQ71B7V3B	RZQ71C7V1B	50-230	Max. 50Hz 264V	17.4	–	20	–	16.2	0.07	0.3	0.125	0.9
FBQ35B7V1x2	RZQ71C7V1B	50-240	Min. 50Hz 198V	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			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	50-220		17.7	–	20	–	16.2	0.07	0.3	0.055x2	0.6x2
FBQ71B7V3B	RZQS71C7V1B	50-230	Max. 50Hz 264V	17.4	–	20	–	16.2	0.07	0.3	0.125	0.9
FBQ35B7V1x2	RZQS71C7V1B	50-240	Min. 50Hz 198V	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			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	50-220		19.8	–	20	–	17.7	0.07	0.3	0.055x3	0.6x3
FBQ100B7V3B	RZQS100C7V1B	50-230	Max. 50Hz 264V	19.0	–	20	–	17.7	0.07	0.3	0.135	1.0
FBQ50B7V1x2	RZQS100C7V1B	50-240	Min. 50Hz 198V	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

RZQ100-125-140C

Unit combination		Power supply					Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQH100C7VEB	RZQ100C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	1.4
FCQ100C7VEB	RZQ100C7V1B			24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	0.7
FCQ50C7VEBx2	RZQ100C7V1B			24.6	24.6	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x2	0.3x2
FCQ35C7VEBx3	RZQ100C7V1B			24.9	24.9	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3
FFQ50BV1Bx2	RZQ100C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ35BV1Bx3	RZQ100C7V1B			25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x3	0.6x3
FBQ100B7V3B	RZQ100C7V1B	50-220	Max. 50Hz 264V Min. 50Hz 198V	25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.135	1.0
FBQ50B7V1x2	RZQ100C7V1B	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.085x2	0.7x2
FBQ35B7V1x3	RZQ100C7V1B	50-240		25.5	25.5	32	23.4	23.4	0.07+0.07	0.3+0.3	0.065x3	0.5x3
FHQ100BUV1B	RZQ100C7V1B			24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ50BUV1Bx2	RZQ100C7V1B			25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ35BUV1Bx3	RZQ100C7V1B			25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FAQ100BUV1B	RZQ100C7V1B			24.4	24.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.049	0.4
FUQ100BUV1B	RZQ100C7V1B			25.1	25.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.1
FCQH125C7VEB	RZQ125C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	1.4
FCQ125C7VEB	RZQ125C7V1B			25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	1.0
FCQ60C7VEBx2	RZQ125C7V1B			24.8	24.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x2	0.4x2
FCQ50C7VEBx3	RZQ125C7V1B			24.9	24.9	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3
FCQ35C7VEBx4	RZQ125C7V1B			25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x4	0.3x4
FFQ60BV1Bx2	RZQ125C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ50BV1Bx3	RZQ125C7V1B			26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3
FFQ35BV1Bx4	RZQ125C7V1B			26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4
FBQ125B7V3B	RZQ125C7V1B	50-220	Max. 50Hz 264V Min. 50Hz 198V	25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.225	1.4
FBQ60B7V1x2	RZQ125C7V1B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.125x2	0.9x2
FBQ50B7V1x3	RZQ125C7V1B	50-240		26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.085x3	0.7x3
FBQ35B7V1x4	RZQ125C7V1B			26.0	26.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.065x4	0.5x4
FHQ125BUV1B	RZQ125C7V1B			24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ60BUV1Bx2	RZQ125C7V1B			25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3	RZQ125C7V1B			25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FHQ35BUV1Bx4	RZQ125C7V1B			26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4
FUQ125BUV1B	RZQ125C7V1B			25.1	25.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.1
FDQ125B7V3B	RZQ125C7V1B			28.2	28.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.500	4.2
FCQH140C7VEB	RZQ140C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	1.4
FCQ140C7VEB	RZQ140C7V1B			25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	1.0
FCQ71C7VEBx2	RZQ140C7V1B			25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x2	0.5x2
FCQ50C7VEBx3	RZQ140C7V1B			24.9	24.9	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3
FCQ35C7VEBx4	RZQ140C7V1B			25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.056x4	0.3x4
FFQ50BV1Bx3	RZQ140C7V1B			26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3
FFQ35BV1Bx4	RZQ140C7V1B			26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4
FBQ71B7V3Bx2	RZQ140C7V1B	50-220	Max. 50Hz 264V Min. 50Hz 198V	25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.125x2	0.9x2
FBQ50B7V1x3	RZQ140C7V1B	50-230		26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.085x3	0.7x3
FBQ35B7V1x4	RZQ140C7V1B	50-240		26.0	26.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.065x4	0.5x4
FHQ71BUV1Bx2	RZQ140C7V1B			25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3	RZQ140C7V1B			25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FHQ35BUV1Bx4	RZQ140C7V1B			26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4
FAQ71BUV1Bx2	RZQ140C7V1B			24.6	24.6	32	23.4	23.4	0.07+0.07	0.3+0.3	0.043x2	0.3x2
FUQ71BUV1Bx2	RZQ140C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x2	0.7x2

3D057295

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 20.0°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)
8 For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4 Options

RZQ100-125-140C

Name of option		Kit name		
		RZQ100C7V1B	RZQ125C7V1B	RZQ140C7V1B
Central drain plug		KKPJ5F180		
Refrigerant branch piping	Twin	KHRQ22M20TA		
	Triple	KHRQ127H		
	Double twin	-	KHRQ22M20TA (3x)	
Demand adapter kit		KRP58M51		

3TW26739-1E

5 Capacity tables

5 - 1 Combination table

Refrigerant R410A

Outdoor unit: Model name	Hi casette		Thin cassette				2x2 cassette		Duct (medium ESP)				Ceiling suspended				4way ceiling	Wall-mounted	
	FCQH71C7VEB	FCQH100C7VEB	FCQ35C7VEB	FCQ50C7VEB	FCQ71C7VEB	FCQ100C7VEB	FFQ35B8V1B	FFQ50B8V1B	FBQ35B8V1	FBQ50B8V1	FBQ71B8V3B	FBQ100B8V3B	FHQ35BUV1B	FHQ50BUV1B	FHQ71BUV1B	FHQ100BUV1B	FUQ71BUV1B	FAQ71BUV1B	FAQ100BUV1B
RZQ71C7V1B	P		2		P		2		2		P		2		P		P	P	
RZQS71C7V1B	P		2		P		2		2		P		2		P			P	
RZQS100C7V1B		P	3	2		P	3	2	3	2		P	3	2		P			P

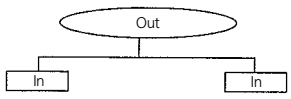
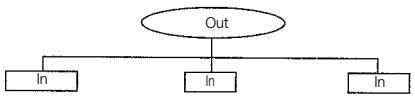
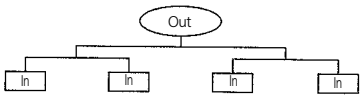
P = Pair 71 100
2 = Twin 35+35 50+50
3 = Triple 35+35+35

3TW30469-1

NOTES

1 See main specifications table about MAX cooling capacity & heating capacity.
2 Combinations are possible regardingless type of I/U. (e.g. RZQS100 can be combined with FFQ50 + FBQ50)
3 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
4 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).
5 Refnet kits that are necessary to install the combinations:
Twin: **KHRQ22M20TA**
Triple: **KHRQ127H**

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

Outdoor models	Possible indoor combination		
	Simultaneous operation		
	Twin	Triple	Double twin
			
RZQ100C7V1B	50-50 (KHRQ22M20TA)	35-35-35 (KHRQ127H)	
RZQ125C7V1B	60-60 (KHRQ22M20TA)	50-50-50 (KHRQ127H)	35-35-35-35 (3x KHRQ22M20TA)
RZQ140C7V1B	71-71 (KHRQ22M20TA)	50-50-50 (KHRQ127H)	35-35-35-35 (3x KHRQ22M20TA)

3TW29189-1

NOTES

1 Possible indoor units: FCQH71C, FCQ35-71C, FFQ35-60BV, FHQ35-71B, FBQ35-71B, FAQ71B, FUQ71B
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 - 1 Combination table

EDP room specifications

Refrigerant R410A

		Hi casette	Thin cassette			2x2 cassette		Duct (medium ESP)			Ceiling suspended			4way ceiling	Wall mounted
	Model name	FCQH100C7VEB	FCQ35C7VEB	FCQ50C7VEB	FCQ100C7VEB	FFQ35B8V1B	FFQ50B8V1B	FBQ35B8V1	FBQ50B8V1	FBQ100B8V3B	FHQ35BUV1B	FHQ50BUV1B	FHQ100BUV1B	FUQ100BUV1B	FAQ100BUV1B
Outdoor unit	**RZQ71C7V1B**	P	3	2	P	3	2	3	2	P	3	2	P	P	P

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

3TW30489-2

NOTES

1 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
2 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).
3 Refnet kits that are necessary to install the combinations:
Twin: **KHRQ22M20TA**
Triple: **KHRQ127H**

EDP room specifications
Possible combinations and standard capacity for twin, triple and double twin application

		P = Pair 2 = Twin 3 = Triple 4 = Double twin		Hi casette				Thin cassette							2x2 cassette			Duct (medium ESP)							Ceiling suspended						4way ceiling			Wall mounted		High ESP duct
		HP		3	4	5	6	1.5	2	2.5	3	4	5	6	1.5	2	2.5	1.5	2	2.5	3	4	5	6	1.5	2	2.5	3	4	5	3	4	5	3	4	5
			Model name	FCQH71C7VEB	FCQH100C7VEB	FCQH125C7VEB	FCQH140C7VEB	FCQ35C7VEB	FCQ50C7VEB	FCQ60C7VEB	FCQ71C7VEB	FCQ100C7VEB	FCQ125C7VEB	FCQ140C7VEB	FFQ35B8V1B	FFQ50B8V1B	FFQ60B8V1B	FBQ35B8V1	FBQ50B8V1	FBQ60B8V1	FBQ71B8V3B	FBQ100B8V3B	FBQ125B8V3B	FBQ140B8V3B	FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B	FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B	FUQ71BUV1B	FUQ100BUV1B	FUQ125BUV1B	FAQ71BUV1B	FAQ100BUV1B	FDQ125B8V3B
Outdoor unit	Heat pump (Hi COP)	4	**RZQ100C7V1B**	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2			2		
		5	**RZQ125C7V1B**	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2			2		
		6	**RZQ140C7V1B**																																		

3TW29189-2

NOTES

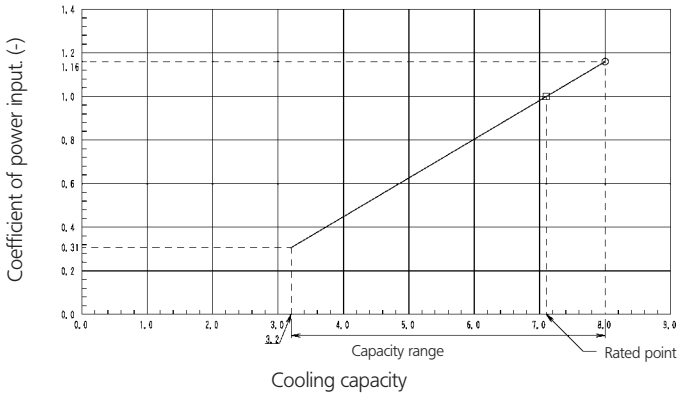
1 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
2 When different indoor models are used in combination, designate the infrared remote controller that is equipped with the most functions as the main unit. In note 1 are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).
3 Refnet kits that are necessary to install the combinations:
Twin: **KHRQ22M20TA**
Triple: **KHRQ127H**
Double twin: **KHRQ22M20TA**

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ71C7V1B

Cooling



Cooling

Indoor		Outdoor temp. (°CDB)											
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	7.29	4.95	0.88	7.28	4.99	1.03	7.50	5.21	1.15	7.20	5.06	1.26
18.0	25	8.37	5.43	0.96	8.11	5.32	1.06	7.83	5.19	1.15	7.52	5.04	1.28
19.0	27	8.54	5.41	0.97	8.28	5.31	1.06	8.00	5.18	1.16	7.68	5.03	1.28
19.5	27	8.63	5.40	0.97	8.37	5.30	1.06	8.08	5.17	1.16	7.76	5.03	1.28
22.0	30	9.07	5.33	0.99	8.80	5.23	1.07	8.51	5.12	1.17	8.18	4.97	1.29
24.0	32	9.43	5.25	0.99	9.15	5.16	1.08	8.85	5.05	1.18	8.51	4.90	1.30

3D059956

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. 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.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. 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 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and BF are tabulated below.
   Pair

	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FUQ71
AFR (BF)	20 (0.17)	15.5 (0.19)	19 (0.11)	17 (0.10)	19 (0.08)	19 (0.07)

   Multi

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

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

	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FUQ71
Cooling	1.98	2.11	2.21	2.46	2.36	2.21

   Multi

	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.27	2.29	2.25	2.53

SYMBOLS

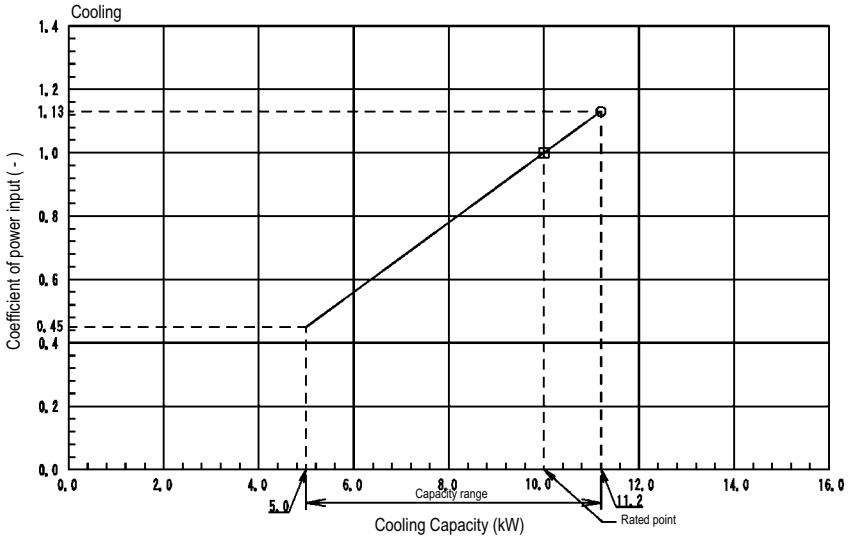
AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ100C



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

3D059957

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, onces 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 ecxept at standard condition.
3 SHC* is based on each EWB and EDB.
SHC= SHC correction for other dry bulb.
= 0.02xAFR (m^3/min.)x(1-BF)x(DB*-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 acording to indoor unit type.
7 Heating performance include the drop of frost formation.
8 Air flow rate and (BF) are tabulated below.

(Pair)

	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FUQ100
AFR (BF)	32.5 (0.17)	23.5 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)	29 (0.07)

(Triple)

	FCQ35Cx3	FFQ35Bx3	FBQ35x3	FHQ35x3
AFR (BF)	10.5x3 (0.28x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

(Twin)

	FCQ50Cx2	FCQ50Bx2	FFQ50x2	FBQ50x2
AFR (BF)	12.5x2 (0.21x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

9 Rated power input of each model is tabulated below.

(Pair)

	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.66	2.77	3.00	3.30	3.45	3.12
Heating	2.55	3.02	2.99	3.49	3.27	3.37

(Triple)

	FCQ35Cx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.92	2.93	3.16	3.48
Heating	3.18	3.20	3.15	3.67

(Twin)

	FCQ50Cx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.92	2.93	3.16	3.48
Heating	3.18	3.20	3.15	3.67

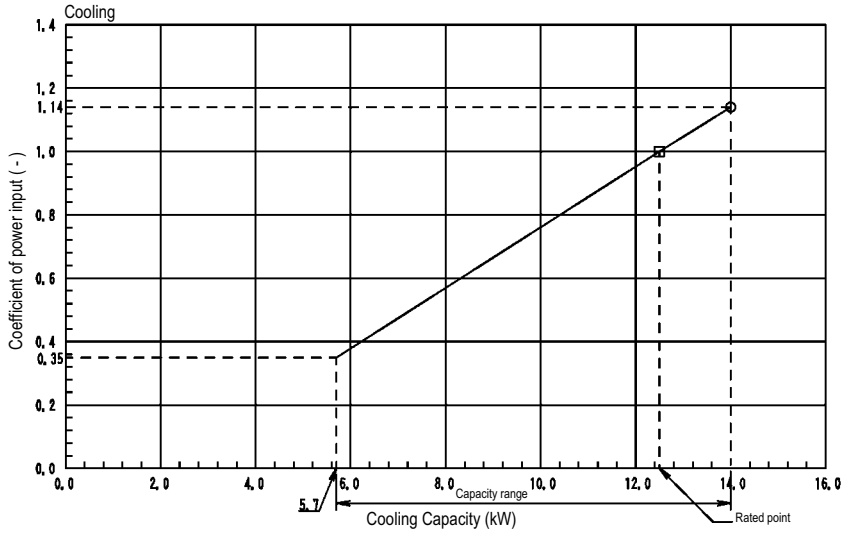
SYMBOLS

AFR	:	Air flow rate	(m3/mim.)
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.	

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ125C



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

3D059958

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, onces 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 ecxept at standard condition.
3 SHC* is based on each EWB and EDB.
SHC= SHC correction for other dry bulb.
= 0.02xAFR (m^3/min.)x(1-BF)x(DB*-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 acording to indoor unit type.
7 Heating performance include the drop of frost formation.
8 Air flow rate and (BF) are tabulated below.

(Pair)

	FCQH125C	FCQ125C	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	32.5 (0.19)	27.5 (0.19)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

(Pair)

	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR (BF)	12.5x3 (0.21x3)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.1x3)

(Twin)

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

(Double Twin)

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

9 Rated power input of each model is tabulated below.

(Pair)

	FCQH125C	FCQ125C	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.70	3.88	3.97	4.45	4.15	4.15
Heating	3.57	3.95	3.98	4.36	4.33	3.67

(Triple)

	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.12	4.18	4.45
Heating	4.16	4.25	4.19	4.59

(Twin)

	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.12	4.18	4.45
Heating	4.16	4.25	4.19	4.59

(Double Twin)

	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.12	4.18	4.45
Heating	4.16	4.25	4.19	4.59

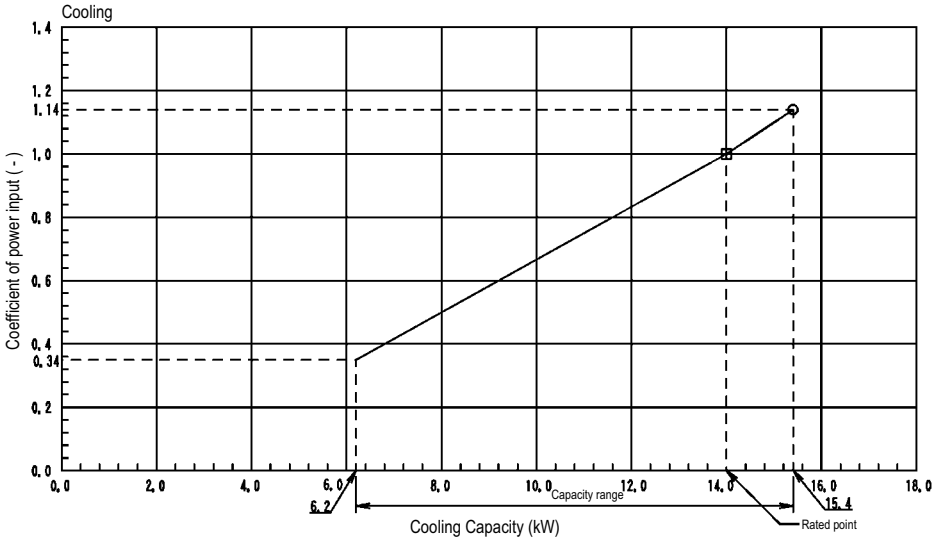
SYMBOLS

AFR	:	Air flow rate	(m3/mim.)
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.	

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ140C



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

3D059956

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, onces 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.
= 0.02xAFR (m^3/min.)x(1-BF)x(DB*-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 acording to indoor unit type.
7 Heating performance include the drop of frost formation.
8 Air flow rate and (BF) are tabulated below.

(Pair)

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

(Pair)

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

9 Rated power input of each model is tabulated below.

(Pair)

	FCQH140C	FCQ140C
Cooling	4.64	5.36
Heating	4.43	4.98

(Triple)

	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.09	4.86	4.95	4.99
Heating	4.98	5.11	5.06	5.69

SYMBOLS

AFR	:	Air flow rate	(m3/mim.)
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)

	FCQ71Cx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
AFR (BF)	15.5x2 (0.19x2)	19x2 (0.11x2)	17x2 (0.1x2)	19x2 (0.07x2)	19x2 (0.08x2)

(Double Twin)

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

(Twin)

	FCQ71Cx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
Cooling	5.09	4.95	4.99	4.99	4.92
Heating	4.98	5.06	5.69	5.05	5.22

(Double Twin)

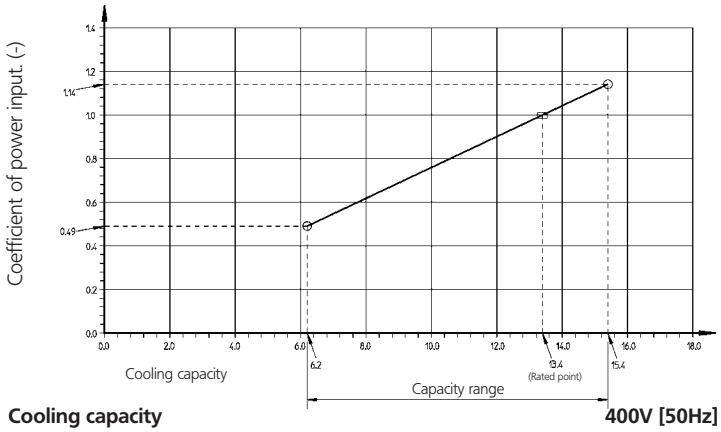
	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	5.09	4.86	4.95	4.99
Heating	4.98	5.11	5.06	5.69

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ140C (Pair)

Cooling



Cooling capacity **400V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
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	12.3	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.§	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

NOTES

1. This capacity table is only valid for pair combination with FBQ140
2. Ratings shown are net capacities which include a deduction for indoor fan motor heat
3. 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.
4. On the tables ▭ show rated capacity and rated coefficient of power input.
5. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
6. 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
7. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
8. The value contains less than 5% error acording to indoor unit type.
9. Heating capacity include the drop of frost formation.
10. Air flow rate and BF are tabulated below.
    Pair

Model	FBQ140
AFR (BF)	35 (0.14)

11. Rated power input of each model is tabulated below.
    Pair

Outdoor	RZQ140C7
Indoor	RZQ140C7
Cooling	4.76kW
Heating	4.82kW

SYMBOLS

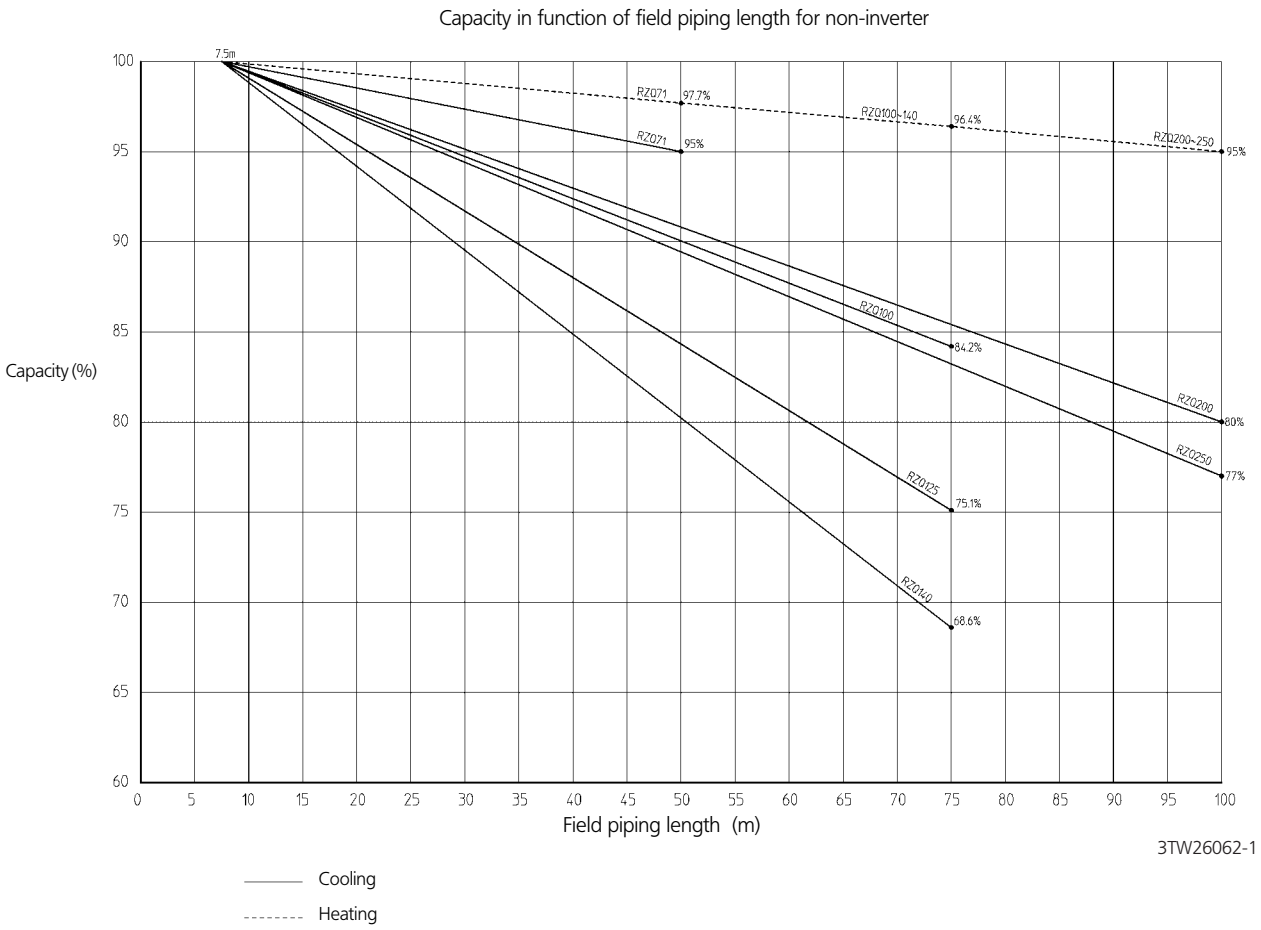
AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ-B/C

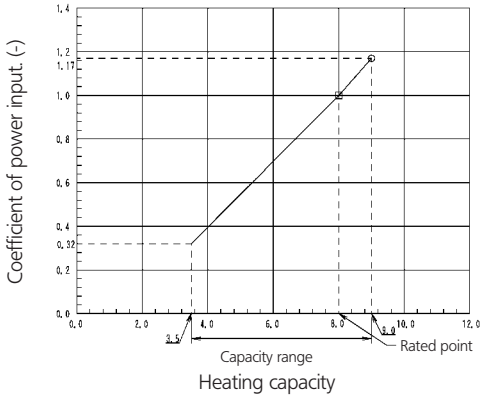


5 Capacity tables

5 - 3 Heating capacity tables

RZQ71C7V1B

Heating



Heating

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	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13
18.0	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18
20.0	5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23
21.0	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25
22.0	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28
24.0	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32

3D059956

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. 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.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. 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 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating performance include the drop of frost formation.
8. Air flow rate and BF are tabulated below.
   Pair

	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FUQ71
AFR (BF)	20 (0.17)	15.5 (0.19)	19 (0.11)	17 (0.10)	19 (0.08)	19 (0.07)

   Multi

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

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

	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FUQ71
Heating	1.97	2.21	2.09	2.67	2.42	2.34

   Multi

	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Heating	2.69	2.64	2.20	2.81

SYMBOLS

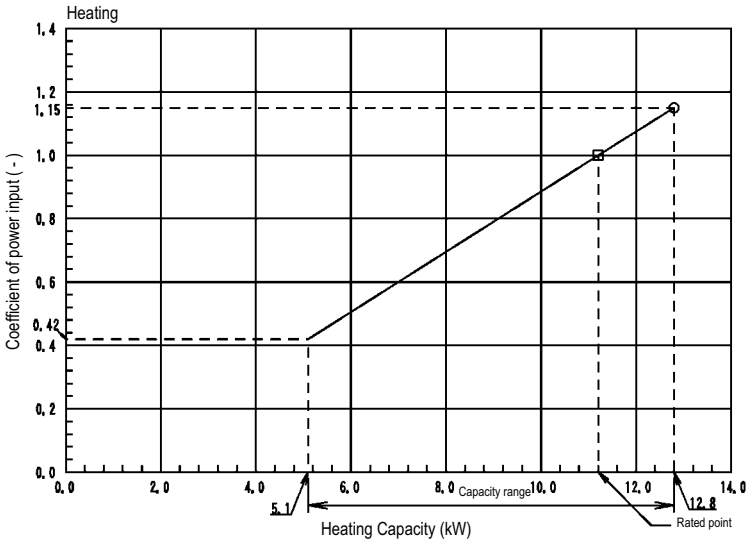
AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQ100C



Heating

Indoor	Outdoor temperature (°C DB)											
EDB	-15		-10		-5		0		6		10	
°C	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

3D059957

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, onces 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 ecxept at standard condition.
3 SHC* is based on each EWB and EDB.
SHC= SHC correction for other dry bulb.
= 0.02xAFR (m^3/min.)x(1-BF)x(DB*-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 acording to indoor unit type.
7 Heating performance include the drop of frost formation.
8 Air flow rate and (BF) are tabulated below.

(Pair)

	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FUQ100
AFR (BF)	32.5 (0.17)	23.5 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)	29 (0.07)

(Triple)

	FCQ35Cx3	FFQ35Bx3	FBQ35x3	FHQ35x3
AFR (BF)	10.5x3 (0.28x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

(Twin)

	FCQ50Cx2	FFQ50x2	FBQ50x2	FBQ50x2
AFR (BF)	12.5x2 (0.21x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

9 Rated power input of each model is tabulated below.

(Pair)

	FCQH100C	FCQ100C	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.66	2.77	3.00	3.30	3.45	3.12
Heating	2.55	3.02	2.99	3.49	3.27	3.37

(Triple)

	FCQ35Cx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.92	2.93	3.16	3.48
Heating	3.18	3.20	3.15	3.67

(Twin)

	FCQ50Cx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.92	2.93	3.16	3.48
Heating	3.18	3.20	3.15	3.67

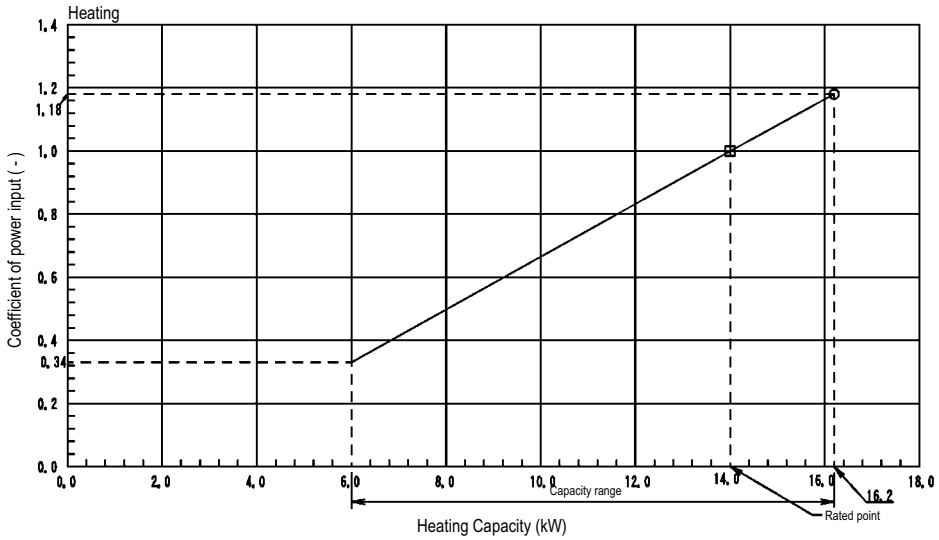
SYMBOLS

AFR	:	Air flow rate	(m3/mim.)
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.	

5 Capacity tables

5 - 3 Heating capacity tables

RZQ125C



Heating

Indoor	Outdoor temperature (°C DB)											
EDB	-15		-10		-5		0		6		10	
°C	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)	TC (kW)	PI (-)
16.0	8.83	0.89	9.76	0.94	10.7	0.99	11.6	1.04	16.2	1.09	17.5	1.14
18.0	8.82	0.93	9.74	0.98	10.7	1.03	11.6	1.08	16.2	1.13	17.5	1.19
20.0	8.81	0.97	9.73	1.02	10.7	1.07	11.6	1.12	16.2	1.18	17.5	1.24
21.0	8.81	0.99	9.73	1.04	10.6	1.09	11.6	1.14	16.2	1.20	17.5	1.26
22.0	8.80	1.00	9.72	1.05	10.6	1.11	11.6	1.16	16.2	1.23	17.5	1.29
24.0	8.79	1.04	9.71	1.10	10.6	1.15	11.5	1.21	16.2	1.27	17.4	1.33

3D059958

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, onces 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.
= 0.02xAFR (m^3/min.)x(1-BF)x(DB*-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 acording to indoor unit type.
7 Heating performance include the drop of frost formation.
8 Air flow rate and (BF) are tabulated below.

(Pair)

	FCQH125C	FCQ125C	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	32.5 (0.19)	27.5 (0.19)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

(Pair)

	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR (BF)	12.5x3 (0.21x3)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.1x3)

(Twin)

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

(Double Twin)

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

9 Rated power input of each model is tabulated below.

(Pair)

	FCQH125C	FCQ125C	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.70	3.88	3.97	4.45	4.15	4.15
Heating	3.57	3.95	3.98	4.36	4.33	3.67

(Triple)

	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.12	4.18	4.45
Heating	4.16	4.25	4.19	4.59

(Twin)

	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.12	4.18	4.45
Heating	4.16	4.25	4.19	4.59

(Double Twin)

	FCQ35Cx4	FCQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.12	4.18	4.45
Heating	4.16	4.25	4.19	4.59

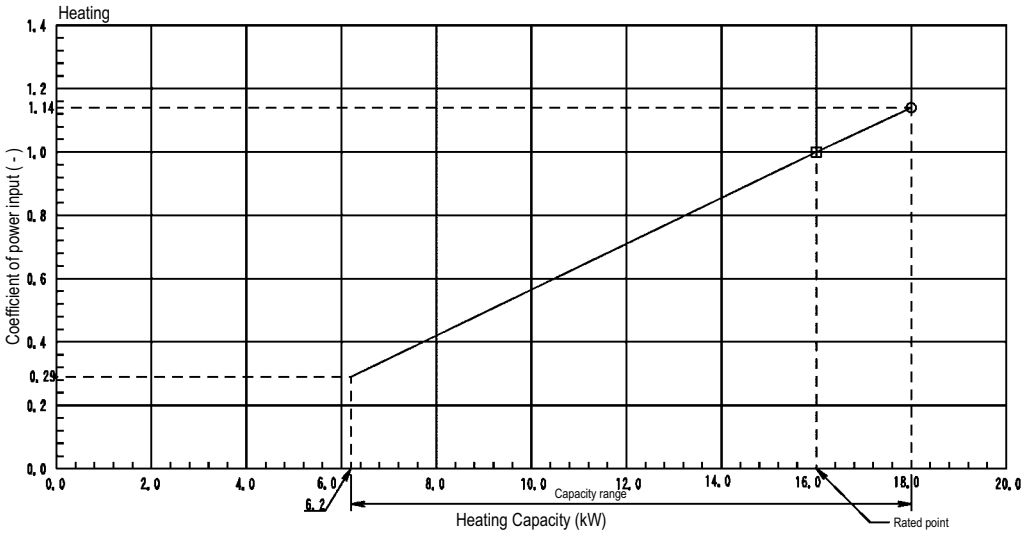
SYMBOLS

AFR	:	Air flow rate	(m3/mim.)
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.	

5 Capacity tables

5 - 3 Heating capacity tables

RZQ140C



Heating

Indoor	Outdoor temperature (°C DB)											
EDB	-15		-10		-5		0		6		10	
°C	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 ◯ show the max, onces 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 ecxept at standard condition.
3 SHC* is based on each EWB and EDB.
SHC= SHC correction for other dry bulb.
= 0.02xAFR (m^3/min.)x(1-BF)x(DB*-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 acording to indoor unit type.
7 Heating performance include the drop of frost formation.
8 Air flow rate and (BF) are tabulated below.

(Pair)

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

(Pair)

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

(Twin)

	FCQ71Cx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
AFR (BF)	15.5x2 (0.19x2)	19x2 (0.11x2)	17x2 (0.1x2)	19x2 (0.07x2)	19x2 (0.08x2)

(Double Twin)

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

9 Rated power input of each model is tabulated below.

(Pair)

	FCQH140C	FCQ140C
Cooling	4.64	5.36
Heating	4.43	4.98

(Triple)

	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.09	4.86	4.95	4.99
Heating	4.98	5.11	5.06	5.69

(Twin)

	FCQ71Cx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
Cooling	5.09	4.95	4.99	4.99	4.92
Heating	4.98	5.06	5.69	5.05	5.22

(Double Twin)

	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	5.09	4.86	4.95	4.99
Heating	4.98	5.11	5.06	5.69

SYMBOLS

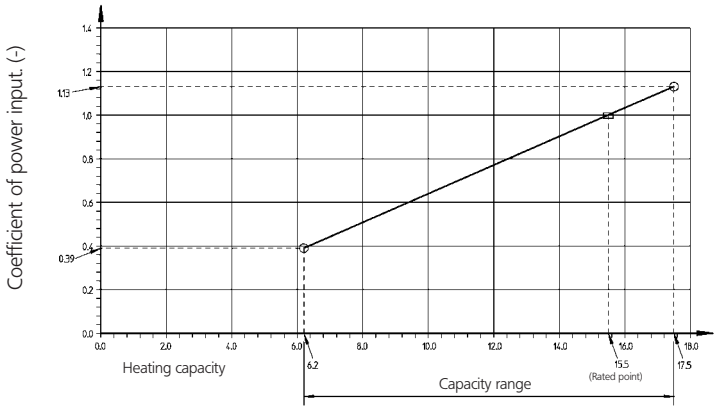
AFR	:	Air flow rate	(m3/mim.)
BF	:	Bypass factor	
EWB	:	Entering wet bulb temp.	(°C DB)
EDB	:	Entering dry bulb temp.	(°C DB)
TC	:	Total cooling (heating) capacity	(kW)
SHC	:	Sensible heat capacity	(kW)
PI	:	Power input (Comp.+indoor+outdoor fan motor).	(kW)
CPI	:	Coefficient of power input	(-)
Caution	:	TC and SHC are shown by kW.	

5 Capacity tables

5 - 3 Heating capacity tables

RZQ140C (Pair)

Heating



Heating capacity **400V [50Hz]**

Indoor	Outdoor temp. (°CWB)											
EDB	–15		–10		–5		0		6		10	
(°C)	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

1. This capacity table is only valid for pair combination with FBQ140
2. Ratings shown are net capacities which include a deduction for indoor fan motor heat
3. 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.
4. On the tables ▭ show rated capacity and rated coefficient of power input.
5. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
6. 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
7. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
8. The value contains less than 5% error acording to indoor unit type.
9. Heating capacity include the drop of frost formation.
10. Air flow rate and BF are tabulated below.
    Pair

Model	FBQ140
AFR (BF)	35 (0.14)

11. 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 (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

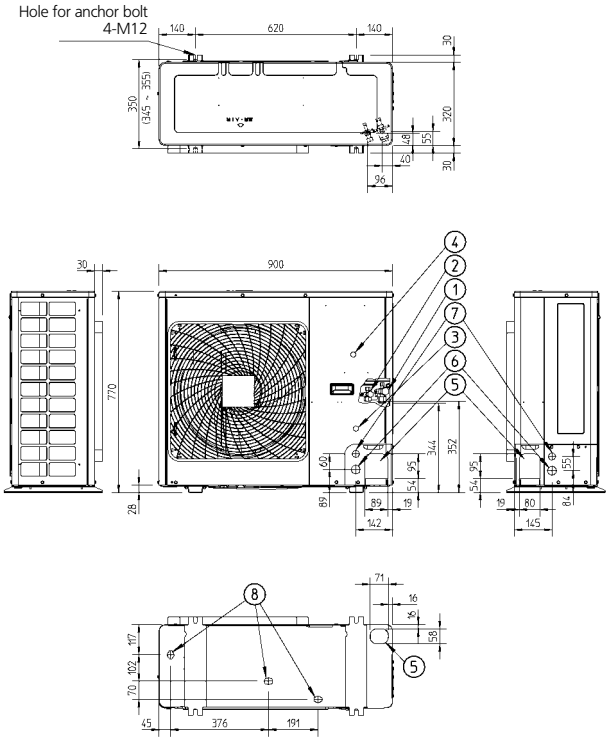
Caution:
TC and SHC are shown by kW

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

RZQ-C

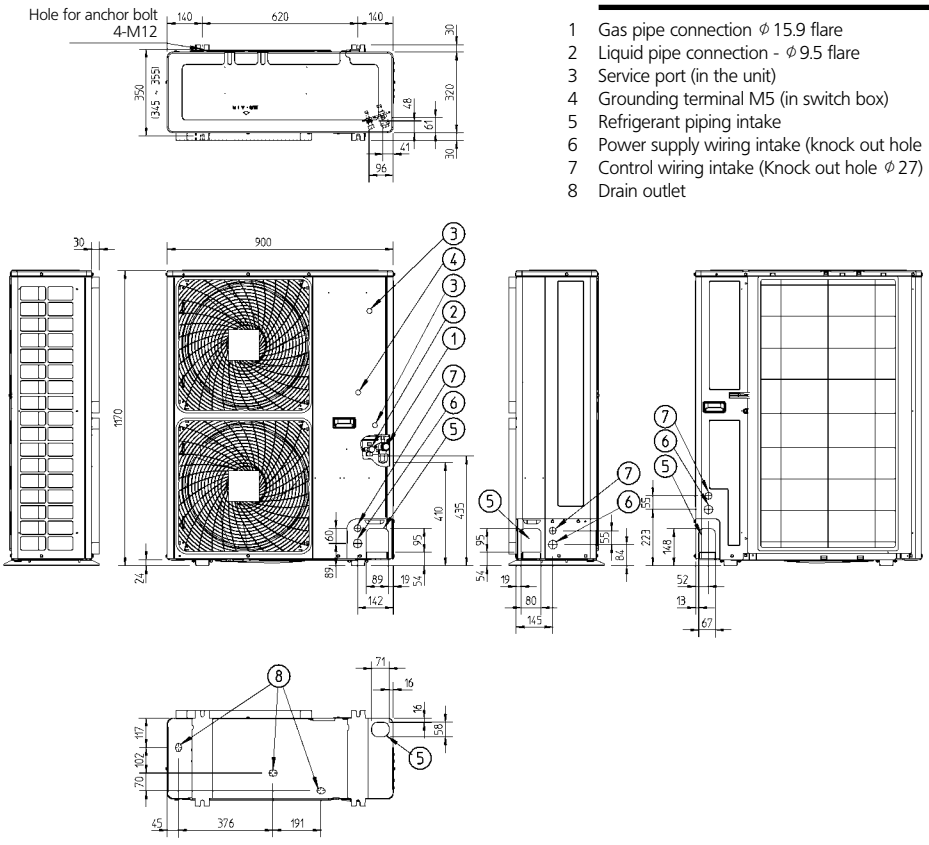
unit (mm)



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 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 ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3TW25144-1A

RZQ100-125-140C



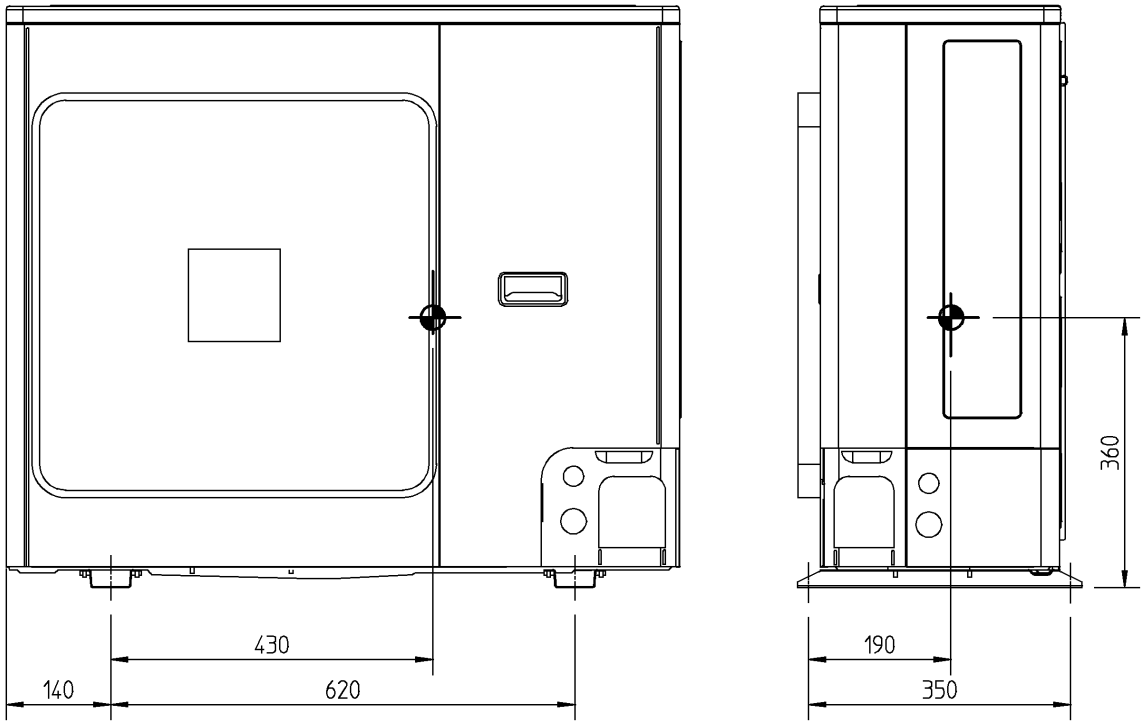
1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3TW26364-1

6 Dimensional drawing & centre of gravity

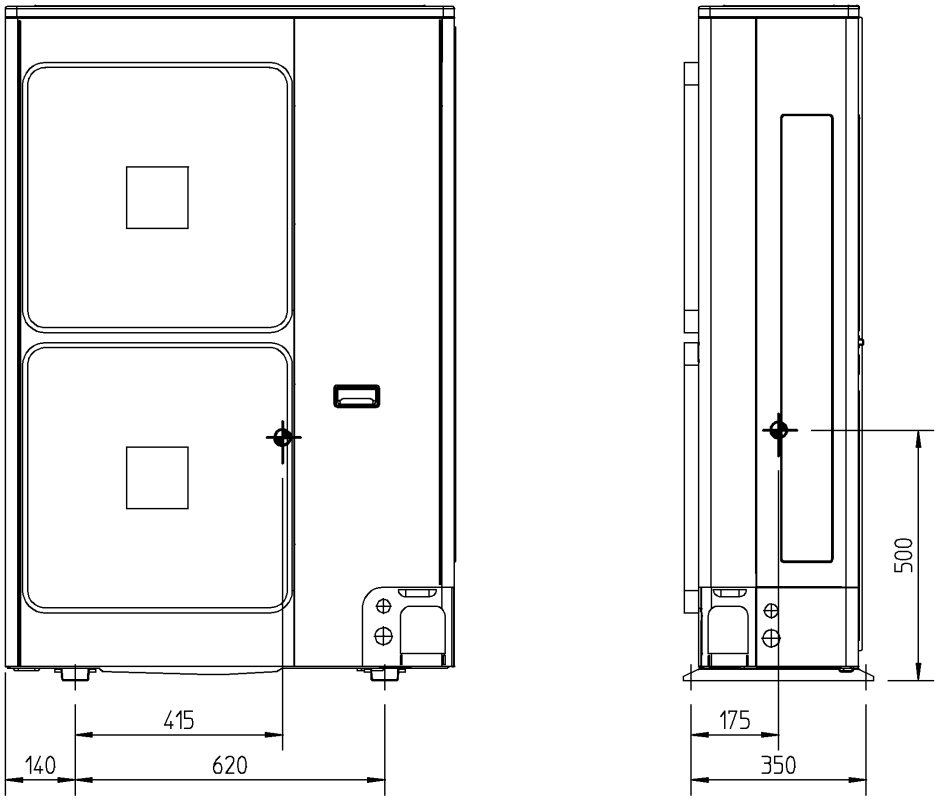
6 - 2 Centre of gravity

RZQ71C7V1B



4TW30469-3

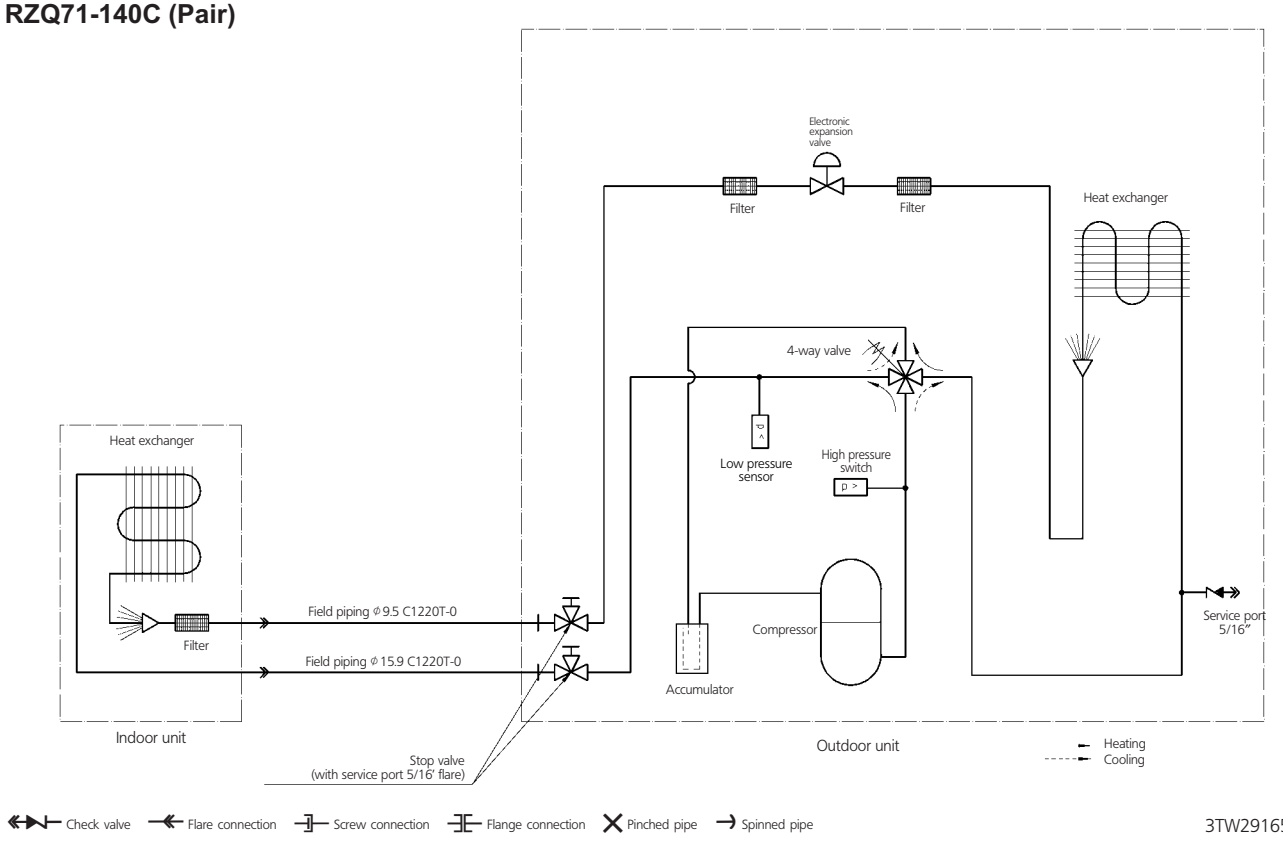
RZQ100-125-140C



4TW29169-4

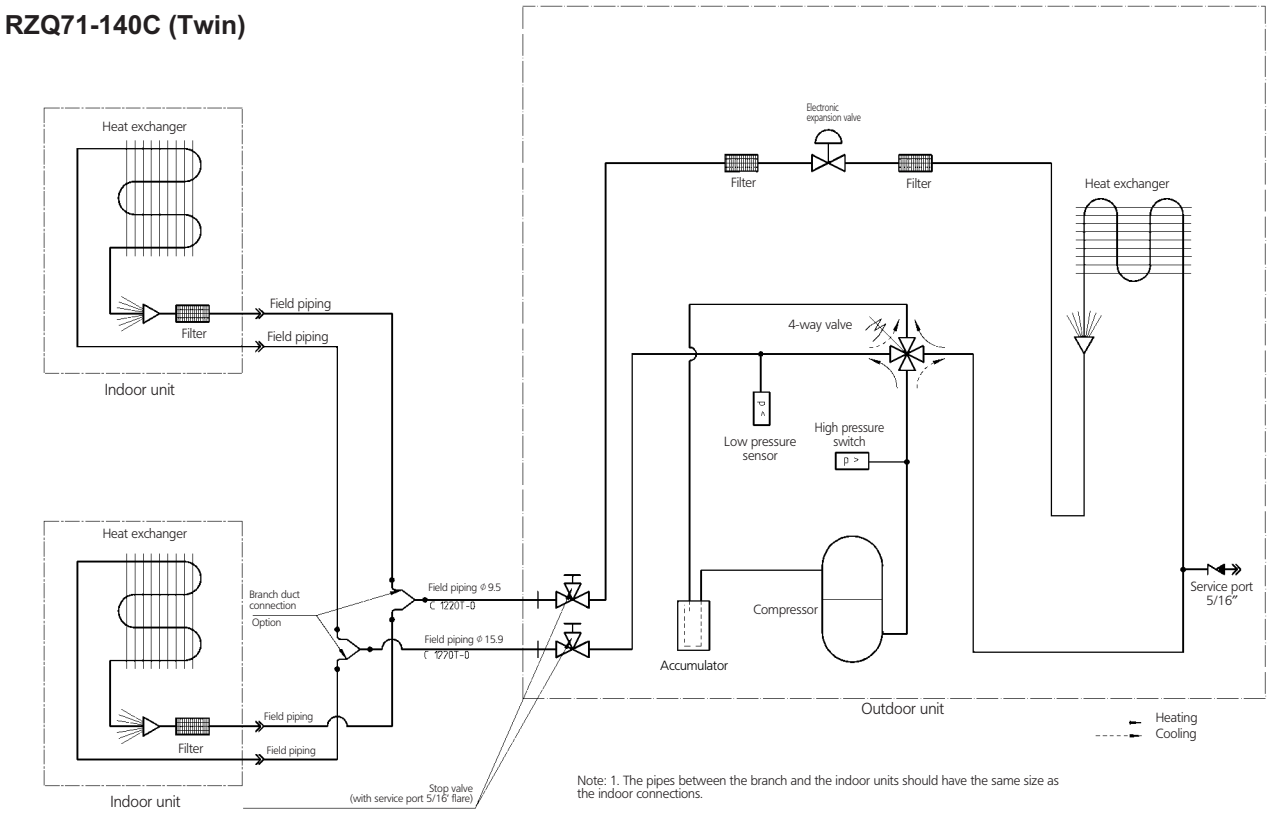
7 Piping diagram

RZQ71-140C (Pair)



3TW29165-1

RZQ71-140C (Twin)

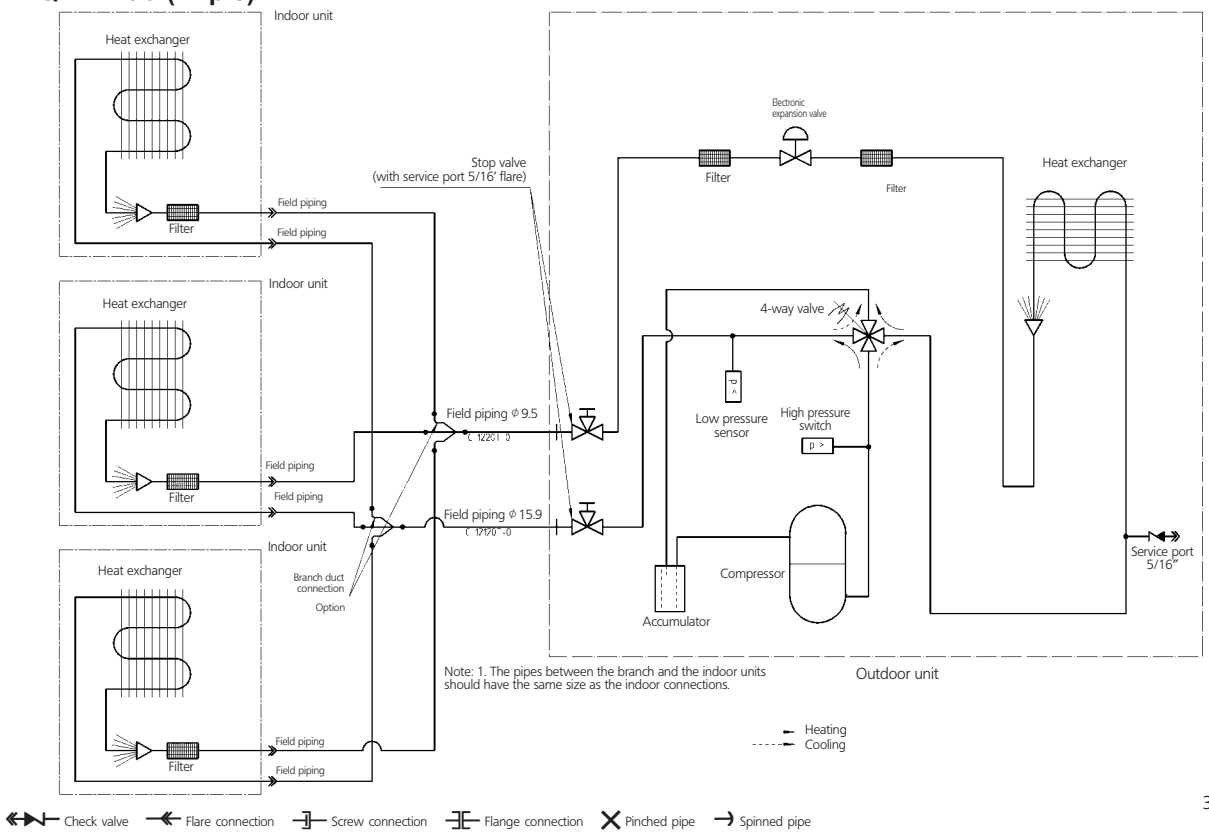


Note: 1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

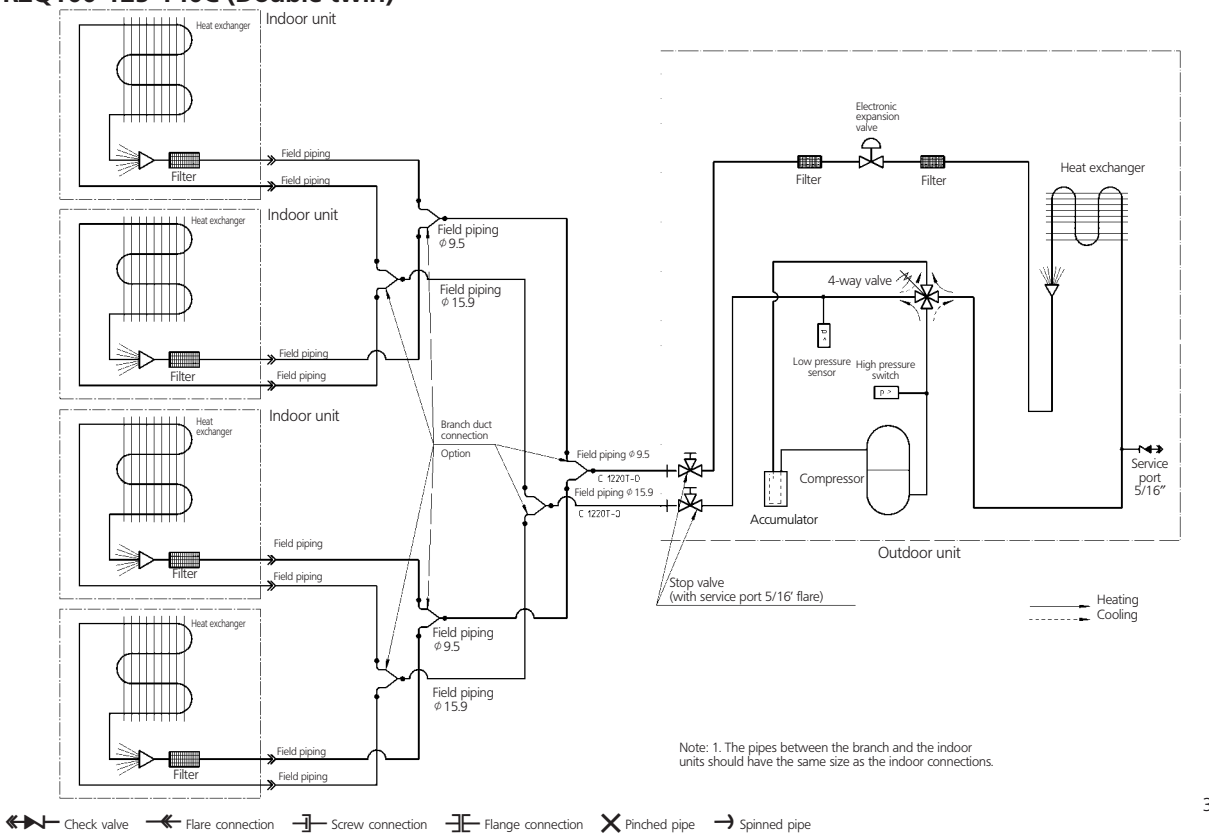
3TW29165-2

7 Piping diagram

RZQ71-140C (Triple)



RZQ100-125-140C (Double twin)

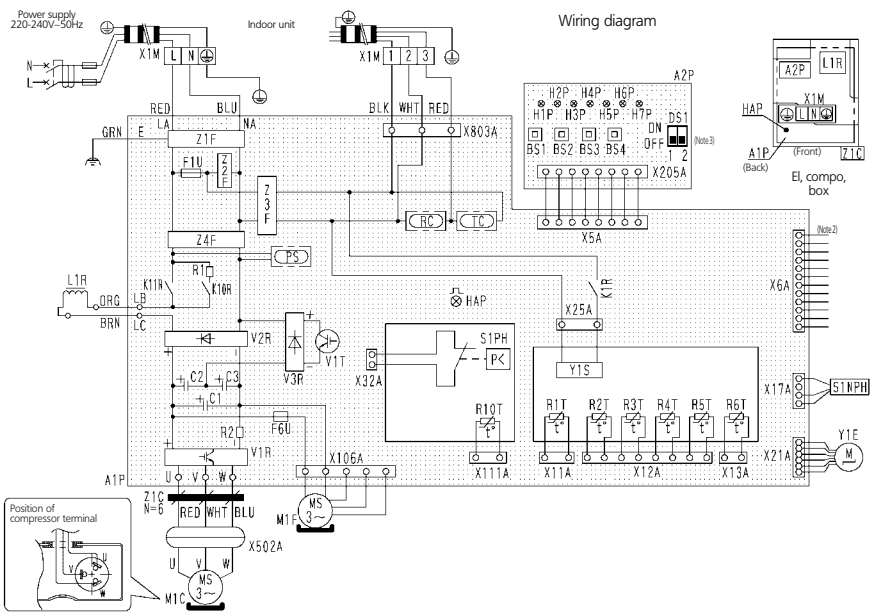


8 Wiring diagram

8 - 1 Wiring diagram

RZQ71C7V1B

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 3.15/250V)
H1P–7P(A2P)	: 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 (ferrite core)
Z1F–4F	: Noise filter

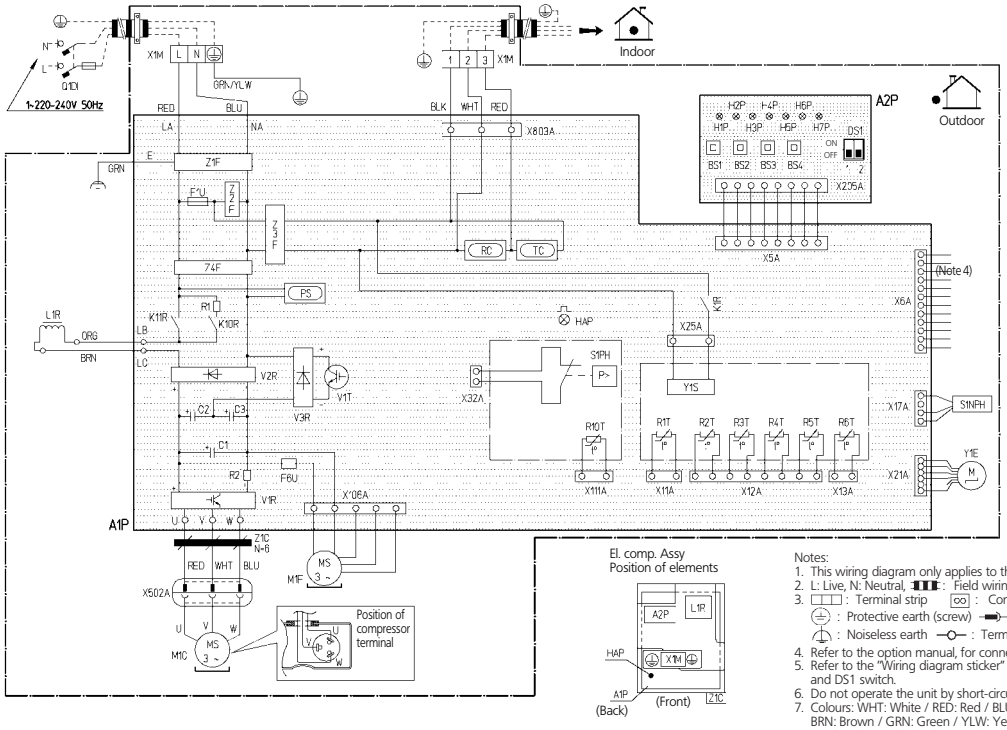


Notes:

1. : Field wiring : Terminal block Connector
: Relay connector : Terminal
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

RZQ71C



A1P	: Printed circuit board (Main)
A2P	: Printed circuit board (Inverter)
BS1–BS4	: Push button switch
C1–C3	: 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	: Switching power supply
Q1DI	: 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 (ferrite core)
Z1F–Z4F	: Noise filter

Notes:

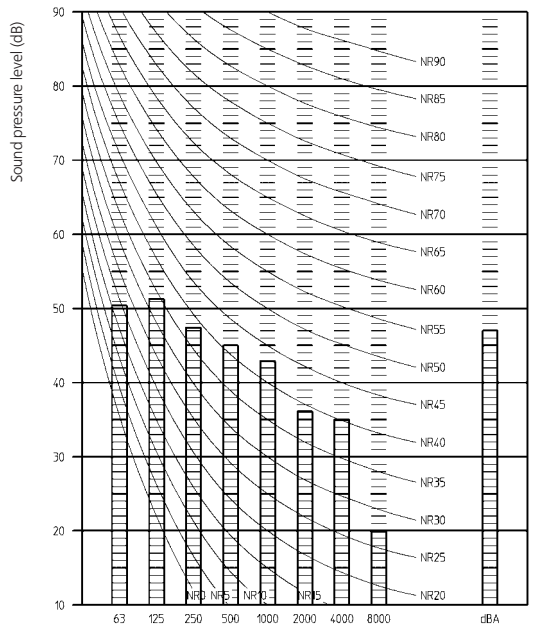
1. This wiring diagram only applies to the outdoor unit
2. L: Live, N: Neutral, : Field wiring
3. : Terminal strip : Connector : Connection
: Protective earth (screw) : Relay connector
: Noiseless earth : Terminal
4. Refer to the option manual, for connecting wiring to x6A.
5. Refer to the "Wiring diagram 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

RZQ71C7V1B - Cooling

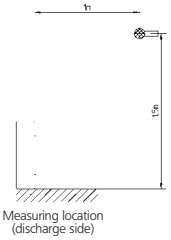


3TW30487-1

Octave band center frequency (Hz)

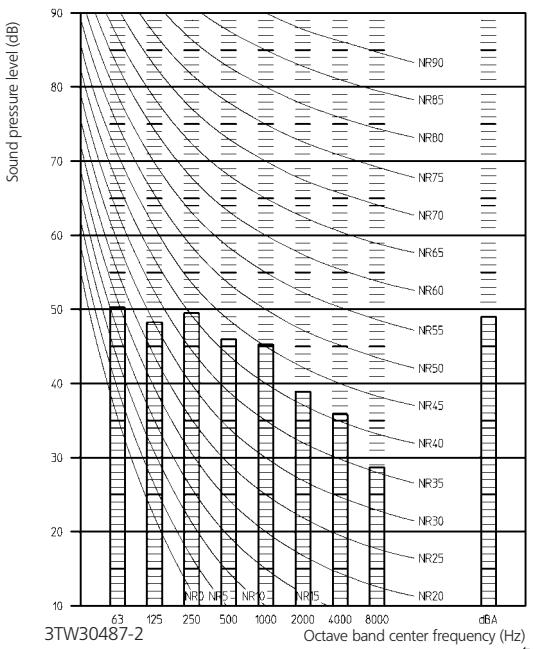
NOTES

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



Measuring location (discharge side)

RZQ71C7V1B - Heating

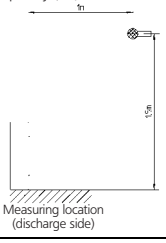


3TW30487-2

Octave band center frequency (Hz)

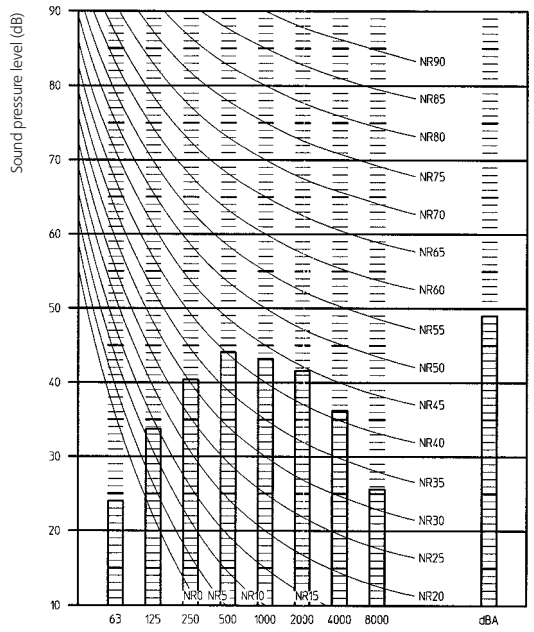
NOTES

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



Measuring location (discharge side)

RZQ100CV1 - Cooling

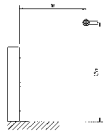


3TW29167-1

Octave band center frequency (Hz)

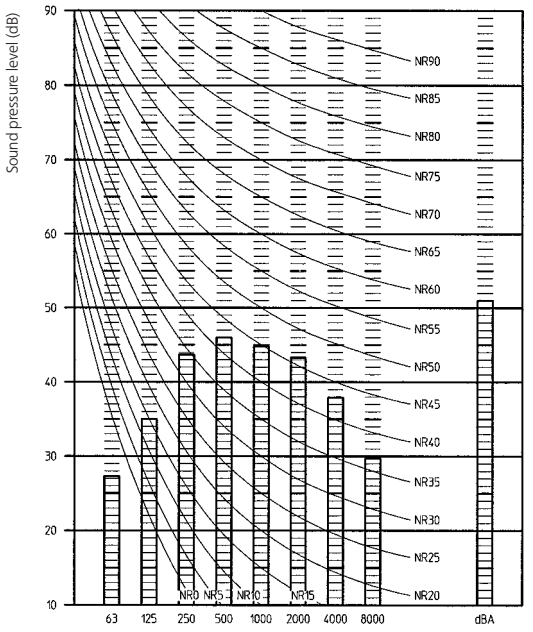
NOTES

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



Measuring location (discharge side)

RZQ100CV1 - Heating



3TW29187-2

Octave band center frequency (Hz)

NOTES

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

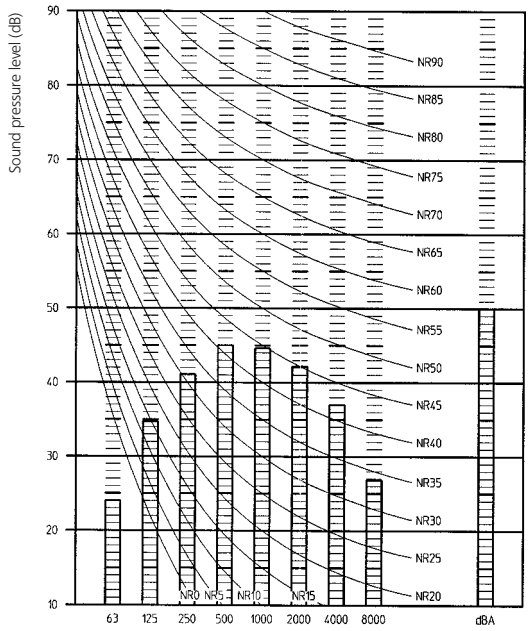


Measuring location (discharge side)

9 Sound data

9 - 1 Sound pressure spectrum

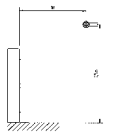
RZQ125CV1 - Cooling



3TW29197-1

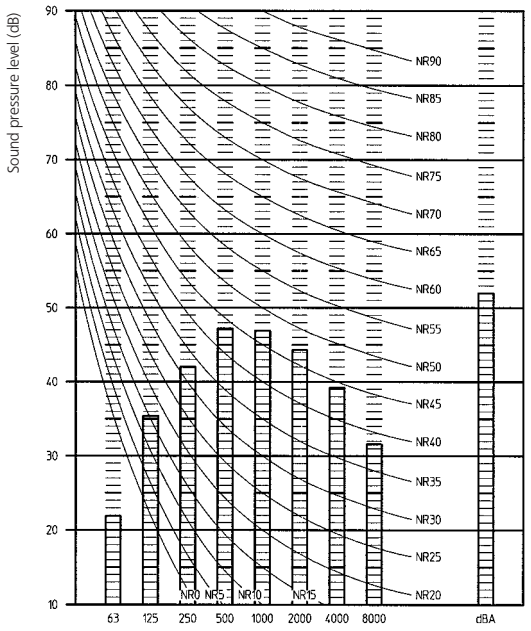
NOTES

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



Measuring location (discharge side)

RZQ125CV1 - Heating



3TW29197-2

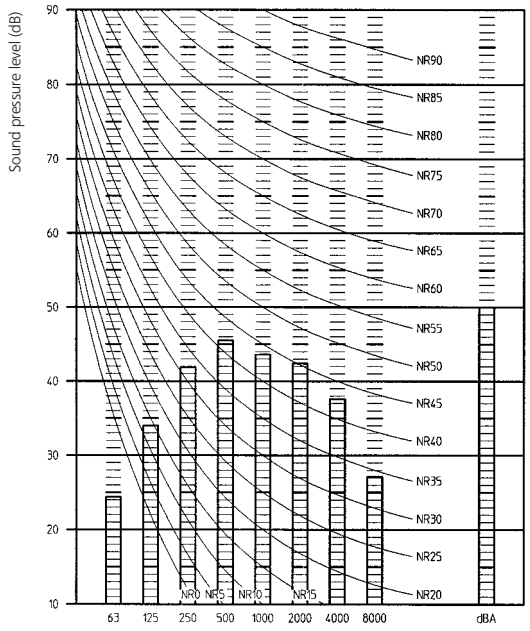
NOTES

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



Measuring location (discharge side)

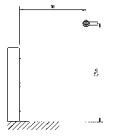
RZQ140CV1 - Cooling



3TW29207-1

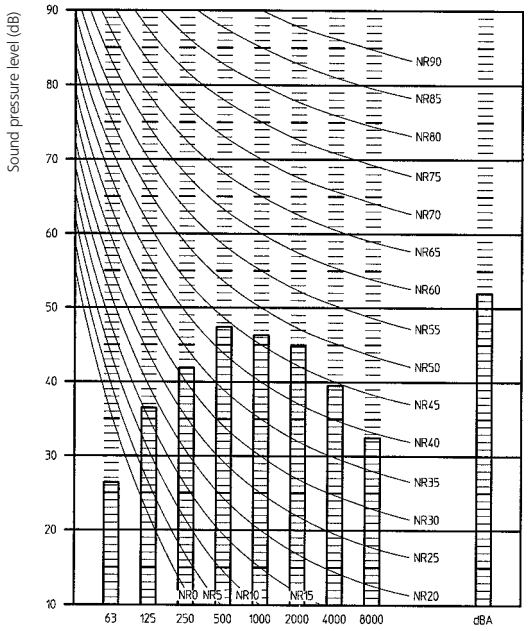
NOTES

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



Measuring location (discharge side)

RZQ140CV1 - Heating



3TW29207-2

NOTES

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

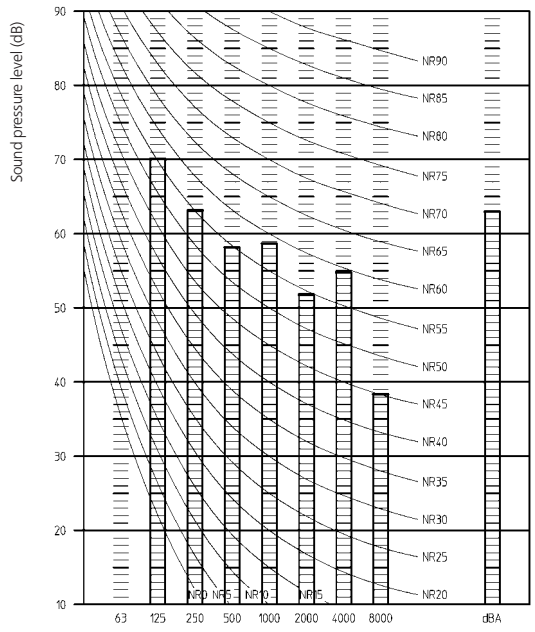


Measuring location (discharge side)

9 Sound data

9 - 2 Sound power spectrum

RZQ71C7V1B



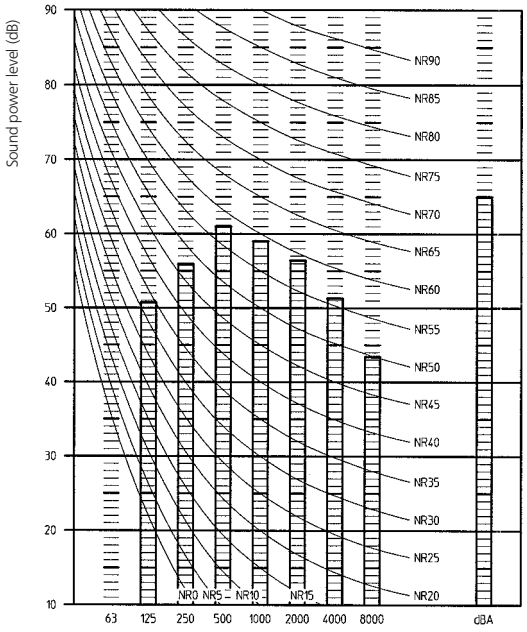
3TW30487-3

Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound power level (A-scale according to IEC)
2 Reference acoustic intensity 0dB=10E-6μW/m²
3 Measured according ISO3744

RZQ100CV1



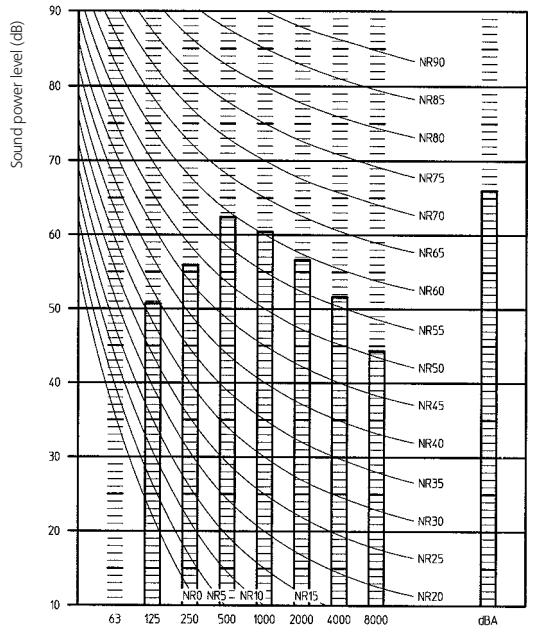
3TW29187-3

Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

RZQ125CV1



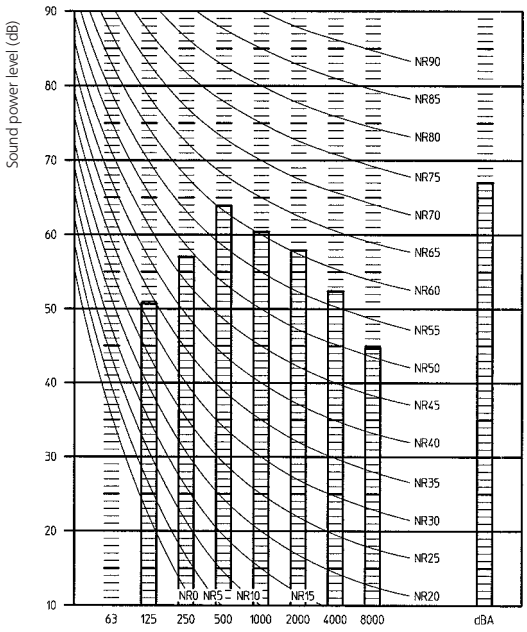
3TW29197-3

Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

RZQ140CV1



3TW29207-3

Octave band center frequency (Hz)

NOTES

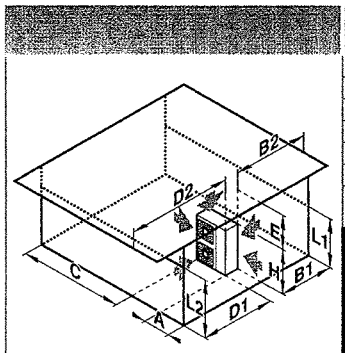
1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

10 Installation

10 - 1 Installation method

RZQ71-140C

A. Non stacked installation



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

Legend

- 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.

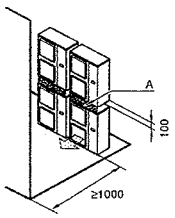
In these cases, only 2 units can be installed.

This situation is not allowed.

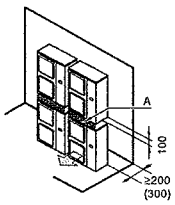
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



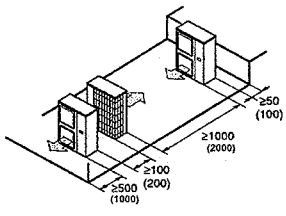
2. Obstacles exist in front of the air inlet



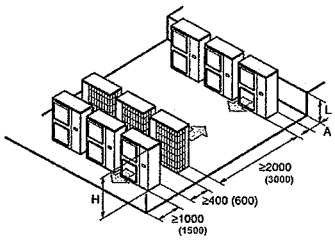
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

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.

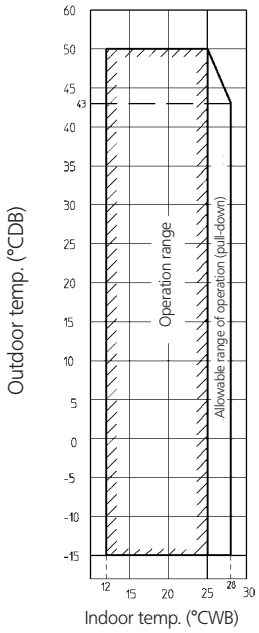
	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

3TW26739-4

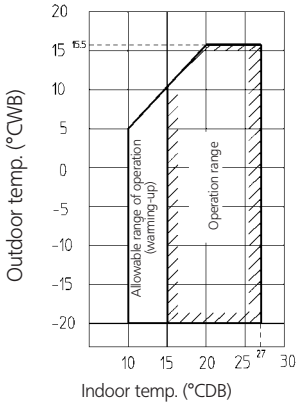
11 Operation range

RZQ71-140CV1B

Cooling



Heating



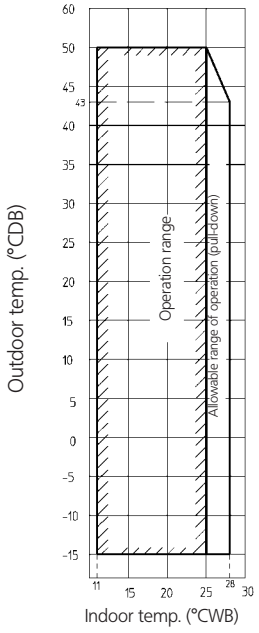
Notes:

- 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.

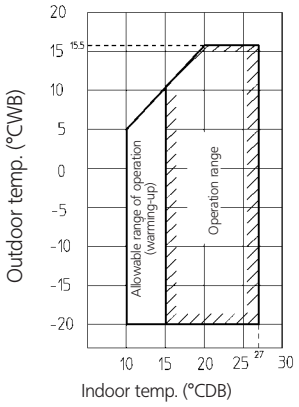
3TW26733-1A

RZQ71-140C7V1B (EDP ROOM)

Cooling



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.

3TW29163-2

1

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 intension 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.

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.

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

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

Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BTW: BE 0412 120 336
RPR Oostende

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