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				RZQS71B7V3B	RZQS100B7V3B	RZQS125B7V3B
For combination indoor units + outdoor units	Indoor Units			FCQ71B7V3B	FCQ100B7V3B	FCQ125B7V3B
Nominal Capacity	Cooling capacity	Standard	kW	7.10	10.00	12.50
	Heating capacity	Standard	kW	8.00	11.20	14.00
Nominal input	Cooling	Standard	kW	2.46	3.83	4.14
	Heating	Standard	kW	2.61	3.47	4.52
For combination indoor units + outdoor units	EER	Nominal		2.89	2.61	3.02
	COP	Nominal		3.07	3.23	3.10
	Energy Labeling Directive	Cooling		C	D	B
		Heating		D	C	D
	Annual energy consumption		kWh	1230	1915	2070
	Indoor Units			FBQ71B7V3B	FBQ100B7V3B	FBQ125B7V3B
Nominal Capacity	Cooling capacity	Standard	kW	7.10	10.00	12.50
	Heating capacity	Standard	kW	8.00	11.20	14.00
Nominal input	Cooling	Standard	kW	2.52	3.83	4.40
	Heating	Standard	kW	2.40	3.47	4.24
For combination indoor units + outdoor units	EER	Nominal		2.82	2.61	2.84
	COP	Nominal		3.33	3.23	3.30
	Energy Labeling Directive	Cooling		C	D	C
		Heating		C		
	Annual energy consumption		kWh	1260	1915	2200
	Indoor Units			FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
Nominal Capacity	Cooling capacity	Standard	kW	7.10	10.00	12.50
	Heating capacity	Standard	kW	8.00	11.20	14.00
Nominal input	Cooling	Standard	kW	2.53	4.15	4.58
	Heating	Standard	kW	2.84	3.99	4.96
For combination indoor units + outdoor units	EER	Nominal		2.81	2.41	2.73
	COP	Nominal		2.82	2.81	2.82
	Energy Labeling Directive	Cooling		C	E	D
		Heating		D		
	Annual energy consumption		kWh	1265	2075	2290
	Indoor Units			FAQ71BUV1B	FAQ100BUV1B	FDQ125B7V3B
Nominal Capacity	Cooling capacity	Standard	kW	7.10	10.00	12.50
	Heating capacity	Standard	kW	8.00	11.20	14.00
Nominal input	Cooling	Standard	kW	2.53	4.08	4.45
	Heating	Standard	kW	2.61	3.73	4.08
For combination indoor units + outdoor units	EER	Nominal		2.81	2.45	2.81
	COP	Nominal		3.01	3.00	3.43
	Energy Labeling Directive	Cooling		C	E	C
		Heating		D	D	B
	Annual energy consumption		kWh	1265	2040	2225

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RZQS71B7V3B	RZQS100B7V3B	RZQS125B7V3B
Casing	Colour			Ivory White		
	Material			Painted galvanised steel		
Dimensions	Unit	Height	mm	770	770	1345
		Width	mm	900	900	900
		Depth	mm	320	320	320
	Packing	Height	mm	900	900	1475
		Width	mm	980	980	980
		Depth	mm	420	420	420
Weight	Unit		kg	68	68	106
	Packed Unit		kg	72	72	111
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		3	3	5
		Face Area	m^2	0.641	0.641	1.131
		Nr of Stages		34	34	60
	Tube type			Hi-XSS(8)		
	Fin	Type		WF fin		
		Treatment		Anti-corrosion treatment (PE)		
Fan	Type			Propeller		
	Discharge direction			Horizontal		
	Quantity			1	1	2
	Air Flow Rate (nominal at 230V)	Cooling	m^3/min	54.5	61.3	99.0
		Heating	m^3/min	48.1	61.7	100.0
	Motor	Quantity		1	1	2
		Model		KFD-325-70-8A		
Motor	Speed (nominal)	Steps		8	8	8
		Cooling	rpm	818	920	782
		Heating	rpm	715	920	767
Fan	Motor	Output	W	70	70	70
Compressor	Quantity			1	1	1
	Motor	Model		2YC63BXD	2YC63BXD	JT100G-VD
		Type		Hermetically sealed swing compressor	Hermetically sealed swing compressor	Hermetically sealed scroll compressor
		Motor Output	W	1800	1800	2200
		Crankcase Heater	W			33
Operation Range	Cooling	Min	°CDB	-5.0	-5.0	-5.0
		Max	°CDB	46.0	46.0	46.0
	Heating	Min	°CWB	-15.0	-15.0	-15.0
		Max	°CWB	15.5	15.5	15.5
Sound Level (nominal)	Cooling	Sound Power	dBA	65.0	67.0	67.0
		Sound Pressure	dBA	49.0	51.0	51.0
	Heating	Sound Pressure	dBA	51.0	55.0	53.0
Sound Level (Night quiet)	Sound Pressure		dBA	43.0	45.0	45.0
Refrigerant	Type			R-410A		
	Charge		kg	2.80	2.80	4.3
	Control			Expansion valve (electronic type)		
	Nr of Circuits			1	1	1
Refrigerant Oil	Type			Daphne FVC50K	Daphne FVC50K	Daphne FVC68D
	Charged Volume		l	0.8	0.8	1.0

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RZQS71B7V3B	RZQS100B7V3B	RZQS125B7V3B
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	30	50	50
		Equivalent	m	40	70	70
		Chargeless	m	30	30	30
	Additional Refrigerant Charge		kg/m	see installation manual 4PW32097-1		
	Installation height difference	Maximum	m	15	30	30
	Max. interunit 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		
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB		

2 Specifications

2-3 ELECTRICAL SPECIFICATIONS				RZQS71B7V3B	RZQS100B7V3B	RZQS125B7V3B
Power Supply	Name			V3		
	Phase			1	1	1
	Frequency		Hz	50	50	50
	Voltage		V	230	230	230
	Voltage range	Minimum	V	-10%		
		Maximum	V	+10%		
Current	Recomended fuses		A	20	20	32
Wiring connections	For Power Supply	Remark		see installation manual 4PW32097-1		
	For connection with indoor	Remark		see installation manual 4PW32097-1		
Power Supply Intake				Outdoor unit only		
Notes				See separate drawings for electrical data		
						Power supply to the FDQ indoor unit is separate

3 Electrical data

RZQ71-125BV3

Unit combination		Power supply					Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ71BV3	RZQS71BV3	50-230	Max. 50Hz253V Min. 50Hz207V	17.1	17.1	20	16.2	16.2	0.07	0.3	0.045	0.6
FCQ35BV3x2	RZQS71BV3	50-230		17.7	17.7	20	16.2	16.2	0.07	0.3	0.045x2	0.6x2
FFQ35BV3x2	RZQS71BV3	50-230		17.7	17.7	20	16.2	16.2	0.07	0.3	0.055x2	0.6x2
FBQ71BV3	RZQS71BV3	50-230		17.4	17.4	20	16.2	16.2	0.07	0.3	0.125	0.9
FBQ35BV3x2	RZQS71BV3	50-230		17.5	17.5	20	16.2	16.2	0.07	0.3	0.065x2	0.5x2
FHQ71BV3	RZQS71BV3	50-230		17.1	17.1	20	16.2	16.2	0.07	0.3	0.062	0.6
FHQ35BV3x2	RZQS71BV3	50-230		17.7	17.7	20	16.2	16.2	0.07	0.3	0.062x2	0.6x2
FAQ71BV3	RZQS71BV3	50-230		16.8	16.8	20	16.2	16.2	0.07	0.3	0.043	0.3
FCQ100BV3	RZQS100BV3	50-230	Max. 50Hz253V Min. 50Hz207V	19.0	19.0	20	17.7	17.7	0.07	0.3	0.090	1.0
FCQ50BV3x2	RZQS100BV3	50-230		19.2	19.2	20	17.7	17.7	0.07	0.3	0.045x2	0.6x2
FCQ35BV3x3	RZQS100BV3	50-230		19.8	19.8	20	17.7	17.7	0.07	0.3	0.045x3	0.6x3
FFQ50BV3x2	RZQS100BV3	50-230		19.4	19.4	20	17.7	17.7	0.07	0.3	0.055x2	0.7x2
FFQ35BV3x3	RZQS100BV3	50-230		19.8	19.8	20	17.7	17.7	0.07	0.3	0.055x3	0.6x3
FBQ100BV3	RZQS100BV3	50-230		19.0	19.0	20	17.7	17.7	0.07	0.3	0.135	1.0
FBQ50BV3x2	RZQS100BV3	50-230		19.4	19.4	20	17.7	17.7	0.07	0.3	0.085x2	0.7x2
FBQ35BV3x3	RZQS100BV3	50-230		19.5	19.5	20	17.7	17.7	0.07	0.3	0.065x3	0.5x3
FHQ100BV3	RZQS100BV3	50-230		18.7	18.7	20	17.7	17.7	0.07	0.3	0.130	0.7
FHQ50BV3x2	RZQS100BV3	50-230		19.2	19.2	20	17.7	17.7	0.07	0.3	0.062x2	0.6x2
FHQ35BV3x3	RZQS100BV3	50-230		19.8	19.8	20	17.7	17.7	0.07	0.3	0.062x3	0.6x3
FAQ100BV3	RZQS100BV3	50-230		18.4	18.4	20	17.7	17.7	0.07	0.3	0.049	0.4
FCQ125BV3	RZQS125BV3	50-230	Max. 50Hz253V Min. 50Hz207V	25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.0
FCQ60BV3x2	RZQS125BV3	50-230		25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x2	0.6x2
FCQ50BV3x3	RZQS125BV3	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x3	0.6x3
FCQ35BV3x4	RZQS125BV3	50-230		26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x4	0.6x4
FFQ60BV3x2	RZQS125BV3	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ50BV3x3	RZQS125BV3	50-230		26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3
FFQ35BV3x4	RZQS125BV3	50-230		26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4
FBQ125BV3	RZQS125BV3	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.225	1.4
FBQ60BV3x2	RZQS125BV3	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.125x2	0.9x2
FBQ50BV3x3	RZQS125BV3	50-230		26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.085x3	0.7x3
FBQ35BV3x4	RZQS125BV3	50-230		26.0	26.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.065x4	0.5x4
FHQ125BV3	RZQS125BV3	50-230		24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ60BV3x2	RZQS125BV3	50-230		25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ50BV3x3	RZQS125BV3	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FHQ35BV3x4	RZQS125BV3	50-230		26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4
FDQ125BV3	RZQS125BV3	50-230		28.2	28.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.500	4.2

3D055645

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

Available option for RZQS71-125BV3

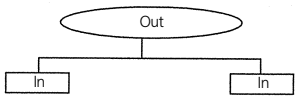
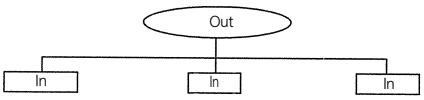
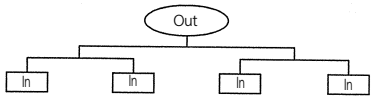
Name of option		Kit name		
		RZQS71B7V3B	RZQS100B7V3B	RZQS125B7V3B
Central drain plug		KKPJ5F180		
Refrigerant branch piping	Twin	KHRQ22M20TA		
	Triple	-	KHRQ127H	
	Double twin	-	-	KHRQ22M20TA (3x)
Demand adapter kit		KRP58M51		

3TW26739-1C

5 Capacity tables

5 - 1 Combination table

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

	Possible indoor combination		
	Simultaneous operation		
Outdoor models	Twin	Triple	Double twin
			
RZQS71BV3	35-35 (KHRQ22M20TA7)		
RZQS100BV3	50-50 (KHRQ22M20TA7)	35-35-35 (KHRQ127H7)	
RZQS125BV3	60-60 (KHRQ22M20TA7)	50-50-50 (KHRQ127H7)	35-35-35-35 (3x KHRQ22M20TA7)

3TW29069-1

NOTES

1 Possible indoor units: FCQ35-125B, FFQ35-60BV, FHQ35-125B, FBQ35-125B, FAQ71-100B, FDQ125B

2 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).

3 When different indoor models are used in combination, designate the infrared remote controller that is equipped with the most functions as the main unit.
In note 1 are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).

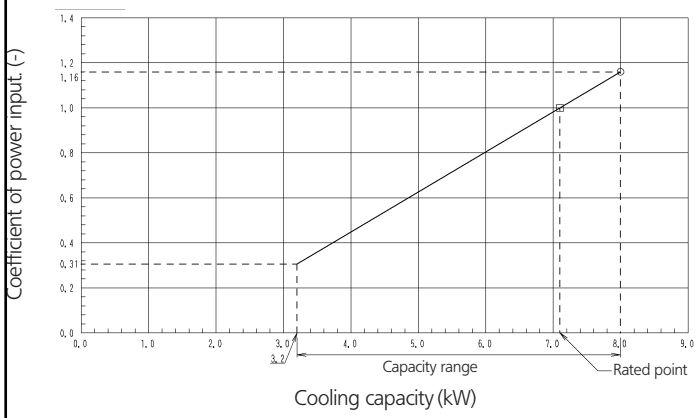
4 Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS71BV3

Cooling



Cooling capacity **230V [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	6.47	4.39	0.76	6.46	4.43	0.89	6.66	4.62	0.99	6.39	4.49	1.09
18.0	25	7.43	4.82	0.83	7.20	4.72	0.91	6.95	4.61	1.00	6.67	4.47	1.10
19.0	27	7.58	4.80	0.84	7.35	4.71	0.91	7.10	4.60	1.00	6.82	4.46	1.10
19.5	27	7.66	4.79	0.84	7.43	4.70	0.91	7.17	4.59	1.00	6.89	4.46	1.10
22.0	30	8.05	4.73	0.85	7.81	4.64	0.92	7.55	4.54	1.01	7.26	4.41	1.11
24.0	32	8.37	4.66	0.85	8.12	4.58	0.93	7.85	4.48	1.02	7.55	4.35	1.12

3D055646

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. On the tables ▭ show rated capacity and rated coefficient of power input.
4. 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.
5. 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
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.
   (Pair)

Model	FCQ71B	FBQ71B	FHQ71B	FAQ71B
AFR (BF)	18 (0.10)	19 (0.11)	17 (0.10)	19 (0.08)

10. Rated power input of each model is tabulated below.
    (Pair)

Model	FCQ71B	FBQ71B	FHQ71B	FAQ71B
Cooling	2.46	2.52	2.53	2.53
Heating	2.61	2.40	2.85	2.61

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

(Multi)

Model	FCQ35Bx2	FFQ35Bx2	FBQ35Bx2	FHQ35Bx2
AFR (BF)	14x2 (0.16x2)	10x2 (0.25x2)	11.5x2 (0.15x2)	13x2 (0.2x2)

(Multi)

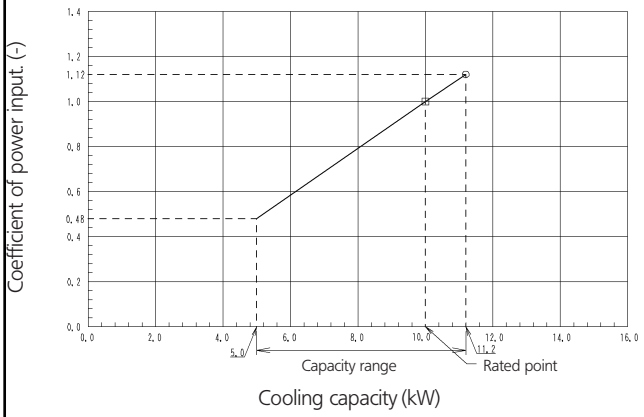
Model	FCQ35Bx2	FFQ35Bx2	FBQ35Bx2	FHQ35Bx2
Cooling	2.59	2.61	2.57	2.66
Heating	2.75	2.70	2.47	2.85

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS100BV3

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	9.12	6.19	0.76	9.10	6.25	0.89	9.38	6.51	0.99	9.00	6.32	1.09
18.0	25	10.5	6.78	0.83	10.1	6.65	0.91	9.79	6.49	1.00	9.40	6.30	1.10
19.0	27	10.7	6.76	0.84	10.4	6.63	0.91	10.0	6.48	1.00	9.60	6.29	1.10
19.5	27	10.8	6.75	0.84	10.5	6.62	0.91	10.1	6.47	1.00	9.71	6.28	1.10
22.0	30	11.3	6.66	0.85	11.0	6.54	0.92	10.6	6.39	1.01	10.2	6.21	1.11
24.0	32	11.8	6.57	0.85	11.4	6.45	0.93	11.1	6.30	1.02	10.6	6.13	1.12

3D055647

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. On the tables ▭ show rated capacity and rated coefficient of power input.
4. 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.
5. 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
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQ100B	FBQ100B	FHQ100B	FAQ100B
AFR (BF)	28 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)

(Triple)

Model	FCQ50Bx2	FFQ50Bx2	FBQ50Bx2	FHQ50Bx2
AFR (BF)	14x3 (0.16x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

(Twin)

Model	FCQ35Bx3	FFQ35Bx3	FBQ35Bx3	FHQ35Bx3
AFR (BF)	15x2 (0.16x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

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

(Pair)

Model	FCQ100B	FBQ100B	FHQ100B	FAQ100B
Cooling	3.83	3.83	4.15	4.08
Heating	3.47	3.47	3.99	3.73

(Triple)

Model	FCQ35Bx3	FFQ35Bx3	FBQ35Bx3	FHQ35Bx3
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

(Twin)

Model	FCQ50Bx2	FFQ50Bx2	FBQ50Bx2	FHQ50Bx2
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

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.	(-)

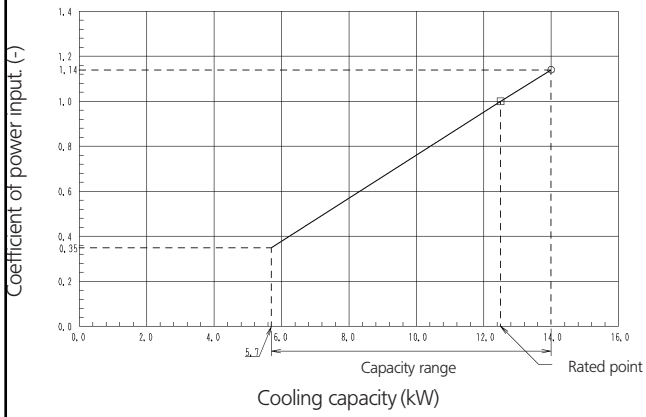
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS125BV3

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	11.4	7.73	0.76	11.4	7.81	0.89	11.7	8.14	0.99	11.3	7.90	1.09
18.0	25	13.1	8.48	0.83	12.7	8.32	0.91	12.2	8.12	1.00	11.8	7.88	1.10
19.0	27	13.3	8.45	0.84	12.9	8.29	0.91	12.5	8.09	1.00	12.0	7.86	1.10
19.5	27	13.5	8.44	0.84	13.1	8.28	0.91	12.6	8.08	1.00	12.1	7.85	1.10
22.0	30	14.2	8.33	0.85	13.8	8.18	0.92	13.3	7.99	1.01	12.8	7.76	1.11
24.0	32	14.7	8.21	0.85	14.3	8.06	0.93	13.8	7.88	1.02	13.3	7.67	1.12

3D055649A

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. On the tables ▭ show rated capacity and rated coefficient of power input.
4. 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.
5. 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
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQ125B	FBQ125B	FHQ125B	FDQ125B
AFR (BF)	31 (0.07)	35 (0.14)	30 (0.13)	45 (0.25)

(Triple)

Model	FCQ50Bx3	FFQ50Bx3	FBQ50Bx3	FHQ50Bx3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

(Twin)

Model	FCQ60Bx2	FFQ60Bx2	FBQ60Bx2	FHQ60Bx2
AFR (BF)	18x2 (0.1x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)

(Double twin)

Model	FCQ35Bx4	FFQ35Bx4	FBQ35Bx4	FHQ35Bx4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

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

(Pair)

Model	FCQ125B	FBQ125B	FHQ125B	FDQ125B
Cooling	4.14	4.40	4.58	4.45
Heating	4.52	4.24	4.96	4.08

(Triple)

Model	FCQ50Bx3	FFQ50Bx3	FBQ50Bx3	FHQ50Bx3
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

(Twin)

Model	FCQ60Bx2	FFQ60Bx2	FBQ60Bx2	FHQ60Bx2
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

(Double twin)

Model	FCQ35Bx4	FFQ35Bx4	FBQ35Bx4	FHQ35Bx4
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

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.	(-)

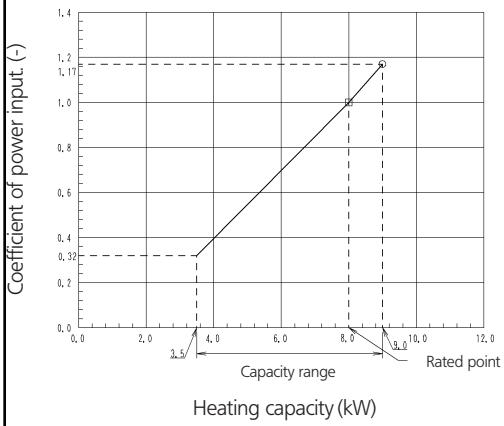
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQS71BV3

Heating



Heating capacity **230V [50Hz]**

Indoor	Outdoor temp. (°CWB)									
EDB	–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	5.68	1.12	6.22	1.17	6.75	1.23	8.02	0.92	8.64	0.97
18.0	5.67	1.16	6.21	1.22	6.74	1.28	8.01	0.96	8.62	1.01
20.0	5.67	1.21	6.20	1.27	6.74	1.33	8.00	1.00	8.61	1.05
21.0	5.66	1.23	6.20	1.29	6.73	1.35	8.00	1.02	8.61	1.07
22.0	5.66	1.25	6.19	1.32	6.73	1.38	7.99	1.04	8.60	1.09
24.0	5.65	1.30	6.19	1.36	6.72	1.43	7.98	1.08	8.59	1.13

3D055646

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. On the tables ▭ show rated capacity and rated coefficient of power input.
4. 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.
5. 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
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.
   (Pair)

Model	FCQ71B	FBQ71B	FHQ71B	FAQ71B
AFR	18	19	17	19
(BF)	(0.10)	(0.11)	(0.10)	(0.08)

10. Rated power input of each model is tabulated below.
    (Pair)

Model	FCQ71B	FBQ71B	FHQ71B	FAQ71B
Cooling	2.46	2.52	2.53	2.53
Heating	2.61	2.40	2.85	2.61

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

(Multi)

Model	FCQ35Bx2	FFQ35Bx2	FBQ35Bx2	FHQ35Bx2
AFR	14x2	10x2	11.5x2	13x2
(BF)	(0.16x2)	(0.25x2)	(0.15x2)	(0.2x2)

(Multi)

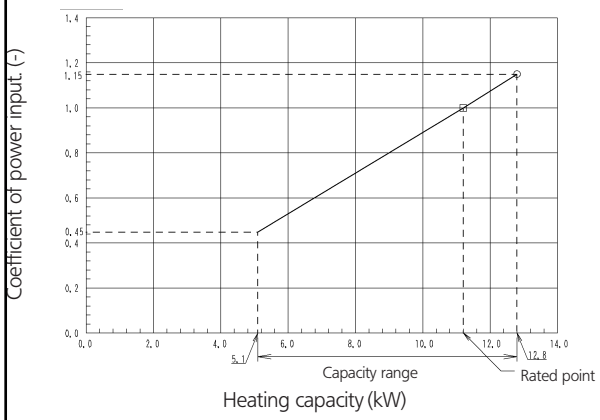
Model	FCQ35Bx2	FFQ35Bx2	FBQ35Bx2	FHQ35Bx2
Cooling	2.59	2.61	2.57	2.66
Heating	2.75	2.70	2.47	2.85

5 Capacity tables

5 - 3 Heating capacity tables

RZQS100BV3

Heating



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

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

3D055647

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. On the tables ▭ show rated capacity and rated coefficient of power input.
4. 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.
5. 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
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQ100B	FBQ100B	FHQ100B	FAQ100B
AFR (BF)	28 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)

(Triple)

Model	FCQ35Bx3	FFQ35Bx3	FBQ35Bx3	FHQ35Bx3
AFR (BF)	14x3 (0.16x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

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

(Pair)

Model	FCQ100B	FBQ100B	FHQ100B	FAQ100B
Cooling	3.83	3.83	4.15	4.08
Heating	3.47	3.47	3.99	3.73

(Triple)

Model	FCQ35Bx3	FFQ35Bx3	FBQ35Bx3	FHQ35Bx3
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

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

(Twin)

Model	FCQ50Bx2	FFQ50Bx2	FBQ50Bx2	FHQ50Bx2
AFR (BF)	15x2 (0.16x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

(Twin)

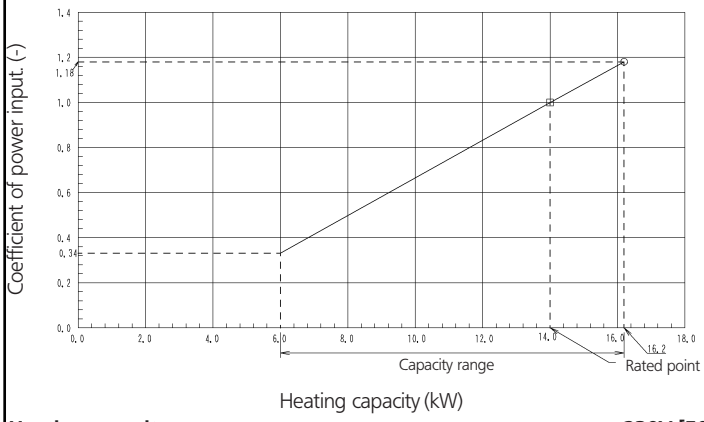
Model	FCQ50Bx2	FFQ50Bx2	FBQ50Bx2	FHQ50Bx2
Cooling	3.83	3.83	3.83	4.15
Heating	3.65	3.54	3.58	3.99

5 Capacity tables

5 - 3 Heating capacity tables

RZQS125BV3

Heating



Heating capacity **230V [50Hz]**

Indoor	Outdoor temp. (°CWB)									
EDB	–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

3D0455649A

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. On the tables ▭ show rated capacity and rated coefficient of power input.
4. 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.
5. 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
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ125B	FBQ125B	FHQ125B	FDQ125B
AFR	31	35	30	45
(BF)	(0.07)	(0.14)	(0.13)	(0.25)

Twin

Model	FCQ50Bx3	FFQ50Bx3	FBQ50Bx3	FHQ50Bx3
AFR	15x3	12x3	14x3	13x3
(BF)	(0.16x3)	(0.16x3)	(0.15x3)	(0.1x3)

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

Pair

Model	FCQ125B	FBQ125B	FHQ125B	FDQ125B
Cooling	4.14	4.40	4.58	4.45
Heating	4.52	4.24	4.96	4.08

Twin

Model	FCQ50Bx3	FFQ50Bx3	FBQ50Bx3	FHQ50Bx3
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

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

Triple

Model	FCQ60Bx2	FFQ60Bx2	FBQ60Bx2	FHQ60Bx2
AFR	18x2	15x2	19x2	17x2
(BF)	(0.1x2)	(0.11x2)	(0.11x2)	(0.2x2)

Double twin

Model	FCQ35Bx4	FFQ35Bx4	FBQ35Bx4	FHQ35Bx4
AFR	14x4	10x4	11.5x4	13x4
(BF)	(0.16x4)	(0.25x4)	(0.15x4)	(0.2x4)

Triple

Model	FCQ60Bx2	FFQ60Bx2	FBQ60Bx2	FHQ60Bx2
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

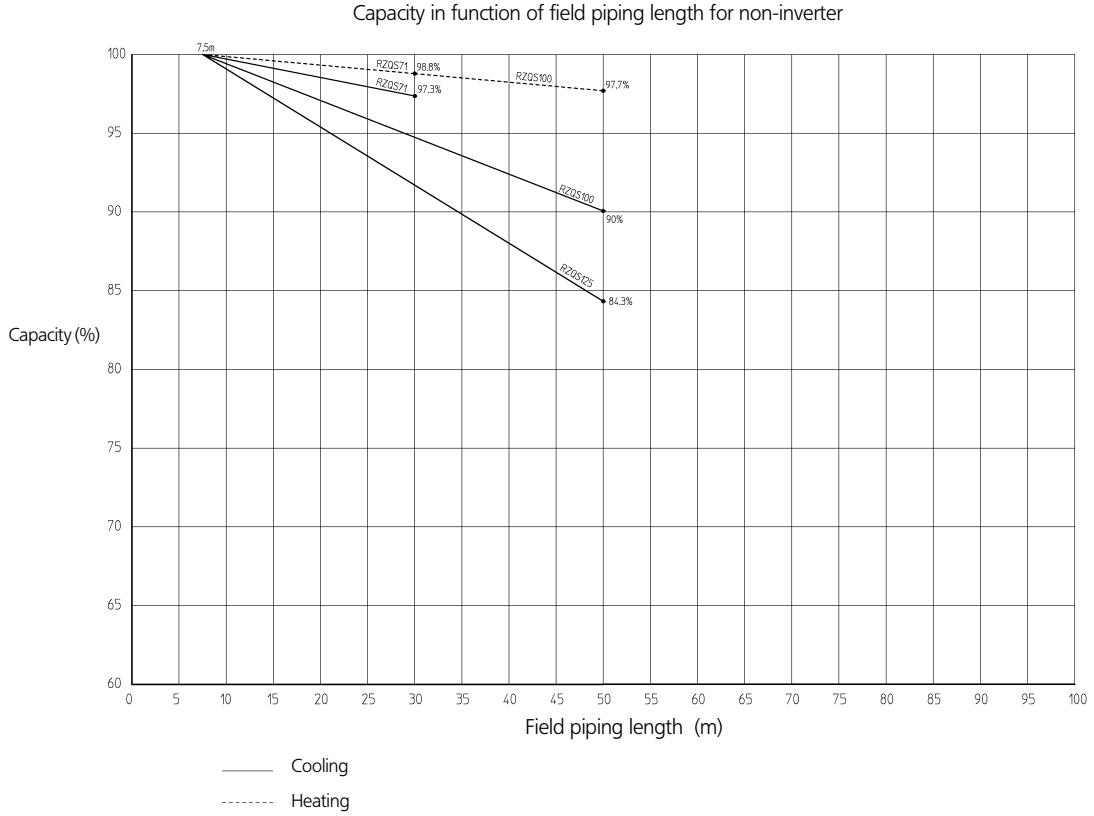
Double twin

Model	FCQ35Bx4	FFQ35Bx4	FBQ35Bx4	FHQ35Bx4
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

5 Capacity tables

5 - 4 Capacity correction factor

RZQS71-125BV3

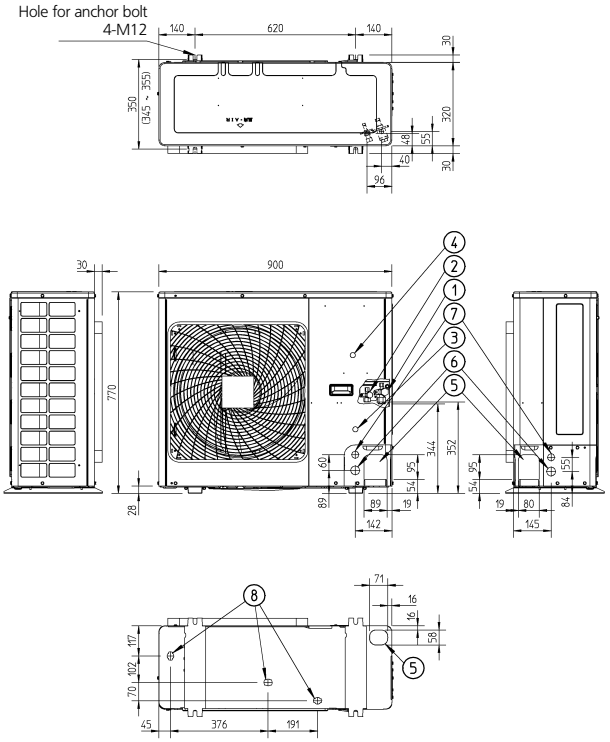


6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

RZQS71-100BV3

unit (mm)

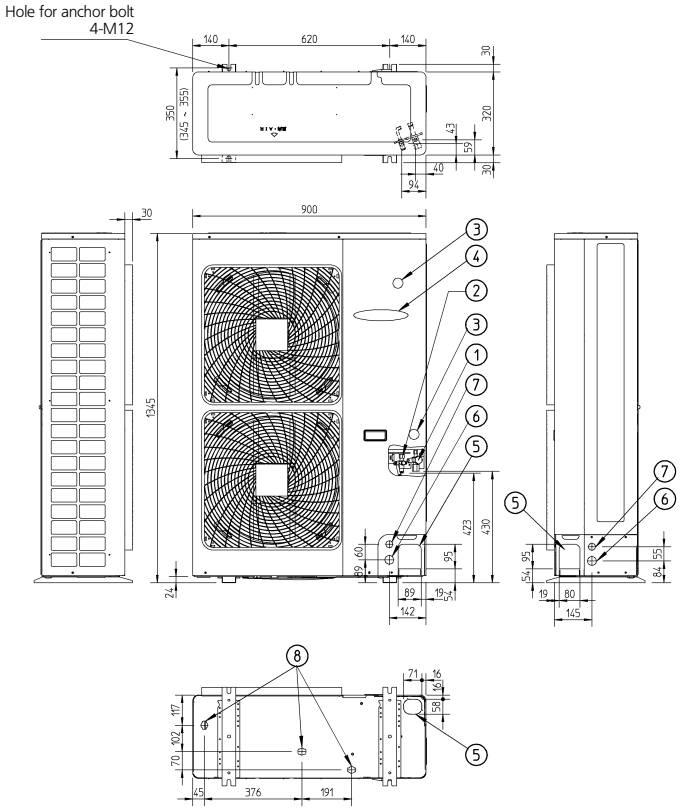


1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3TW25144-1A

RZQS125BV3

unit (mm)



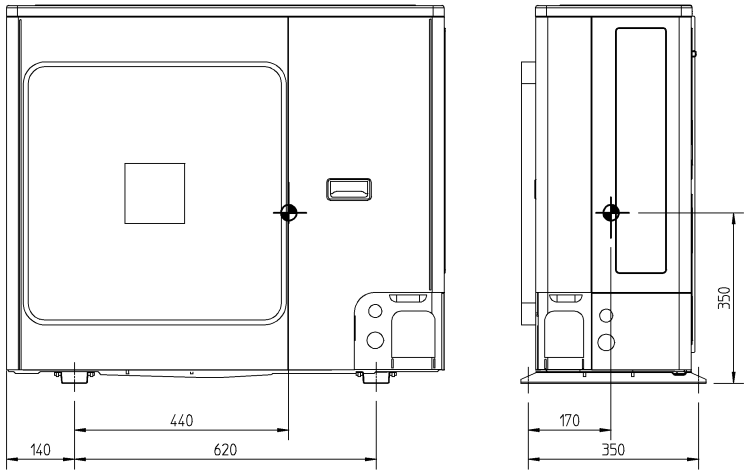
1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Electronic connection and grounding terminal MS (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3TW26071-1

6 Dimensional drawing & centre of gravity

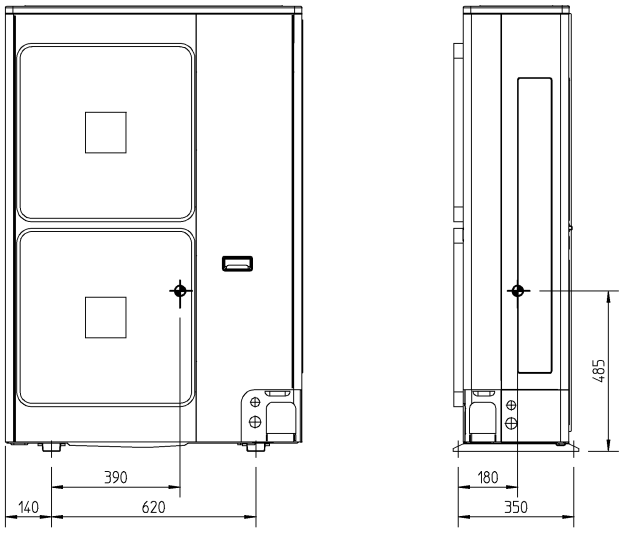
6 - 2 Centre of gravity

RZQS71-100BV3



4TW26069-3

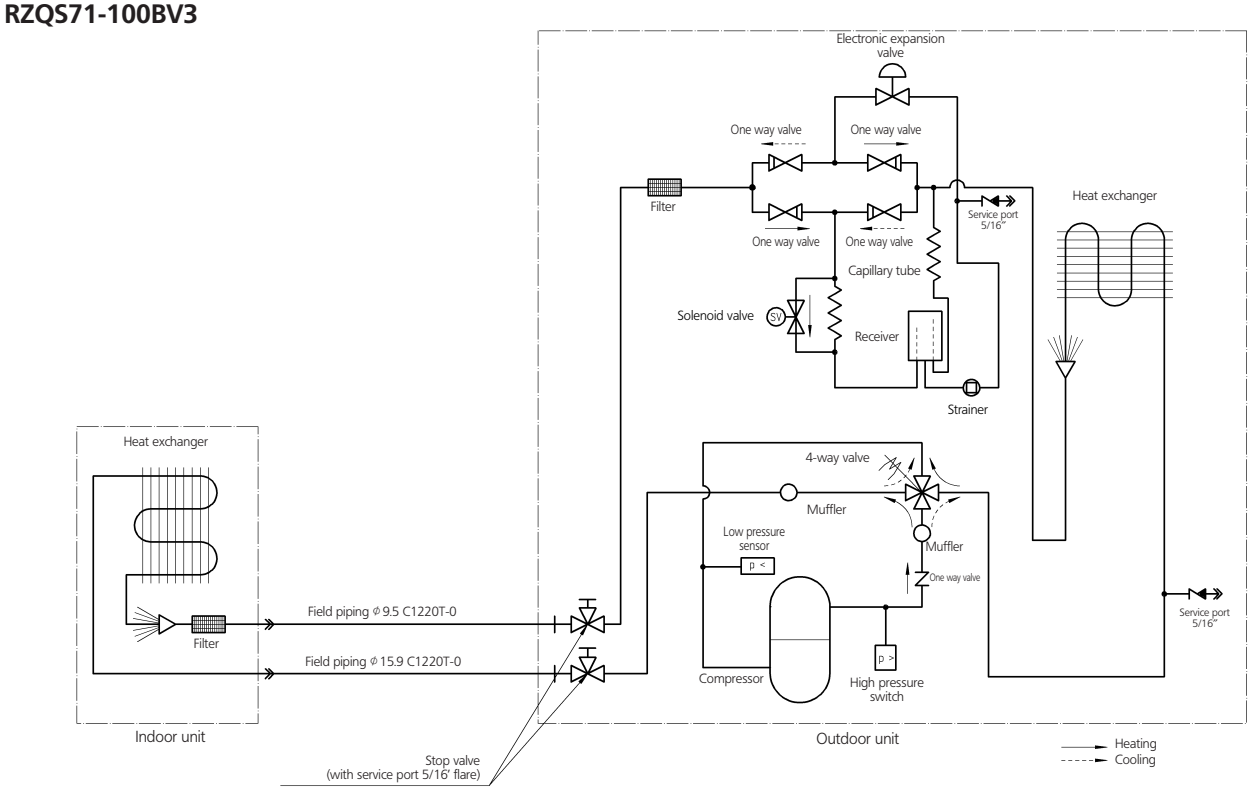
RZQS125BV3



4TW26079-3

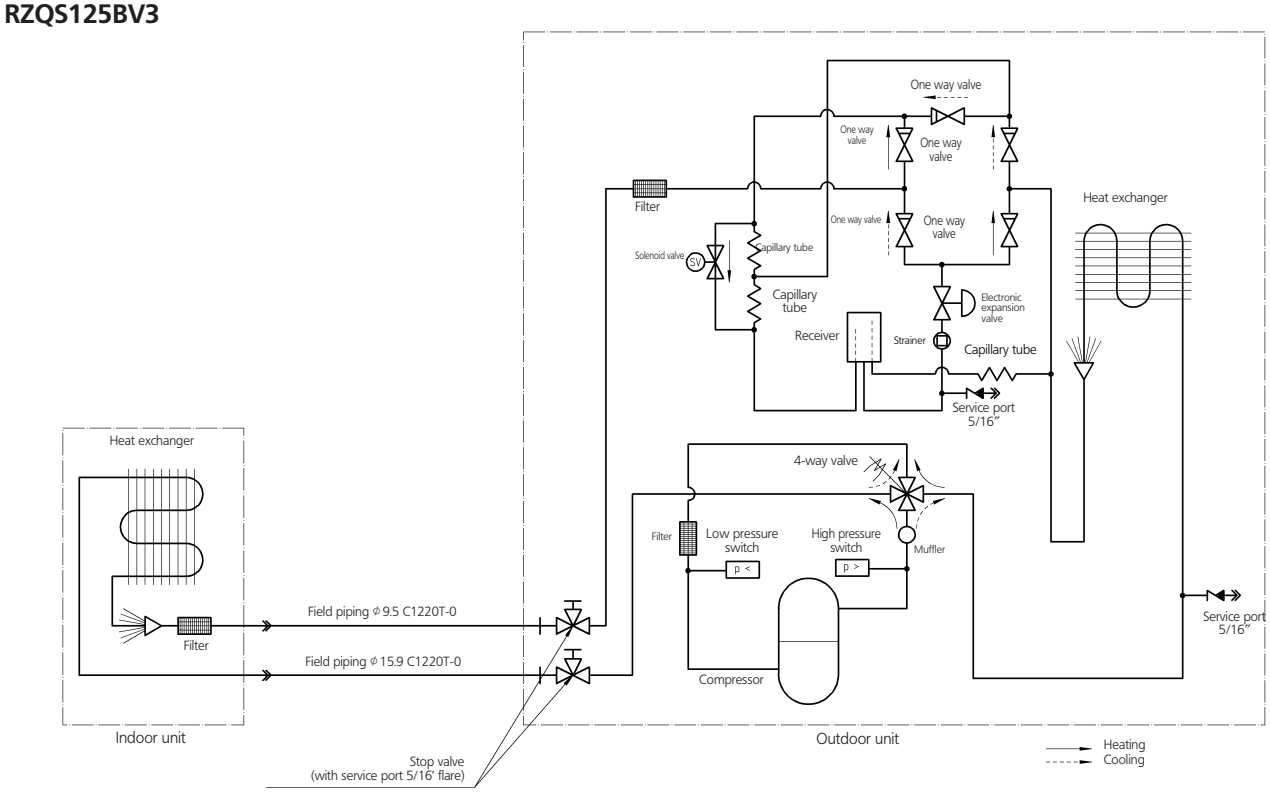
7 Piping diagram

RZQS71-100BV3



3TW26735-1

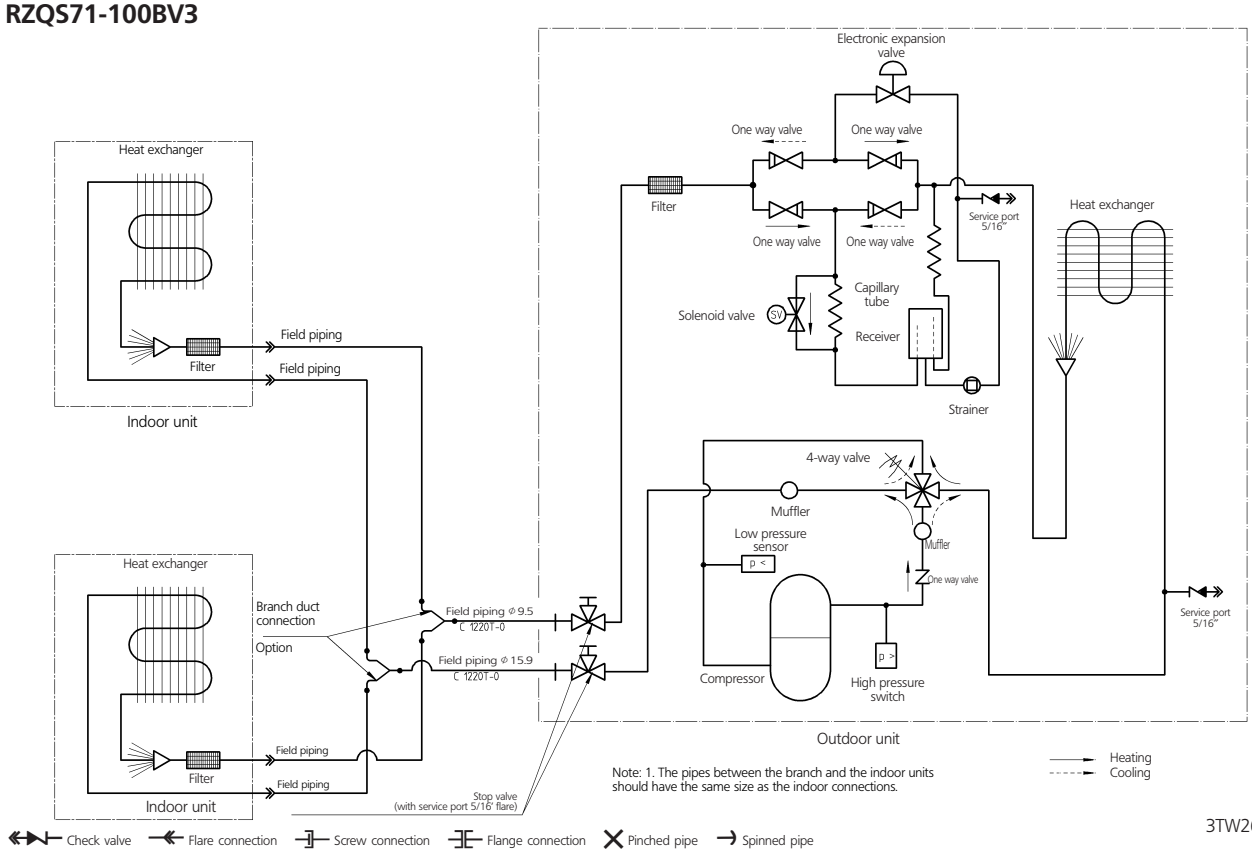
RZQS125BV3



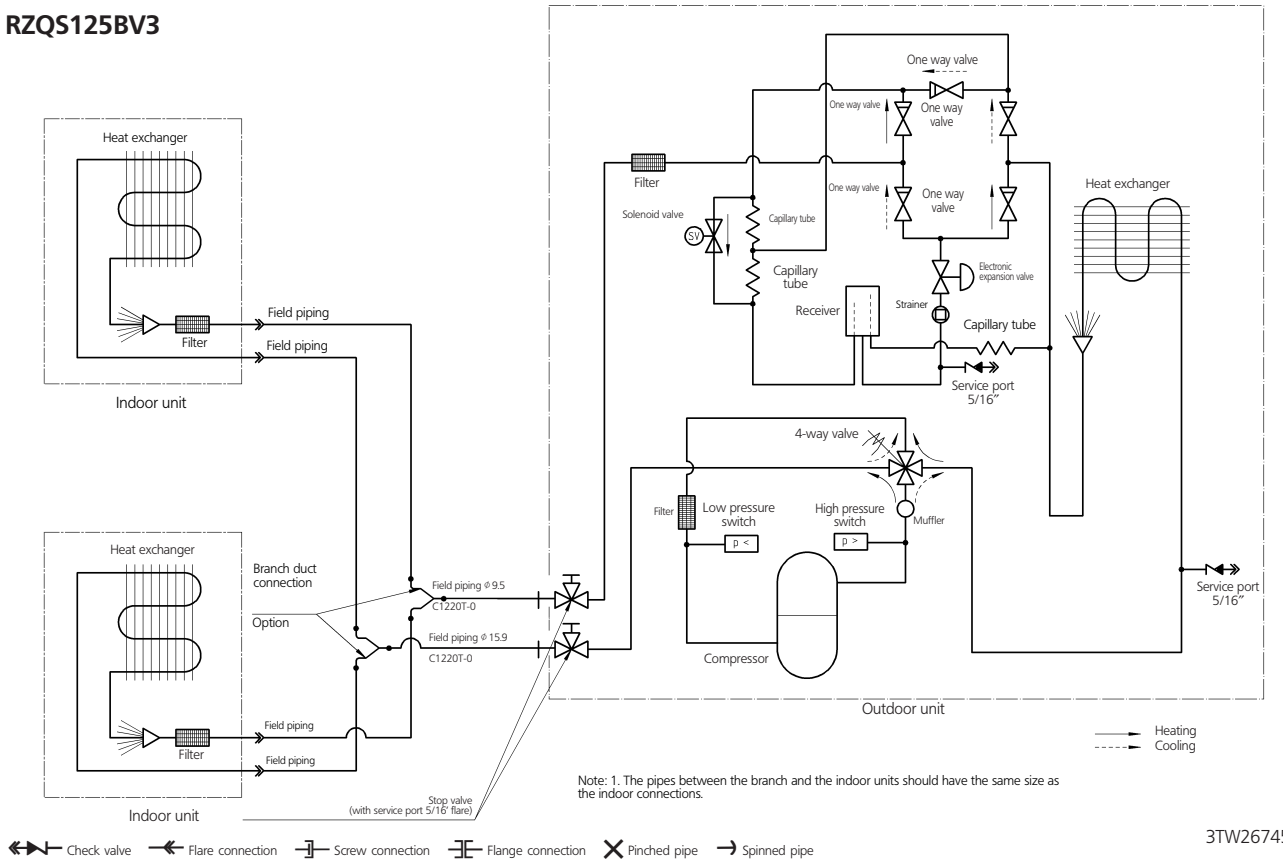
3TW26745-1

7 Piping diagram

RZQS71-100BV3

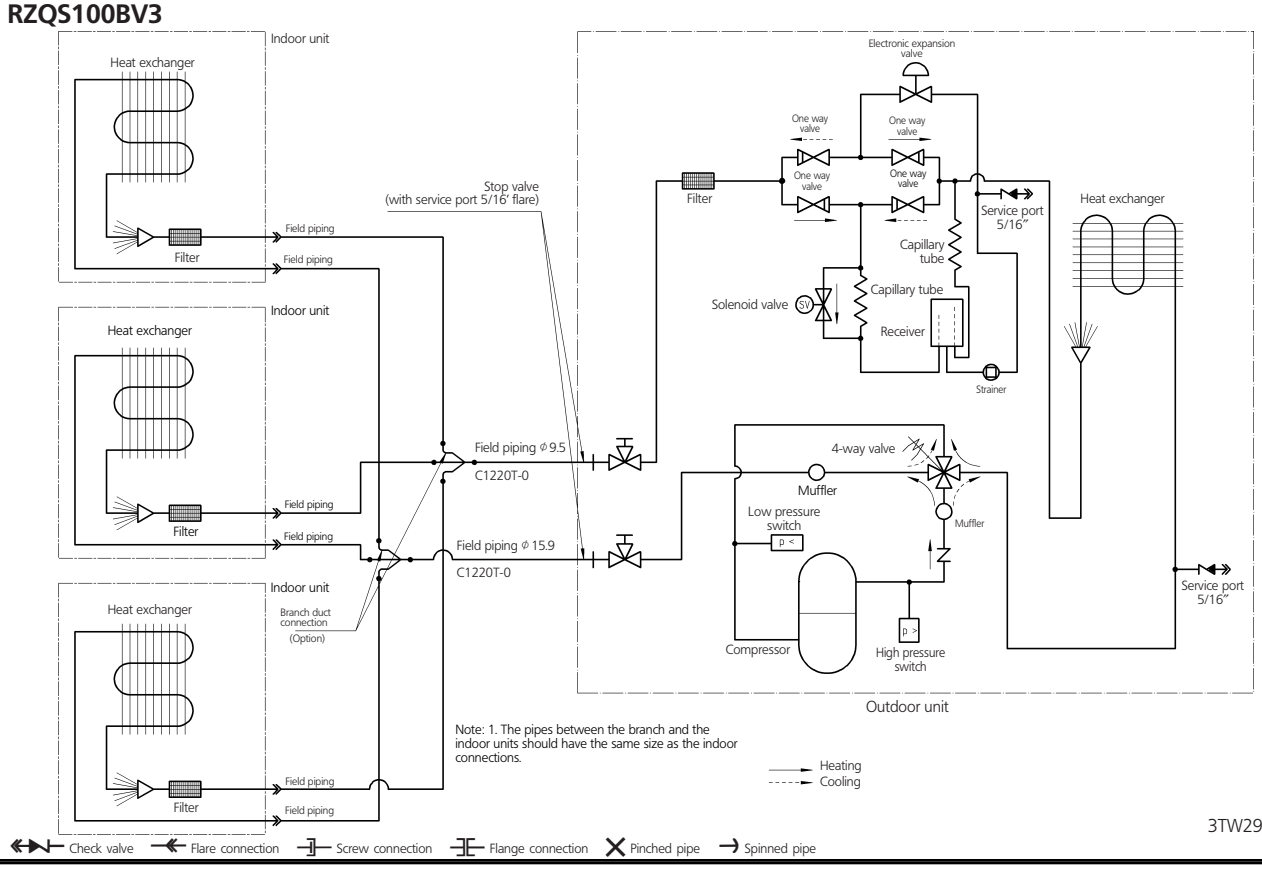


RZQS125BV3

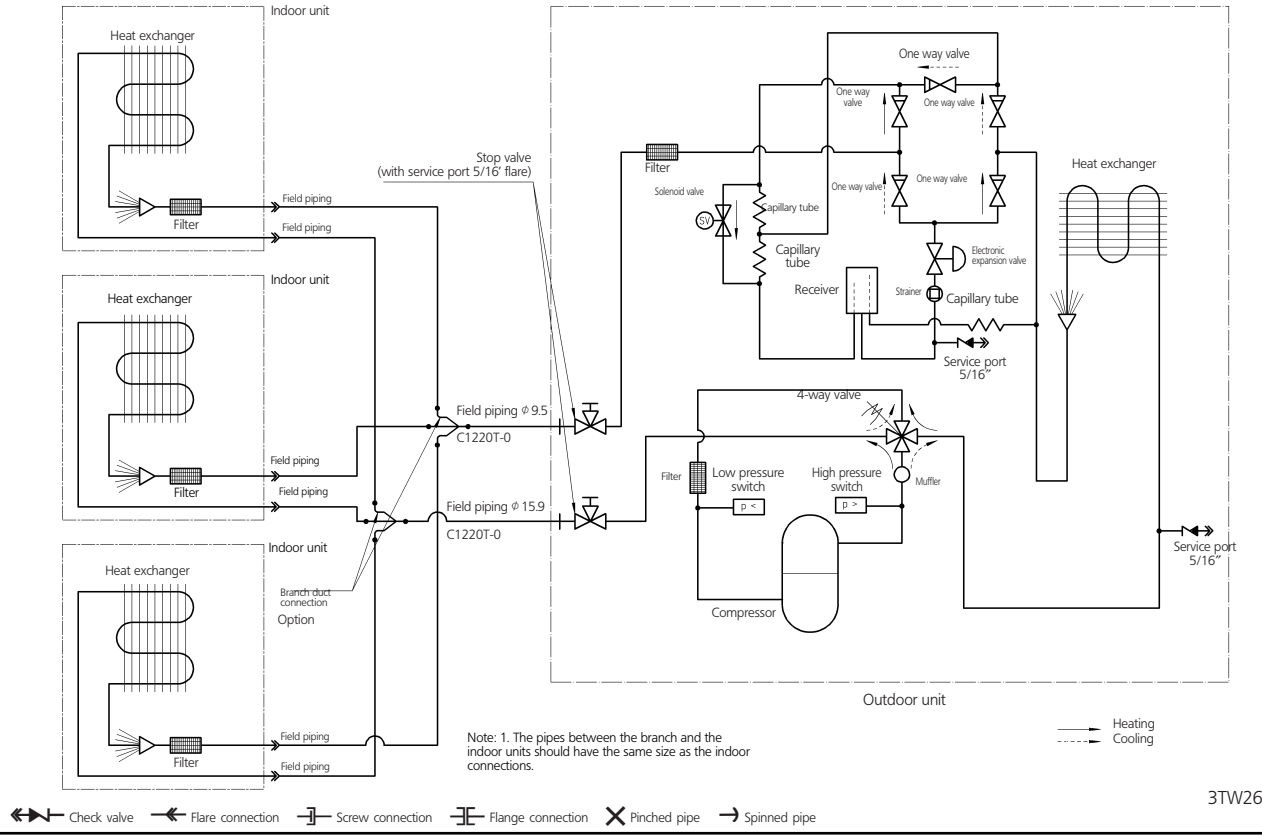


7 Piping diagram

RZQS100BV3

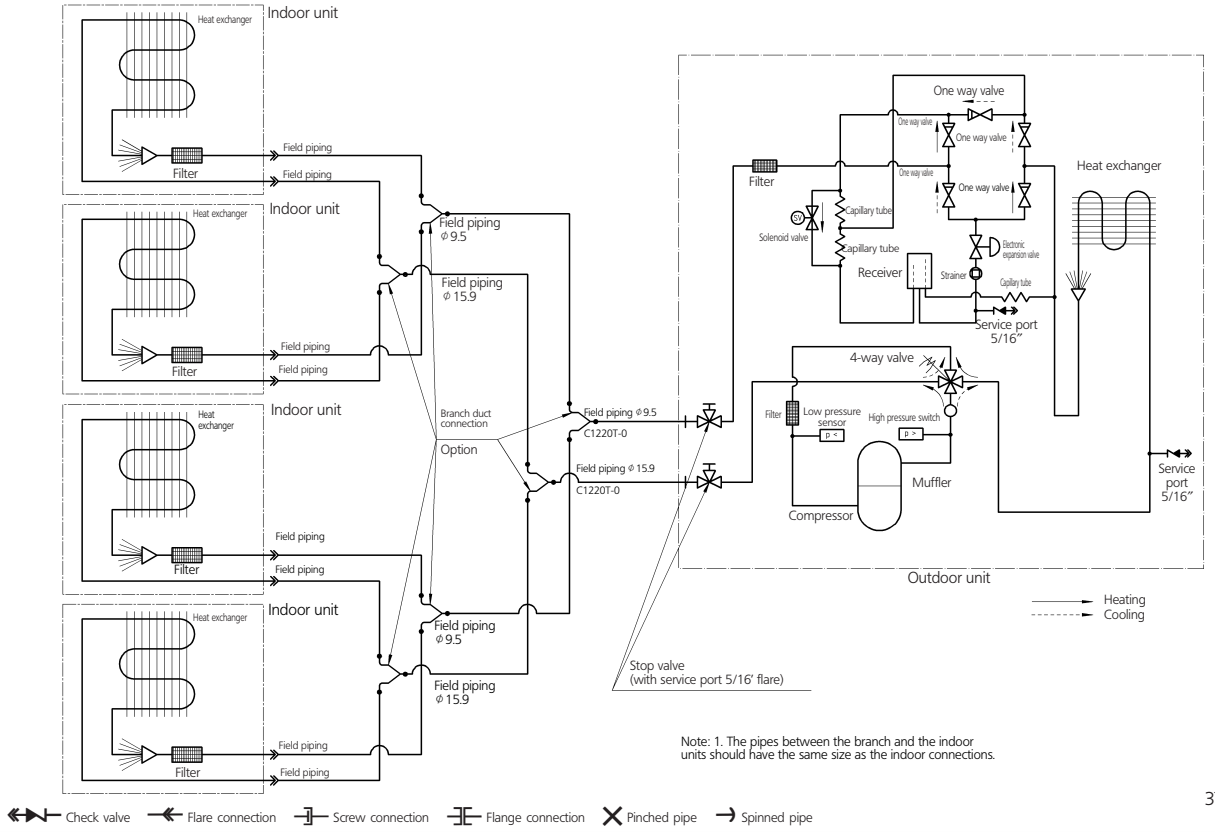


RZQS125BV3



7 Piping diagram

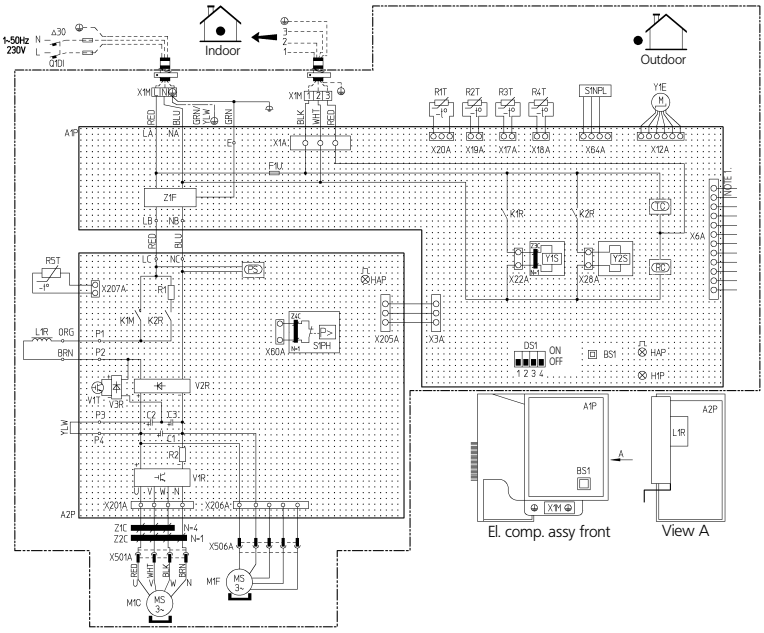
RZQS125BV3



8 Wiring diagram

8 - 1 Wiring diagram

RZQS71-100BV3



L : Live
N : Neutral
: Field wiring
: Protective earth (screw)
: Wire clamp
: Terminal
: Connector
: Relay connector

Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW:Yellow /
BRN: Brown / GRN: Green

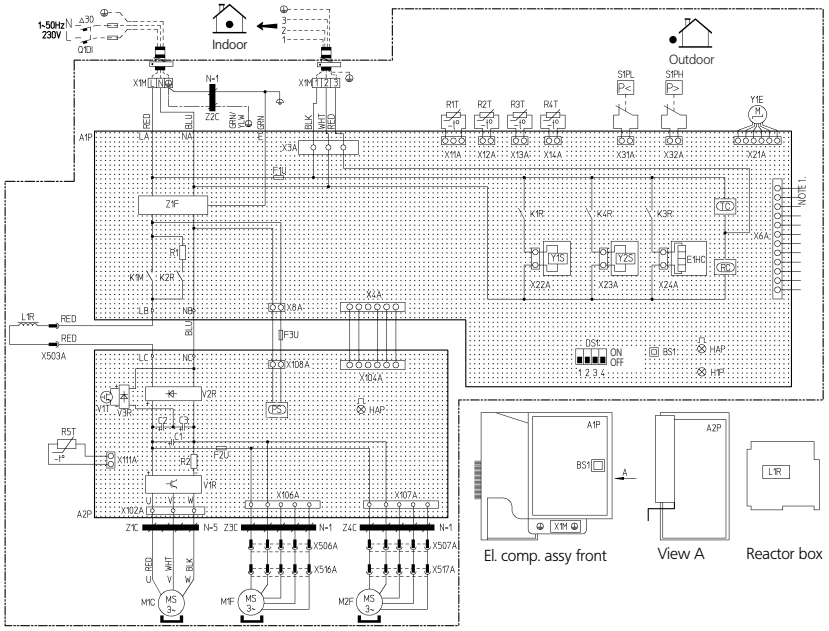
NOTES:

1. Refer to the optional manual, for connection wiring to X6A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.

A1P	Printed circuit board
A2P	Printed circuit board (INV)
BS1	Push button switch (forced def. / pump down)
C1-C2-C3	Capacitor
DS1	Dip switch
F1U	Fuse (T6, 3A/250V)
HAP (A1P)	Light emitting diode (service monitor green)
HAP (A2P)	Light emitting diode (service monitor green)
H1P (A1P)	Light emitting diode (service monitor red)
K1M(A2P)	Magnetic contactor
K1R(A1P)	Magnetic relay (Y1S)
K2R(A1P)	Magnetic relay (Y2S)
K2R(A2P)	Magnetic relay
L1R	Reactor
M1C	Motor compressor
M1F	Motor fan
PS	Power circuit
Q1DI	Earth leakage breaker (30mA)
R1-R2	Resistor
R1T	Thermistor (air)
R2T	Thermistor (coil)
R3T	Thermistor (discharge pipe)
R4T	Thermistor (suction pipe)
R5T	Thermistor (power module)
S1PH	Pressure switch (high)
S1NPL	Pressure sensor (low)
RC	Signal receiver circuit
TC	Signal transmission circuit
V1R	Power module
V2R-V3R	Diode module
V1T	IGBT
X6A	Connector (Option)
X1M	Terminal strip
Y1E	Expansion valve
Y1S	4-way valve
Y2S	Solenoid valve
Z1C, Z2C	Noise filter
Z3C, Z4C	
Z1F	Noise filter (with surge absorber)

2TW26736-1B

RZQS125BV3



L : Live
N : Neutral
: Field wiring
: Protective earth (screw)
: Wire clamp
: Terminal
: Connector
: Relay connector

Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW:Yellow /
BRN: Brown / GRN: Green

NOTES:

1. Refer to the optional manual, for connection wiring to X6A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.

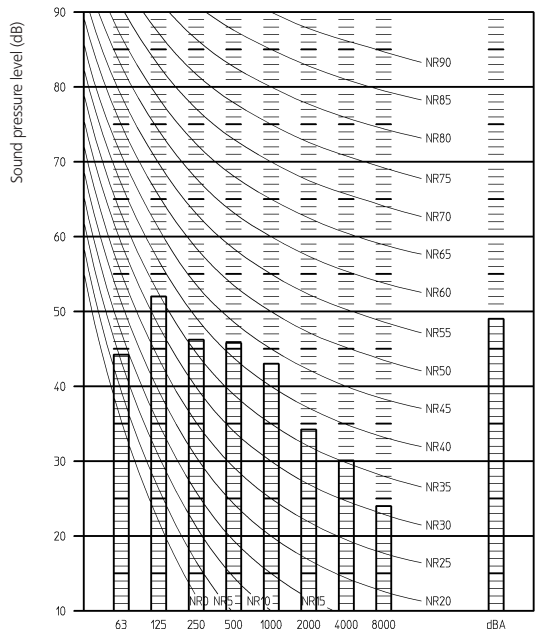
A1P	Printed circuit board
A2P	Printed circuit board (INV)
BS1	Push button switch (forced def. / pump down)
C1-C2-C3	Capacitor
DS1	Dip switch
E1HC	Crankcase heater
F1U	Fuse (T 6,3A/250V)
F2U	Fuse
F3U	Fuse (B 5A/250V)
HAP (A1P)	Light emitting diode (service monitor green)
HAP (A2P)	Light emitting diode (service monitor green)
H1P (A1P)	Light emitting diode (service monitor red)
K1M(A2P)	Magnetic contactor
K1R(A1P)	Magnetic relay (Y1S)
K2R(A1P)	Magnetic relay
K3R(A1P)	Magnetic relay (E1HC)
K4R (A1P)	Magnetic relay (Y2S)
L1R	Reactor
M1C	Motor compressor
M1F	Motor fan
PS	Power circuit
Q1DI	Earth leakage breaker (30mA)
R1-R2	Resistor
R1T	Thermistor (air)
R2T	Thermistor (coil)
R3T	Thermistor (discharge pipe)
R4T	Thermistor (suction pipe)
R5T	Thermistor (power module)
S1PH	Pressure switch (high)
S1NPL	Pressure sensor (low)
TC	Signal transmission circuit
V1R	Power module
V2R-V3R	Diode module
V1T	IGBT
X6A	Connector (Option)
X1M	Terminal strip
Y1E	Expansion valve
Y1S	4-way valve
Y2S	Solenoid valve
Z1C, Z2C	Noise filter
Z3C, Z4C	
Z1F	Noise filter
Z1F	Noise filter (with surge absorber)

2TW26746-1

9 Sound data

9 - 1 Sound pressure spectrum

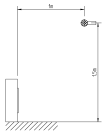
RZQS71BV3 - Cooling



3TW29067-1A Octave band center frequency (Hz)

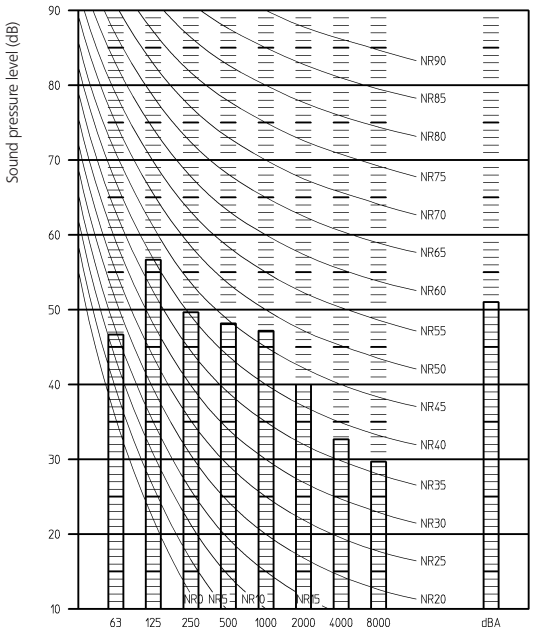
NOTES

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



Measuring location (discharge side)

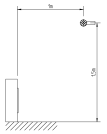
RZQS71BV3 - Heating



3TW29067-2A Octave band center frequency (Hz)

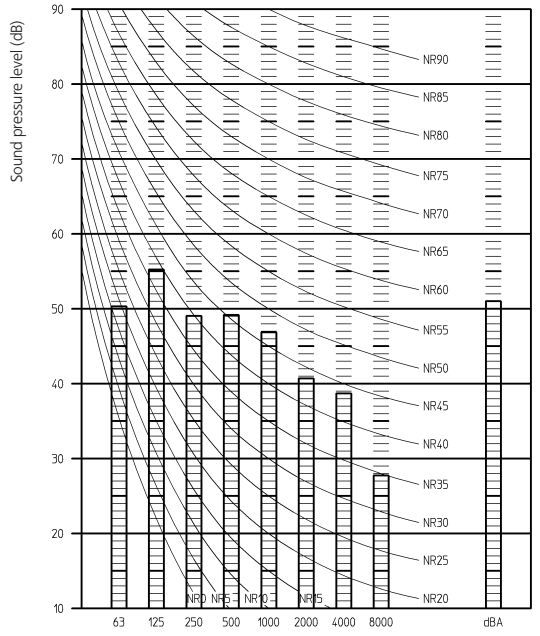
NOTES

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



Measuring location (discharge side)

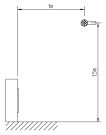
RZQS100BV3 - Cooling



3TW29077-1A Octave band center frequency (Hz)

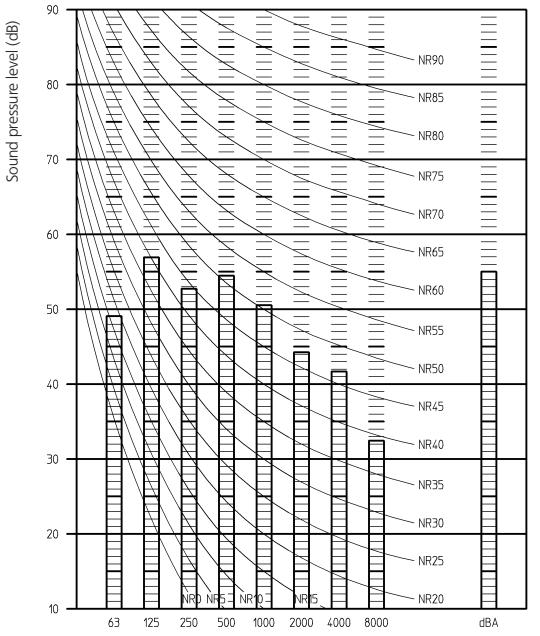
NOTES

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



Measuring location (discharge side)

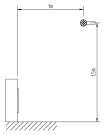
RZQS100BV3 - Heating



3TW29077-2A Octave band center frequency (Hz)

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

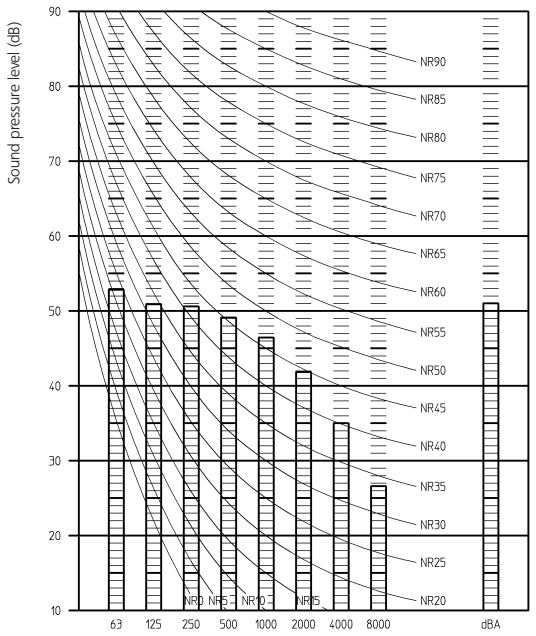


Measuring location (discharge side)

9 Sound data

9 - 1 Sound pressure spectrum

RZQS125BV3 - Cooling

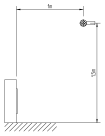


3TW29087-1A

Octave band center frequency (Hz)

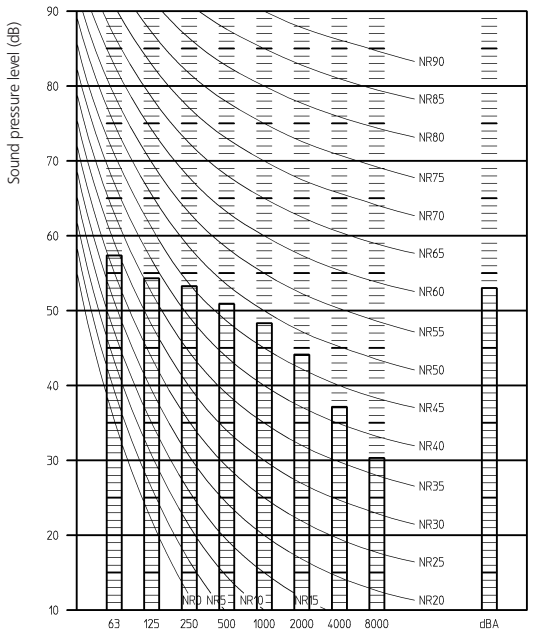
NOTES

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



Measuring location (discharge side)

RZQS125BV3 - Heating

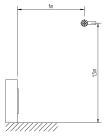


3TW29087-2A

Octave band center frequency (Hz)

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

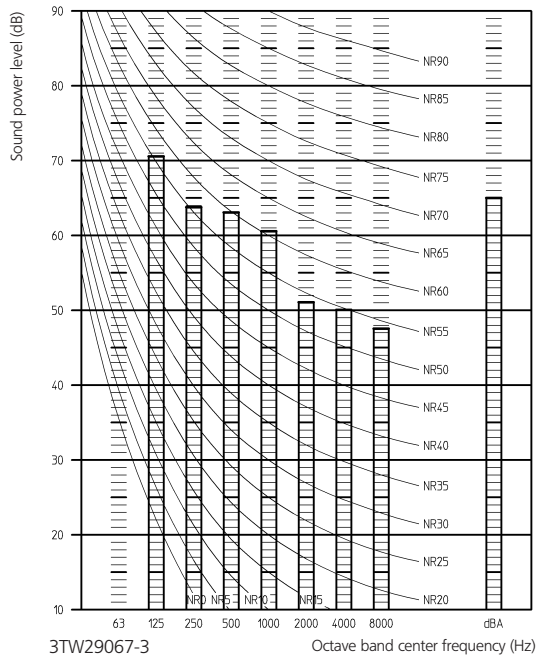


Measuring location (discharge side)

9 Sound data

9 - 2 Sound power spectrum

RZQS71BV3

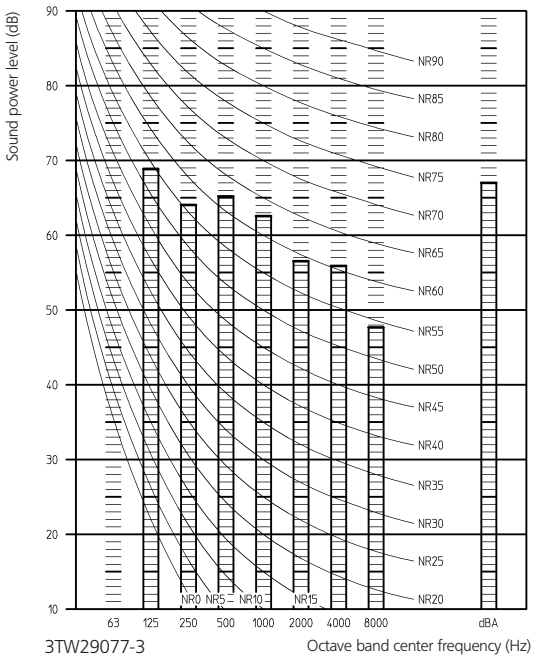


3TW29067-3

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

RZQS100BV3

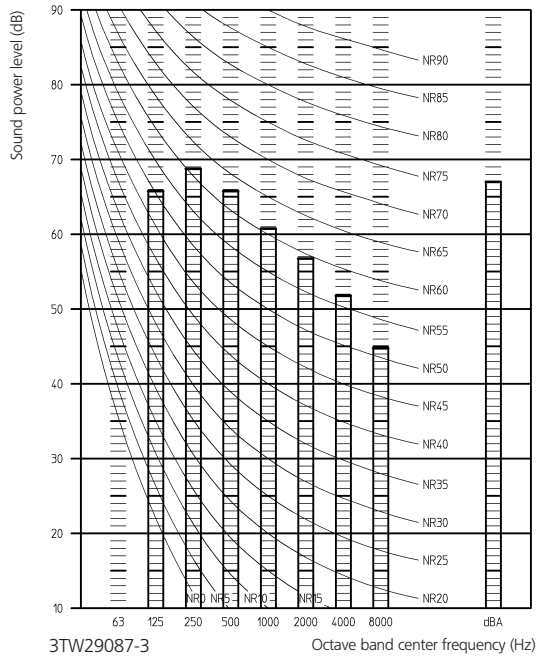


3TW29077-3

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

RZQS125BV3



3TW29087-3

NOTES

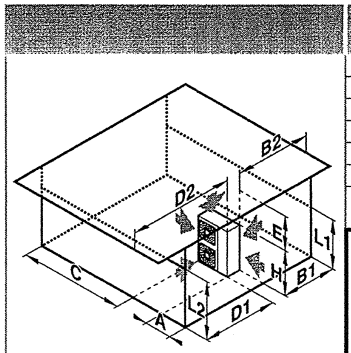
1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

10 Installation

10 - 1 Installation method

RZQS71~125BV3

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	
											≥1000			0<L1≤1/2H	
						H<L1		L1≤H							1
					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	
											≥1250			1/2H<L1≤H	
						H<L1		L1≤H							1
					L2<L1	L2≤H		≥150(250)			≥1000 (1500)	≤500	≥1000	0<L2≤1/2H	
								≥200(300)						1/2H<L2≤H	
						H<L2		L2≤H							2

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.

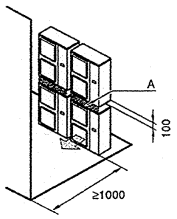
In these cases, only 2 units can be installed.

This situation is not allowed.

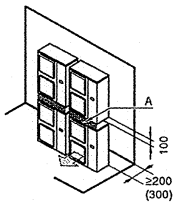
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



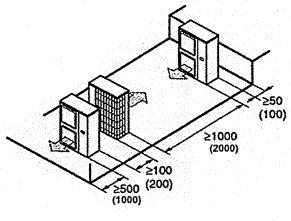
2. Obstacles exist in front of the air inlet



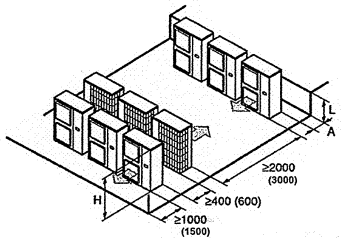
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



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



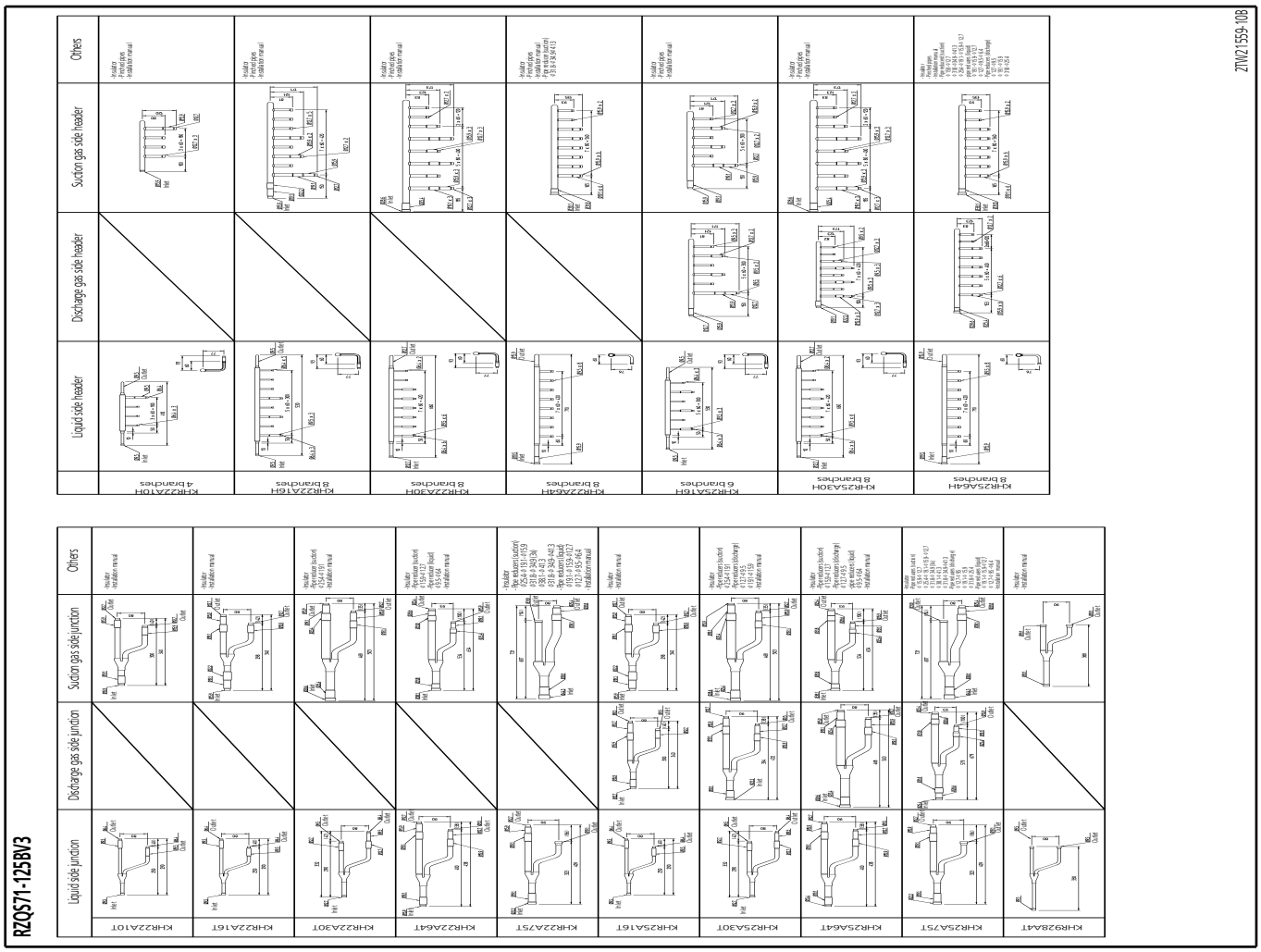
Relation of dimensions of H, A, and L are shown in the table below.

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

3TW26739-4

10 Installation

10 - 2 Refnet pipe systems

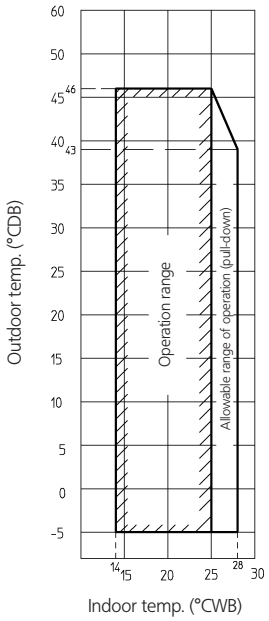


11 Operation range

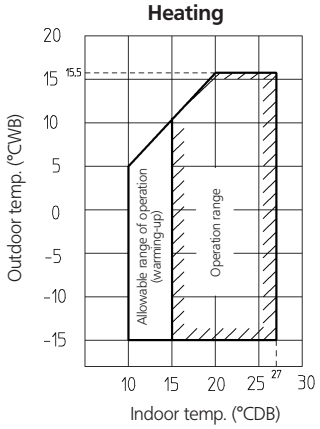
RZQS71-100-125-140BV3

Model name
RZQS71BV3
RZQS100BV3
RZQS125BV3

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.

3TW29063-1

11 Operation range