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 NOMIN NOMINAL I	NAL CAPACII NPUT	ry and		RZQS125C7V1B	RZQS140C7V1B			
For combination indoor units + outdoor units	Indoor Units			FCHQ125C7VEB	FCHQ140C7VEB			
Cooling capacity	Standard	kW		12.5	14.0			
Heating capacity	Standard	kW		14.0	16.0			
Power Input	Cooling	Standard	kW	3.88	4.98			
	Heating	Standard	kW	4.11	4.98			
For	EER	Nominal		3.22	2.81			
combination indoor units +	COP	Nominal		3.41	3.21			
outdoor units	Energy Label	Cooling		A	C			
		Heating		В	C			
	Annual energy	consumption	kWh	1940	2490			
0	Indoor Units	114/		FCQ125C7VEB	FCQ140C7VEB			
Cooling capacity	Standard	kW		12.5	14.0			
Heating capacity	Standard	kW		14.0	16.0			
Power Input	put Cooling Standard k		kW	4.14	5.36			
	Heating	Standard	kW	4.52	5.69			
For	EER	Nominal		3.02	2.61			
combination indoor units +	COP	Nominal		3.1	2.81			
outdoor units Energy Label		Cooling		В	D			
		Heating						
	Annual energy	consumption	kWh	2070	2680			
0 1	Indoor Units	1114		FBQ125B8V3B	FBQ140B8V3B			
Cooling capacity	Standard	kW		12.5	13.4			
Heating capacity	Standard	kW		14.0	15.5			
Power Input	Cooling	Standard	kW	4.40	4.77			
	Heating	Standard	kW	4.24	4.83			
For	EER	Nominal		2.84	2.81			
combination	COP	Nominal		3.30	3.21			
indoor units + outdoor units	Energy Label	Cooling		Ċ				
		Heating	•		2			
	Annual energy	consumption	kWh	2200	2385			
	Indoor Units			FHQ12	5BVV1B			
Cooling capacity	Standard	kW		12	2.5			
Heating capacity	Standard	kW		14	1.0			
Power Input	Cooling	Standard	kW		58			
	Heating	Standard	kW		96			
For	EER	Nominal			73			
combination	COP	Nominal			82			
indoor units + outdoor units	Energy Label	Cooling)			
		Heating		D				
	Annual energy	consumption	kWh	2290				
Cooling	Indoor Units Standard	kW			5B8V3B			
capacity Heating	Standard	kW			2.5			
capacity			1.14		1.0			
Power Input	Cooling	Standard	kW		45			
	Heating	Standard	kW	4.	08			

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQ\$125C7V1B RZQ\$140C7V1B				
For	EER Nominal			2.81				
combination	COP	Nominal		3.43				
indoor units + outdoor units	Energy Label	Cooling		С				
outdoor units		Heating		В				
Annual energy consumption kWh		kWh	2225					

2-2 TECHI	NICAL SPECIE	ICATION	S	RZQS125C7V1B	RZQS140C7V1B			
Casing	Colour			Ivory	White			
	Material			Painted galvanised steel				
Dimensions	Unit	Height	mm	1170	1170			
		Width mm		900	900			
		Depth	mm	320	320			
	Packing	Height mm		1349	1349			
		Width	mm	980	980			
		Depth	mm	420	420			
Weight	Unit	1 '	kg	103	103			
0	Packed Unit		kg	114	114			
Heat	Dimensions	Length	mm		857			
Exchanger		Nr of Rows		2	2			
Ū		Fin Pitch	mm	1.4	1.4			
		Nr of Pass		6	6			
		Face	m²	0	0			
		Area	111	0.98	0.98			
		Nr of Stages		52	52			
	Tube type			525252				
	Fin Type			WF fin				
	1	Treatment						
Fan	Turne	Heatment		Anti-corrosion treatment (PE) Direct Drive Propeller				
-an	Type Discharge disco	£						
	Discharge direc	tion			zontal			
	Quantity			2	2			
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	100	97			
		Heating	m³/min	88	88			
	Motor	Quantity		2	2			
		Model			DC Motor			
Motor	Speed	Steps	T	8	8			
	(nominal)	Cooling	rpm	850	830			
		Heating	rpm	740	740			
an	Motor	Output	W	70	70			
Compressor	Quantity			1	1			
	Motor	Model		JT100G-VD				
		Model		Inverter				
		Туре		Hermetically seale	d scroll compressor			
		Motor	W	2200	2200			
		Output		2200	2200			
		Crankcase Heater	W	33	33			
Operation	Cooling	Min	°CDB	-5	-5			
Range		Max	°CDB	46	46			
	Heating	Min	°CWB	-15	-15			
		Max	°CWB	15.5	15.5			
Sound Level nominal)	Cooling	Sound Power	dBA	67	68			
		Sound Pressure	dBA	51	52			
	Heating	Sound Pressure	dBA	53	54			
Sound Level (Night quiet)	Sound Pressure		dBA	49	50			

2 Specifications

2-2 TECHN	IICAL SPECI	ICATION	S	RZQS125C7V1B	RZQS140C7V1B			
Refrigerant	Туре			R-4	10A			
	Charge		kg	3.7	3.7			
	Control			Expansion valve	e (electronic type)			
	Nr of Circuits			1 1				
Refrigerant Oil	Туре			Daphne	FVC68D			
	Charged Volume I			1.0	1.0			
Piping	Liquid (OD)	Quantity		1	1			
connections		Туре	;	Flare connection				
		Diameter (OD)	mm	9.52	9.52			
	Gas	Quantity		1	1			
		Туре		Flare co	nnection			
		Diameter (OD)	mm	15.9	15.9			
	Drain	Quantity		3	3			
		Туре		H	ole			
		Diameter (OD)	mm	26	26			
	Piping Length	Minimum	m	5	5			
		Maximum	m	50	50			
		Equivalent	m	95	95			
		Chargeless	m	30	30			
	Additional Refrigerant kg/m Charge			see installation ma	anual 4PW34874-1			
	Installation height difference	Maximum	m	30.0	30.0			
	Max. internunit level difference		m	0.5	0.5			
	Heat Insulation			Both liquid a	nd gas pipes			
Defrost Method					equalising			
Defrost Control				Sensor for outdoor heat	exchanger temperature			
Capacity Contro	l Method			Inverter	controlled			
Safety Devices				High press	sure switch			
				Fan motor the	ermal protector			
				Fi	ISE			
Standard	Item			Tie-v	vraps			
Accessories	Quantity			2	2			
	Item				on manual			
	Quantity			1	1			
Notes					: 7.5m, level difference : 0m.			
					rature : 200CDB, outdoor temperature : 70CDB, 60CWB, : 7.5m, level difference : 0m			

2-3 ELECT	RICAL SPEC	IFICATIO	NS	RZQS125C7V1B	RZQS140C7V1B			
Power Supply	Name			V1				
	Phase			1	1			
	Frequency		Hz	50	50			
	Voltage		V	230	230			
	Voltage range	Minimum	V	-1	0%			
		Maximum	V	+1	10%			
Current	Recomended fu	ses	А	32	32			
Wiring connections	For Power Supply	Remark		See installation manual 4PW34874-1				
	For connection with indoor	Remark		See installation manual 4PW34874-1				
Power Supply In	ntake	•		Outdoor unit only				
Notes				See separate drawings for electrical data				

3 Electrical data

RZQS125-140C												
Unit combination			Power supp	<u></u>			Cor			OFM	IFI	
		/olts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
	5C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.	07 <mark>0.3+0.3</mark>	0.120	1.4
FCQ125C7VEB RZQS12	5C7V1B			25.0i2		32		23.4	0.07+0.	<u>07i0,3+0,3i</u>	0.120	1.0
FCQ60C7VEBx2 RZQS12	5C7V1B			24.8	24.8	32	23.4	23.4	0.07+0.	07 <mark>0,3+0,3</mark>	0.056x2	0.4x2
FCQ50C7VEBx3 RZQS12	5C7V1B			24.91	24.9	32	23.4	23.4	0.07+0.	0710,3+0,31	0.056x3	0.3x3
FCQ35C7VEBx4 RZQS12	5C7V1B			25.2	25,2	32	23.4	23,4	0.0740.	07¦0,3+0,3¦	0.056x4	0.3x4
FFQ60BV1Bx2 RZQS12	5C7V1B			25.4	25.4	32	23.4	23.4	0.07+0.	07 0, 3+0, 3	0.055x2	0.7x2
FFQ50BV1Bx3 RZQS12	5C7V1B			26.11	26.1i	32				<u>0710.3+0.31</u>		
FFQ35BV1Bx4 RZQS12	5C7V1B			26.4	26.4	32	23.4	23,4	0.07+0.	07 0,3+0,3	0.055x4	0.6x4
FBQ125B7V3B RZQS12	5C7V1B 50-	220		25.4	25.4	32	23.4	23.4	0.07+0.	0710.3+0.31	0.225	1.4
FBQ60B7V1x2 RZQS12	<u>5C7V1B</u> 50-	230		25.8	25.8	32	23.4	23.4	0.07+0.	07¦0,3+0,3¦	0.125x2	0.9x2
FBQ50B7V1x3 RZQS12	5C7V1B 50-	240		26.1¦	26,1	32	23.4	23,4	0.07+0.	07 0.3+0.3	0.085x3	0.7x3
FBQ35B7V1x4 RZQS12	5C7V1B		Max. 50Hz 264V Min. 50Hz 198V	26.012	26,0i	32	23.4	23,4	0.07+0.	<u>0710, 3+0, 31</u>	0.065x4i	0.5x4
FHQ125BUV1B RZQS12	5C7V1B			24.7	24.7	32	23.4	23.4	0.07+0.	07 0.3+0.3	0.130	0.7
FHQ60BUV1Bx2 RZQS12	5C7V1B			25.2	25.2¦	32	23.4	23.4	0.07+0.	07 0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3 RZQS12	5C7V1B			25.81	25,8¦	32	23.4	23,4	0,07+0,	07¦0,3+0,3¦	0.062x3	0.6x3
FHQ35BUV1Bx4 RZQS12	5C7V1B			26.4 ¦	26.4	32	23.4	23.4	0.07+0.	07 0.3+0.3	0.062x4	0.6x4
FDQ125B7V3B RZQS12	5C7V1B			28.21	28.2	32	23.4	23.4	0.07+0.	0710,3+0,31	0.500 j	4.2
FCQH140C7VEB RZQS14	0C7V1B			25.4	25.4	32	23.4	23,4	0.07+0.	07 0.3+0.3	0.120	1.4
FCQ140C7VEB RZQS14	0C7V1B			25.0¦2	25.0¦	32	23.4	23,4	0.07+0.	07 0.3+0.3	0.120	1.0
FCQ71C7VEBx2 RZQS14	0C7V1B			25.01	25.0¦	32	23.4	23.4	0.07+0.	07¦0,3+0,3¦	0.056x2	0.5x2
FCQ50C7VEBx3 RZQS14	0C7V1B			24.9	24.9	32	23.4	23.4	0.07+0.	07 0.3+0.3	0.056x3	0.3x3
FCQ35C7VEBx4iRZQS14	0C7V1B			25.21	25.2i	32	23.4	23.4	0.07+0.	<u>0710.3+0.3</u> 1	0.056x4	0.3x4
FFQ50BV1Bx3 RZQS14	0C7V1B			26.1¦2	26,1	32	23.4	23,4	0.07+0.	07¦0.3+0.3¦	0.055x3	0.7x3
FFQ35BV1Bx4 RZQS14	0C7V1B			26.4¦2	26.4¦	32	23.4	23,4	0.07+0.	07 0.3+0.3	0.055x4	0.6x4
FBQ71B7V3Bx2iRZQS14	0C7V1B 50-	220		25.81	25.8¦	32	23.4	23.4	0.07+0.	07¦0,3+0,3¦	0.125x2	0,9x2
FBQ50B7V1x3 RZQS14	0C7V1B 50-	230		26.1¦	26.1	32	23.4	23.4	0.07+0.	07¦0,3+0,3¦	0.085x3	0.7x3
FBQ35B7V1x4 RZQS14	0C7V1B 50-	240		26.0	26.0	32	23.4	23.4	0.07+0.	0710.3+0.3	0.065x4	0.5x4
FHQ71BUV1Bx2 RZQS14	0C7V1B			25.2	25.2	32	23.4	23.4	0.07+0.	07 0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3 RZQS14	0C7V1B		Max. 50Hz 264V	25.8	25.8	32	23.4	23.4	0.07+0.	07 0, 3+0, 3	0.062x3	0.6x3
FHQ35BUV1Bx4iRZQS14	0C7V1B		Min. 50Hz 198V	26.41		32				0710,3+0,31		
FAQ71BUV1Bx2 RZQS14	0C7V1B			24.6	24.6	32	23.4	23.4	0.07+0.	07 0, 3+0, 3	0.043x2	0.3x2
			_ '									

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	SYMBOLS		NOTES
MCA	: Min. Circuit Amps (A)	1	RLA is based on the following conditions:
TOCA	: Total Over Current Amps (A)		Power supply: 50Hz - 230V Coolina
MFA	: Max. Fuse Amps (A) (See note 7)		Indoor temperature 27°CDB/19°CWB
MSC	: MSC means the max. current during the starting of compressor. (A)		Outdoor temperature 35°CDB Heating
RLA	: Rated Load Amps (A)		Indoor temperature 20.0°CDB Outdoor temperature 7.0°CDB/6.0°CWB
OFM	: Outdoor Fan Motor (A)	2	TOCA means the total value of each OC set
IFM	: Indoor Fan Motor	3	Voltage range
FLA	: Full Load Amps		Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or
kW	: Fan Motor Rated Output (kW)		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

	News of oution	Kit n	ame			
	Name of option	RZQS125C7V1B	RZQS140C7V1B			
Central drain pan kit		KKPJ5F180				
Refrigerant branch piping	Twin	KHRQ22M20TA				
	Triple	KHRQ127H				
	Double twin	KHRQ22M20TA	(3x)			
Demand adaptor		KRP58	M51			



5 - 1 Combination table

RZQS 125-140C

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

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NOTES

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

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

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

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

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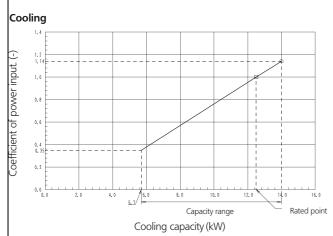
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5 - 2 Cooling capacity tables

RZQS125C (Pair + twin/triple/double twin)



Cooling capacity

Ind	loor	Outdoor temp. (°CDB)											
EWB	EDB		25			30			35			40	
(90)	(90)	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
(()	(()	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
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

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
 On the figure the mark _____ show the max, at standard conditions. On the figure the mark _____ show rated capacity and rated coefficient of power input. However the max, capacity is not guaranteed, except at standard condition.
 On the tables _____ show rated capacity and rated coefficient of power input.
 SHC is based on each EWB and EDB SHC* = 0.02 x AFR (m³/min.) x (1–BF) x (DB*–EDB) Add SHC* to SHC.

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- 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 : 50 m : 5.0 m : 0 m
- Level difference Level difference :0 m
 Coefficient of power input is the percentage when the rated valve is defined as 1.00.
 The value contains less than 5% error acording to indoor unit type.
 Heating capacity include the drop of frost formation.
 Air flow rate and BF are tabulated below.

(Pair)

(P	air)					
	Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FDQ125
	AFR (BF)	32.5 (0.19)	27.5 (0.19)	35 (0.14)	30 (0.13)	45 (0.25)
(T	riple)					
	Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3	
	AFR	12.5x3	12x3	14x3	13x3	

(BF)	(0.21x3)	(0.16x3)	(0.15x3)

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

(Г	(Fall)								
[Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FDQ125			
	Cooling	3.88	4.14	4.40	4.58	4.45			
	Heating	4.11	4.52	4.24	4.96	4.08			
(Triple)									
	Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3				

IVIOdel	FCQ50CX3	FFQ50X3	FRG20X3	FHQ50X3
Cooling	4.36	4.41	4.48	4.76
Heating	4.76	4.42	4.42	4.92

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

Caution:

TC and SHC are shown by kW

(Twin)								
Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2				
AFR (BF)	13.5x2 (0.21x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)				
(Double twin)	(Double twin)							
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4				
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)				

(Twin)

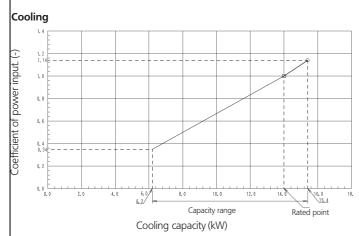
Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2			
Cooling	4.36	4.41	4.48	4.76			
Heating	4.76	4.42	4.42	4.92			
(Double twin)							
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4			
Cooling	4.36	4.41	4.48	4.76			
Heating	4.76	4.42	4.42	4.92			

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(0.1x3)

Cooling capacity tables 5 - 2

RZQS140C (Pair + twin/triple/double twin)



Cooling capacity

I.														
	Ind	oor						Outdoor te	emp. (°CDB)					
ĺ	EWB	EDB	25				30			35		40		
ĺ	(°C)	(00)	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
	(()	(()	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
ľ	16.0	22	12.8	8.66	0.76	12.7	8.74	0.89	13.1	9.12	0.99	12.6	8.84	1.09
ľ	18.0	25	14.6	9.50	0.83	14.2	9.31	0.91	13.7	9.09	1.00	13.2	8.82	1.10
ĺ	19.0	27	15.0	9.47	0.84	14.5	9.29	0.91	14.0	9.07	1.00	13.4	8.80	1.10
l	19.5	27	15.1	9.45	0.84	14.7	9.27	0.91	14.1	9.05	1.00	13.6	8.79	1.10
ĺ	22.0	30	15.9	9.33	0.85	15.4	9.16	0.92	14.9	8.95	1.01	14.3	8.69	1.11
	24.0	32	16.5	9.20	0.85	16.0	9.03	0.93	15.5	8.83	1.02	14.9	8.59	1.12

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat

 On the figure the mark ______ show the max. at standard conditions.

 On the figure the mark _______ show rated capacity and rated coefficient of power input.

 However the max. capacity is not guaranteed, except at standard condition.

 On the tables _______ show rated capacity and rated coefficient of power input.

 SHC is based on each EWB and EDB

 SHC* = 9LC correction for other dry bulb

 SHC* = 0.02 x AFR (m³/min.) x (1−BF) x (DB*–EDB)

 Add SHC* to SHC.

 Capacities are based on following conditions:

 2

- 3. 4.
- 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 :5.0 m Local difference :0 m

- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
 The value contains less than 5% error acording to indoor unit type.
 Heating capacity include the drop of frost formation.
 Air flow rate and BF are tabulated below.

(Pair)

5

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

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

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

(i uii)				
Model	FCQH140C	FCQ140C		
Cooling	4.98	5.36		
Heating	4.98	5.69		
(Triple)				
Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70

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

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Caution:

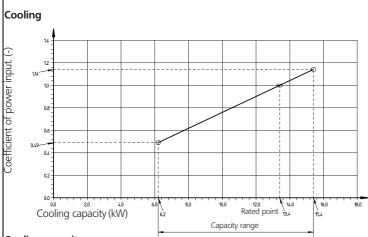
TC and SHC are shown by kW

(Twin)						
Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2		
AFR (BF)	15.5x2 (0.19x2)	19x2 (0.11x2)	17x2 (0.1x2)	19x2 (0.08x2)		
(Double twin)						
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4		
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)		

(Twin)				
Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2
Cooling	5.36	5.21	5.25	5.25
Heating	5.55	5.64	5.70	5.63
(Double twin)				
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70

5 - 2 Cooling capacity tables

RZQS140C (Pair)



Cooling capacity

	Indoor						Outdoor te	emp. (°CDB)					
EWB	EDB		25			30			35			40	
(°C)	(90)	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
(()	(()	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)	(kW)	(kW)	(-)
16.0	22	12.3	8.29	0.76	12.2	8.37	0.89	12.5	8.73	0.99	12.1	8.46	1.09
18.0	25	14.0	9.09	0.83	13.6	8.91	0.91	13.1	8.70	1.00	12.6	8.44	1.10
19.0	27	14.4	9.06	0.84	13.9	8.89	0.91	13.4	8.68	1.00	12.8	8.42	1.10
19.5	27	14.5	9.05	0.84	14.1	8.87	0.91	13.5	8.66	1.00	13.0	8.41	1.10
22.0	30	15.2	8.93	0.85	14.7	8.77	0.92	14.3	8.57	1.01	13.7	8.32	1.11
24.0	32	15.8	8.81	0.85	15.3	8.64	0.93	14.8	8.45	1.02	14.3	8.22	1.12

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NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
 On the figure the mark _____ show the max, at standard conditions. On the figure the mark _____ show rated capacity and rated coefficient of power input. However the max capacity is not guaranteed, except at standard condition.
 On the tables _____ show rated capacity and rated coefficient of power input.
 SHC is based on each EWB and EDB SHC* = 0.02 x AFR (m³/min.) x (1–BF) x (DB*–EDB) Add SHC* to SHC.
 Capacities are based on following conditions:

- 5.
- Add SHC* to SHC. Capacities are based on following conditions: Outdoor air: 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating) Corresponding refrigerant piping length :7.5 m Lovel difference : 0 m
- Coefficient of power input is the percentage when the rated valve is defined as 1.00.
 The value contains less than 5% error acording to indoor unit type.
 Heating capacity include the drop of frost formation.
 Air flow rate and BF are tabulated below.

- (Pair

)	
	FBQ140
AFR	35
(BF)	(0.14)

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

RZQS140C7
FBQ140B8
4.97kW
4.99kW

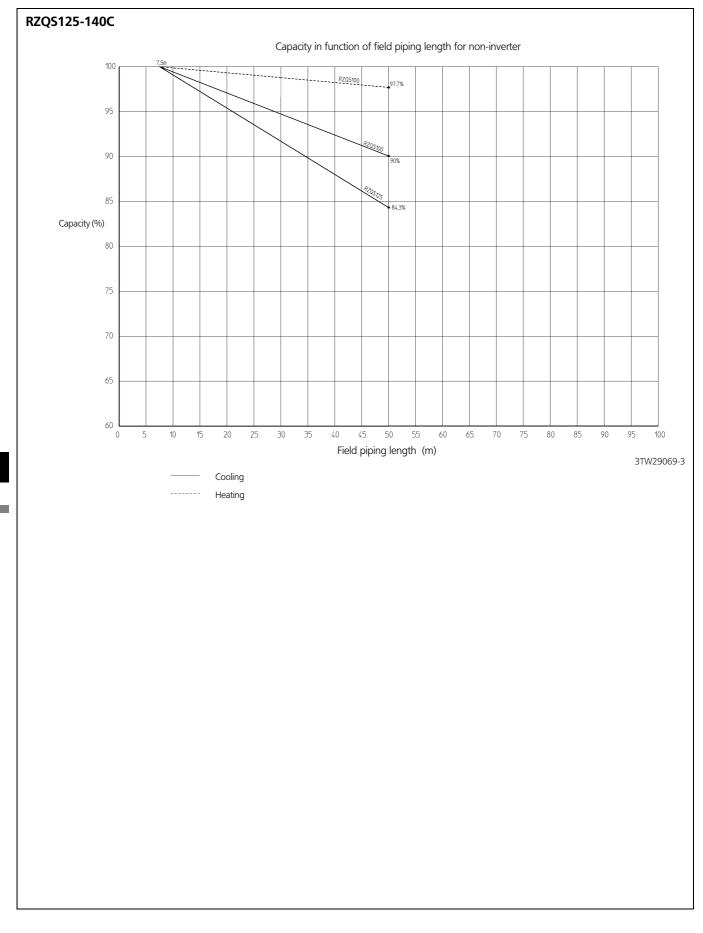
SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	(0,
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	()
CDL		()
CPI:	Coefficient of power input.	(-)

Caution:

TC and SHC are shown by kW

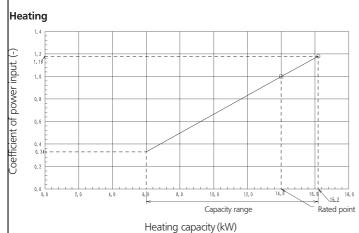
5 - 2 Cooling capacity tables



5

5 - 3 Heating capacity tables

RZQS125C (Pair + twin/triple/double twin)



Heating capacity

Indeor		Outdoor temp. (°CWB)										
EDB	-	15	-	10	-	-5		0		6	1	0
(90)	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
(()	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)
16.0	8.83	1.05	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	8.82	1.10	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	8.81	1.14	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	8.81	1.16	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	8.80	1.18	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	8.79	1.22	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
 On the figure the mark show the max, at standard conditions. On the figure the mark show rated capacity and rated coefficient of power input. However the max, capacity is not guaranteed, except at standard condition.
 On the tables show rated capacity and rated coefficient of power input.
 SHC is based on each EVB and EDB SHC* = SHC correction for other dry bulb SHC* = 0.02 x AFR (m³/min.) x (1–BF) x (DB*–EDB) Ard SHC* is to SHC
- 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)
- (neating) Corresponding refrigerant piping length : 5.0 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)

P	dir)					
	Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FDQ125
	AFR (BF)	32.5 (0.19)	27.5 (0.19)	35 (0.14)	30 (0.13)	45 (0.25)
Т	riple)					
	Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3	
	AFR	12.5x3	12x3	14x3	13x3	

(T

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

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

(Pair)					
Model	FCQH125C	FCQ125C	FBQ125	FHQ125	FDQ125
Cooling	3.88	4.14	4.40	4.58	4.45
Heating	4.11	4.52	4.24	4.96	4.08
(Triple)					
Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3	
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: EWB: EDB:	Bypass factor Entering wet bulb temp. Entering dry bulb temp.	(°CWB) (°CDB)
TC: SHC:	Total cooling/heating capacity Sensible heating capacity	(kW) (kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:

TC and SHC are shown by kW

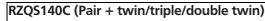
(Twin)				
Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR (BF)	13.5x2 (0.21x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)
(Double twin)				
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

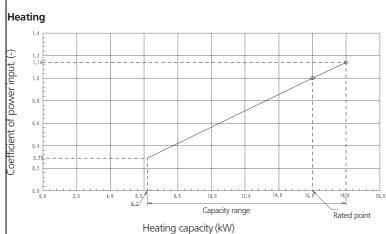
(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2			
Cooling	4.36	4.41	4.48	4.76			
Heating	4.76	4.42	4.42	4.92			
(Double twin)							
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4			
Cooling	4.36	4.41	4.48	4.76			
Heating	4.76	4.42	4.42	4.92			

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5 - 3 Heating capacity tables





Heating capacity

Indoor		Outdoor temp. (°CWB)										
EDB	-	-15	-	10	-	-5		0		6	1	10
(90)	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
(()	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)
16.0	9.82	1.05	10.8	1.11	11.9	1.16	12.9	1.22	16.0	0.92	17.3	0.97
18.0	9.80	1.10	10.8	1.15	11.8	1.21	12.9	1.27	16.0	0.96	17.2	1.01
20.0	9.79	1.14	10.8	1.20	11.8	1.26	12.9	1.32	16.0	1.00	17.2	1.05
21.0	9.79	1.16	10.8	1.22	11.8	1.28	12.8	1.34	16.0	1.02	17.2	1.07
22.0	9.78	1.18	10.8	1.24	11.8	1.31	12.8	1.37	16.0	1.04	17.2	1.09
24.0	9.77	1.22	10.8	1.29	11.8	1.35	12.8	1.42	16.0	1.08	17.2	1.13

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat On the figure the mark show the max. at standard conditions. On the figure the mark show rated capacity and rated coefficient of power input. However the max. capacity is not guaranteed, except at standard condition. On the tables show rated capacity and rated coefficient of power input. SHC* is based on each EWB and EDB SHC* = 10.2 x AFR (m³/min) x (1-BF) x (DB*-EDB) Add SHC* to SHC. Capacities are based on following conditions: 2
- 3 4.
- 5.
- Capacities are based on following conditions: Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB
- Outdoor air : 53 % KH. nowever, the condition on nominal capacity is 7° CDB/6° CWB (heating)
 Corresponding refrigerant piping length : 5.0 m
 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)

(r)	aii)				
	Model	FCQH140C	FCQ140C		
	AFR	32.5	27.5		
	(BF)	(0.20)	(0.22)		
(T	riple)				
	Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
	AFR	12.5x3	12x3	14x3	13x3
	(BF)	(0.21x3)	(0.16x3)	(0.15x3)	(0.1x3)

10. Rated power input of each model is tabulated below

(Pair)				
Model	FCQH140C	FCQ140C		
Cooling	4.98	5.36		
Heating	4.98	5.69		
(Triple)			-	
Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.36	5.12	5.21	5.25
Heating	5.55	5.70	5.64	5.70
	•			

	SYMBOLS	
AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	(90140)
EWB: EDB:	Entering wet bulb temp.	(°CWB)
EDB: TC:	Entering dry bulb temp. Total cooling/heating capacity	(°CDB) (kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(KVV) (KW)
	(comp.+indoor+outdoor fan motor)	
CPI:	Coefficient of power input.	(-)

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Caution:

TC and SHC are shown by kW

(Twin)				
Model	FCQ71Cx2	FBQ71x2	FHQ71x2	FAQ71x2
AFR (BF)	15.5x2 (0.19x2)	19x2 (0.11x2)	17x2 (0.1x2)	19x2 (0.08x2)
(Double twin)				
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

(Twin) Model FCQ71Cx2

Cooling	5.36	5.21	5.25	5.25	
Heating	5.55	5.64	5.70	5.63	
(Double twin)					
Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4	
Cooling	5.36	5.12	5.21	5.25	
Heating	5.55	5.70	5.64	5.70	

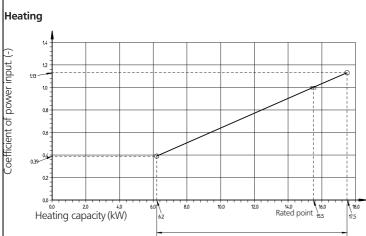
FBQ71x2

FHQ71x2

FAQ71x2

5 - 3 Heating capacity tables

RZQS140C (Pair)



Heating capacity

Indeer		Outdoor temp. (°CWB)										
EDB	_	15	-	10	-	-5	()	(5	1	0
(°C)	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
(()	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)	(kW)	(-)
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

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NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
 On the figure the mark o show the max, at standard conditions. On the figure the mark is show rated capacity and rated coefficient of power input. However the max, capacity is not guaranteed, except at standard condition.
 On the tables is show rated capacity and rated coefficient of power input.
 SHC is based on each EVMB and EDB SHC* = 0.02 x AFR (m³/min.) x (1-BF) x (DB*-EDB) Add SHC* to SHC.
 Capacities are based on following conditions:

(

- Capacities are based on following conditions: Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating) 5.

- (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.

P	air)	
		FBQ140
	AFR	35
	(BF)	(0.14)

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

(Pair)					
	Outdoor	RZQS140C7			
	Indoor	FBQ140B8			
	Cooling	4.97kW			
	Heating	4.99kW			

-	
	SYMBOLS

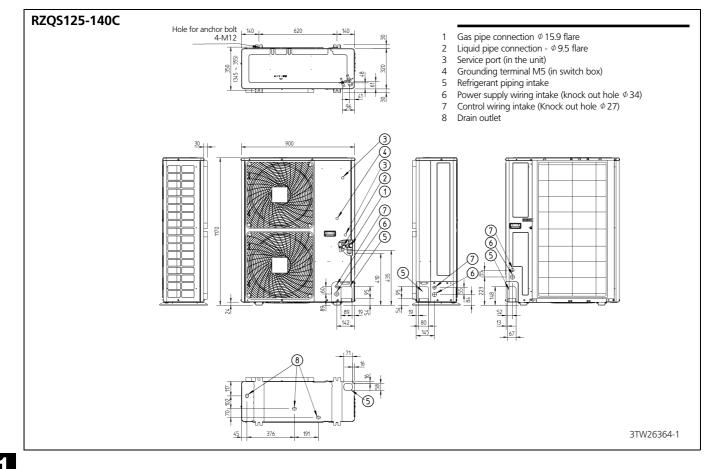
AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	()
CPI:	Coefficient of power input.	(-)
C	coefficient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

Caution:

TC and SHC are shown by kW

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

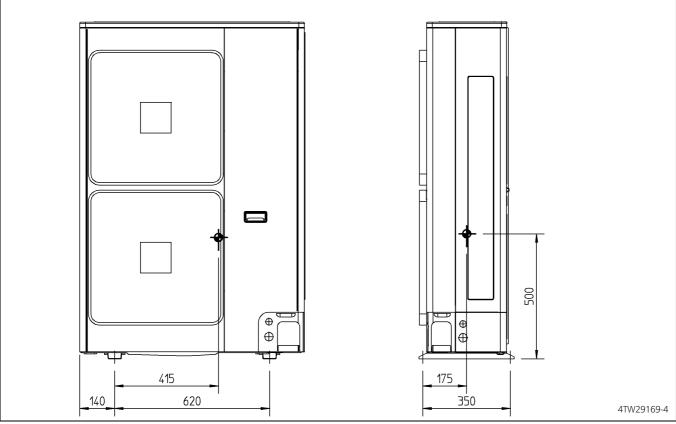


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6 Dimensional drawing & centre of gravity

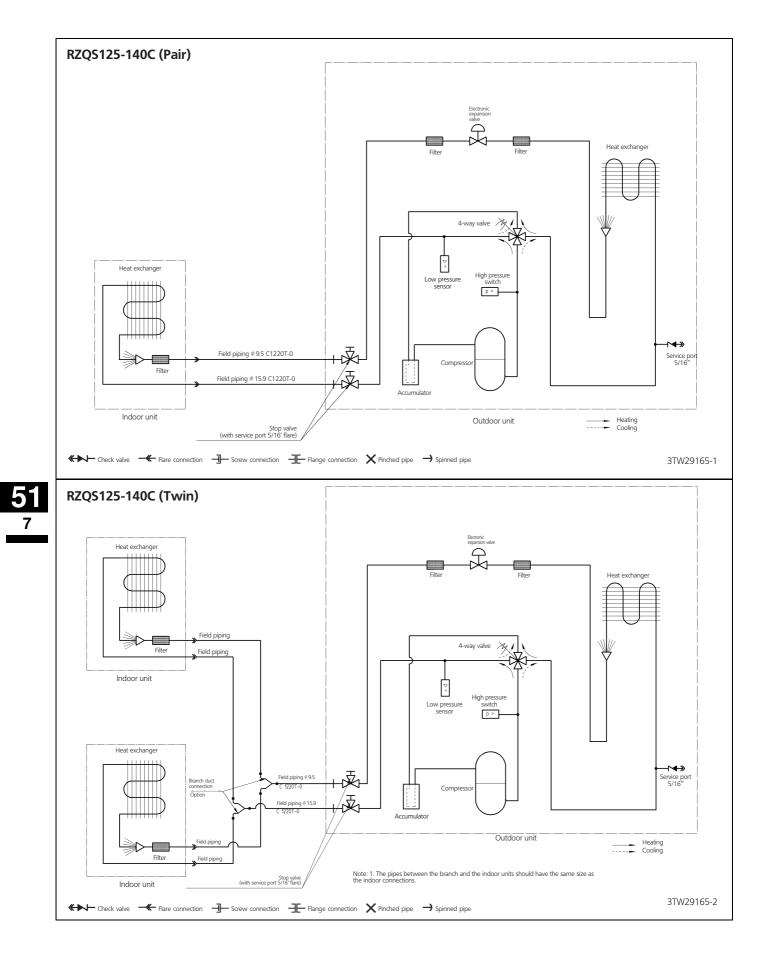
6 - 2 Centre of gravity

RZQS125-140C

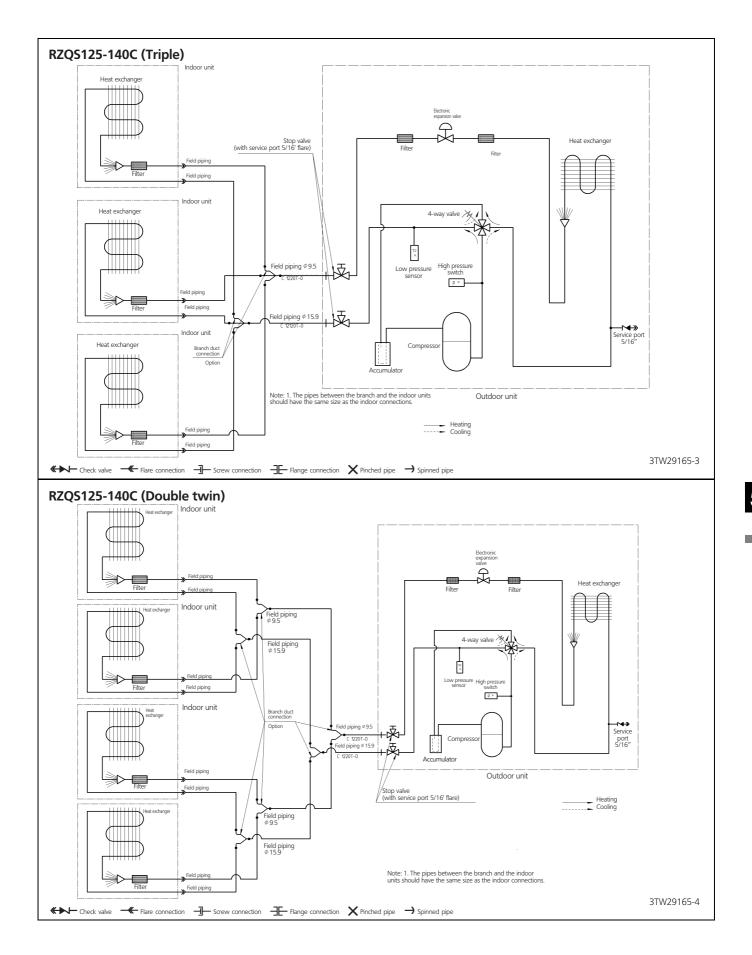




7 Piping diagram



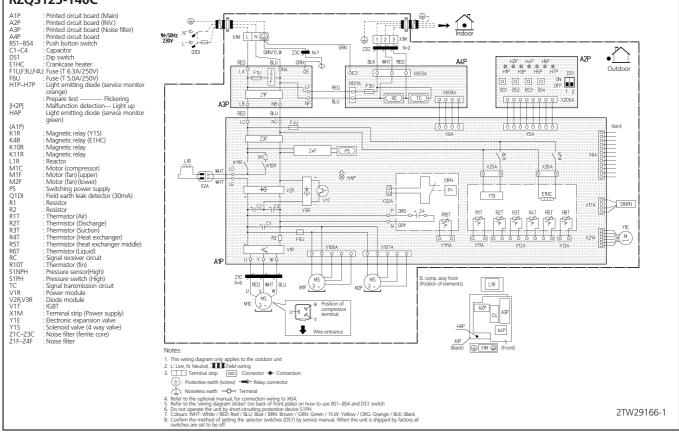
7 Piping diagram



8 Wiring diagram

8 - 1 Wiring diagram

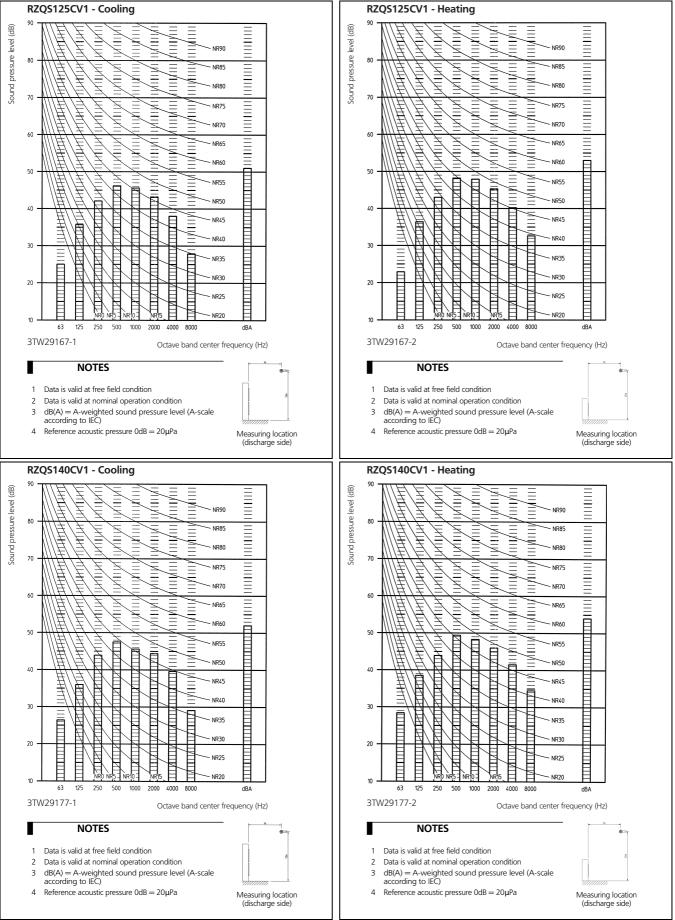
RZQS125-140C



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9 Sound data

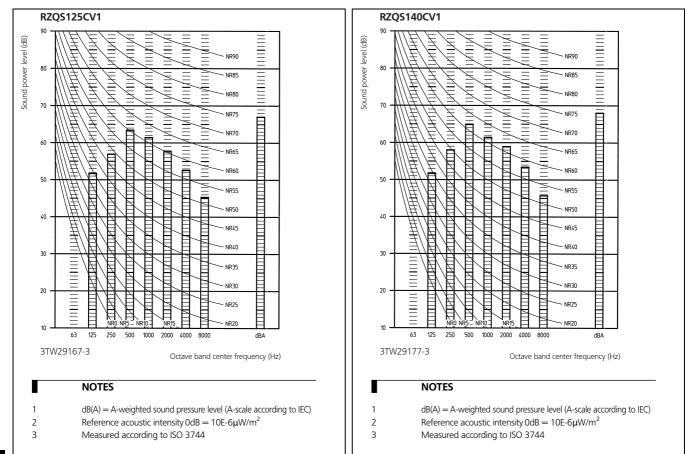
9 - 1 Sound pressure spectrum





9 Sound data

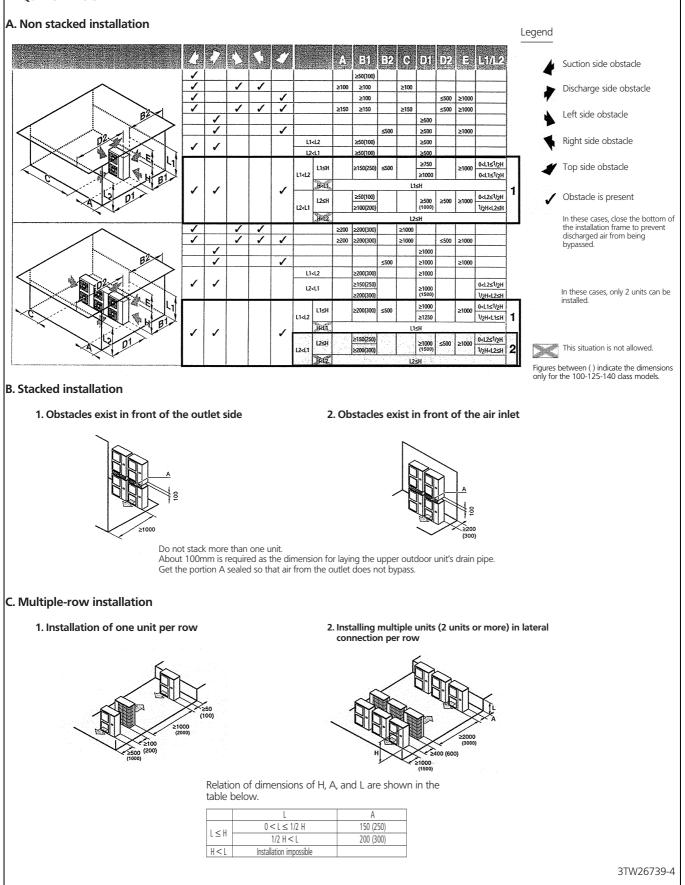
9 - 2 Sound power spectrum



10 Installation

10 - 1 Installation method

RZQS125~140C



11 Operation range

