DAIKIN

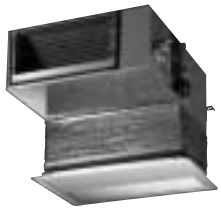
technical data

VRV II Systems

FXSQ-M7V1B

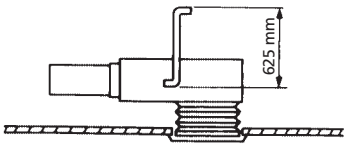
Concealed ceiling unit

FXSQ-M7V1B
Concealed ceiling unit

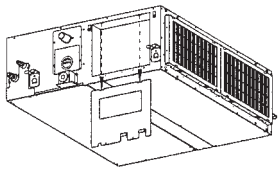


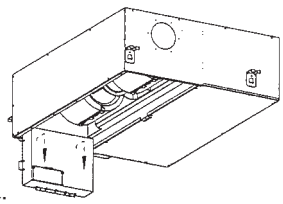
1 Features

- Offers freedom of development for the body, air outlets and inlets
- A comfortable air flow can be achieved by installing the discharge outlet in a high load zone - where personnel tend to congregate - and areas close to windows, which can be affected by external temperature changes
- Unrestricted layout and easy design
- Low sound pressure levels. The quiet operation of this model is ideal for exclusive stores and offices
- All models feature thin design for easy installation in narrow ceiling voids of minimum 350mm
- High external static pressure facilitates unit use with flexible ducts of varying length
- Long life filter fitted as standard
- Drain pump with lift up to 625mm fitted as standard



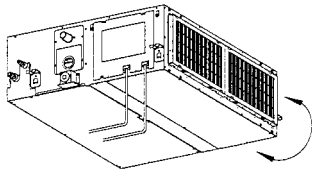
- The switch box can be reached from the side or from the bottom side of the unit for easy servicing

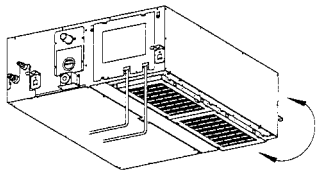


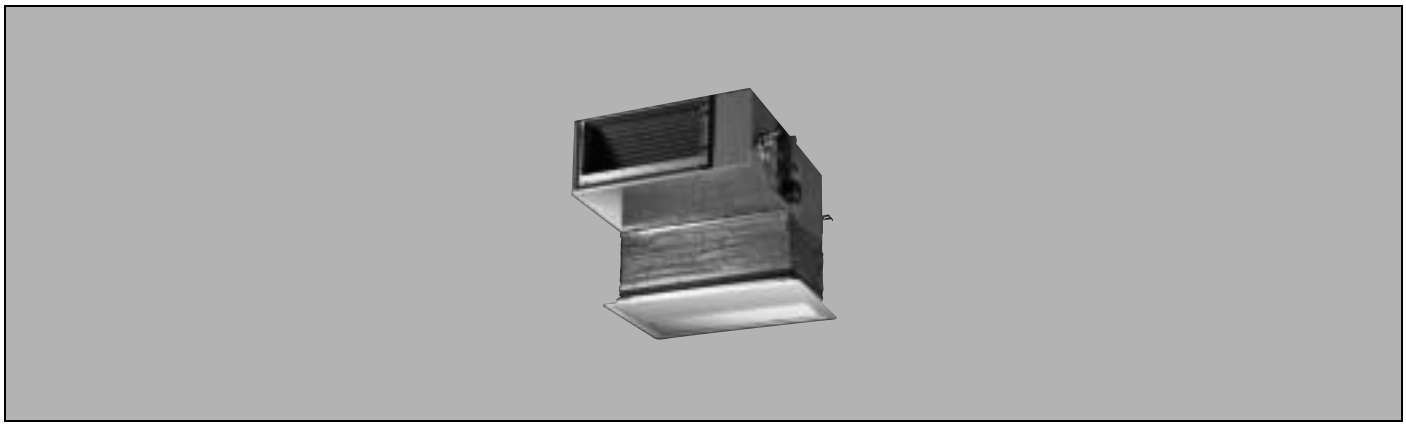


From the outside of the switch box: remove the switch box cover

- Simple modification from rear to bottom suction







2 Specifications

2-1 Technical specifications

FXSQ-M7V1B				20	25	32	40	50	63	80	100	125
COOLING CAPACITY (1)			kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
HEATING CAPACITY (2)			kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
NOMINAL INPUT	Cooling		W	110		114	127	143	189	234	242	321
	Heating		W	90		94	107	123	169	214	222	301
DIMENSIONS	Unit	HxWxD	mm	300x550x800			300x700x800		300x1,000x800	300x1,400x800		
	Decoration panel	HxWxD	mm	55x650x500			55x800x500		55x1,100x500	55x1,500x500		
WEIGHT	Unit		kg	30			30	31	41	51		52
	Decoration panel		kg	3			3.5		4.5	6.5		
CASING				galvanised steel plate								
COLOUR	Decoration panel			white (10Y9/0.5)								
SOUND LEVEL	Sound pressure	high	dB(A)	32		33	33	35	35	37	38	40
		low	dB(A)	28		28	29	31	30	31	33	35
	Sound power		dB(A)	50		51	56	58	56	55	56	65
FAN	Air flow rate	high	m^3/h	540		570	690	900	1,260	1,620	1,680	2,280
		low	m^3/h	390		420	540	660	930	1,200	1,230	1,680
	Type			sirocco fan								
	Model			D18H3AA1V1			D18H2AC1V1	D18H2AB1V1	2D18H2AB1V1	3D18H2AH1V1		3D18H2AG1V1
	Motor output		W	50			65	85	125	135		225
	External static pressure (max.) H/S/L		Pa	125/105/96 (4)		104/88/78 (4)	116/98/85 (4)	136/114/99 (4)	123/111/98 (4)	141/125/- (5)	141/125/- (5)	109/93/- (5)
	Drive			direct drive								
HEAT EXCHANGER	Rows x stages x fin pitch		mm	3x14x1.75								
	Face area		m^2	0.088			0.132		0.221	0.338		
AIR FILTER				resin net with mold resistant								
REFRIGERANT CONTROL				electronic expansion valve								
TEMPERATURE CONTROL				microprocessor thermostat for cooling and heating								
PIPING CONNECTIONS	Liquid	flare	mm	ø 6.4					ø 9.5			
	Gas	flare	mm	ø 12.7					ø 15.9			
	Drain		mm	VP25, external diameter 32, internal diameter 25								
SOUND ABSORBING THERMAL INSULATION				foamed polyurethane								

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NOTES

1 Nominal cooling capacities are based on:
- Indoor air temperature: 27°CDB, 19°CWB
- Outdoor temperature: 35°CDB
- Equivalent refrigerant piping: 8m
- Level difference: 0m

2 Nominal heating capacities are based on:
- Indoor air temperature: 20°CDB
- Outdoor temperature: 7°CDB, 6°CWB
- Equivalent refrigerant piping: 8m
- Level difference: 0m

3 Capacities are net including a deduction for cooling (an addition for heating) for indoor fan motor heat.

4 The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard - Low static pressure.

5 The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard.

6 The sound pressure values are mentioned for a unit installed with rear suction.

2 Specifications

2-2 Electrical specifications

FXSQ-M7V1B			20	25	32	40	50	63	80	100	125
CURRENT	Minimum circuit amps (MCA)	A	0.5			0.6	0.9	1.1	1.4	1.5	2.0
	Maximum fuse amps (MFA) (5)		16								
POWER SUPPLY		V1	1 ~, 50Hz, 230V								
VOLTAGE RANGE	Min~max	V	207~253								
INDOOR FAN MOTOR	Fan motor rated output	W	50			65	85	125	225		225
	Full load amps (FLA)	A	0.4			0.5	0.7	0.9	1.1	1.2	1.6

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NOTES

1 Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2 Maximum allowable voltage range variation between phases is 2%.
3 MCA/MFA:
MCA = 1.25 x FLA
MFA ≤ 4 x FLA
next lower standard fuse rating minimum 16A.
4 Select wire size based on the MCA.
5 Instead of a fuse, use a circuit breaker
6 For more details concerning conditional connections, see http://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

2-3 Safety device settings

FXSQ-M7V1B		20	25	32	40	50	63	80	100	125
PC BOARD FUSE		250V 10A								
FAN MOTOR THERMAL FUSE	°C	$152^{\pm 2}$						-		
FAN MOTOR THERMAL PROTECTOR	°C	-						OFF:$130^{\pm 5}$, (ON: $80^{\pm 20}$)	OFF:$130^{\pm 5}$, (ON: $80^{\pm 20}$)	OFF:$130^{\pm 5}$, (ON: $80^{\pm 20}$)
DRAIN PUMP FUSE	°C	169								

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3 Accessories

FXSQ-M7V1B	20	25	32	40	50	63	80	100	125
DECORATION PANEL	BYBS32DJW1			BYBS45DJW1		BYBS71DJW1	BYBS125DJW1		
SERVICE ACCESS PANEL	KTBJ25K36W			KTBJ25K56W		KTBJ25K80W	KTBJ25K160W		
HIGH EFFICIENCY FILTER 65% (1)	KAFJ252L36			KAFJ252L56		KAFJ252L80	KAFJ252L160		
HIGH EFFICIENCY FILTER 90% (1)	KAFJ253L36			KAFJ253L56		KAFJ253L80	KAFJ253L160		
FILTER CHAMBER FOR BOTTOM SUCTION	KAJ25L36D			KAJ25L56D		KAJ25L80D	KAJ25L160D		
FILTER CHAMBER FOR REAR SUCTION	KAJ25L36B			KAJ25L56B		KAJ25L80B	KAJ25L160B		
AIR SUCTION CANVAS	KSA-25K36			KSA-25K56		KSA-25K80	KSA-25K160		
SCREENING DOOR / BLIND BOARD	KBBJ25K36			KBBJ25K56		KBBJ25K80	KBBJ25K160		
AIR DISCHARGE ADAPTER FOR ROUND DUCT	KDAJ25K36			KDAJ25K56		KDAJ25K71	KDAJ25K140		

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NOTES

1 If installing a high efficiency filter in the unit, an assembly chamber for either bottom or rear suction is required.

4 Control systems

4-1 Individual control systems

WIRED REMOTE CONTROL		BRC1D527
INFRARED REMOTE CONTROL	Heat pump	BRC4C62
	Cooling only	BRC4C64
SIMPLIFIED REMOTE CONTROL		BRC2A51
REMOTE CONTROL FOR HOTEL USE		BRC3A61

4-2 Centralised control systems

CENTRALISED REMOTE CONTROL	DCS302C51
UNIFIED ON/OFF CONTROL	DCS301B51
SCHEDULE TIMER	DST301B51

4-3 Others

WIRING ADAPTER (INTERLOCK FOR FRESH AIR INTAKE FAN)	KRP1B61
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)	KRP2A51
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)	KRP4A51
REMOTE SENSOR	KRCS01-1
ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)	KJB311A
ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)	KJB212A
NOISE FILTER (FOR ELECTROMAGNETIC INTERFACE USE ONLY)	KEK26-1
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT)	DTA104A61
OPTION PCB FOR EXTERNAL ELECTRIC HEATER, HUMIDIFIER AND/OR HOUR METER (*1) (*2) (*3)	EKRP1B2

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NOTES

1 Electrical heater and humidifier are field supply. These parts should not be installed inside the equipment. (Cf. installation manual on EKRP1B2)

2 If installing an electric heater, an option PCB for external electric heater (EKRP1B2) per indoor unit is required

3 An electric heater cannot be used for VRV system cooling only

5 Capacity tables

5-1 Cooling capacity

TC: Total capacity,kW – SHC: Sensible capacity,kW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	2.2	10.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.9	1.9
		12.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.9	1.9
		14.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.8	1.9
		16.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.8	1.8
		18.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.7	1.8
		20.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.7	1.8
		21.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.7	1.8
		23.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.9	2.6	1.7
		25.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.6	1.8	2.6	1.7
		27.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.5	1.8	2.6	1.7
		29.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.5	1.8	2.5	1.7
		31.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.5	1.7
		33.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.9	2.4	1.8	2.5	1.7
		35.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.4	1.7
		37.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.3	1.8	2.4	1.7
		39.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.2	1.8	2.3	1.7	2.3	1.6
25	2.8	10.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.7	2.3
		12.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.6	2.2
		14.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.6	2.2
		16.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.5	2.2
		18.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.5	2.2
		20.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.4	2.1
		21.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.3	3.4	2.1
		23.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.3	2.2	3.4	2.1
		25.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.3	2.2	3.3	2.1
		27.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.2	2.2	3.3	2.1
		29.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.2	2.2	3.2	2.0
		31.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.1	2.1	3.2	2.0
		33.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.1	2.1	3.1	2.0
		35.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0
		37.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.2	3.0	2.1	3.0	2.0
		39.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.2	2.9	2.1	3.0	2.0
32	3.6	10.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.7	2.8
		12.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.7	2.7
		14.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.6	2.7
		16.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.6	2.7
		18.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.5	2.6
		20.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.4	2.6
		21.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.3	2.8	4.4	2.6
		23.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.2	2.7	4.3	2.6
		25.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.2	2.7	4.3	2.5
		27.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.1	2.6	4.2	2.5
		29.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.1	2.6	4.2	2.5
		31.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	4.0	2.6	4.1	2.5
		33.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	3.9	2.6	4.0	2.4
		35.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.8	2.7	3.9	2.6	4.0	2.4
		37.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.5	3.7	2.7	3.8	2.5	3.9	2.4
		39.0	2.4	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.4
40	4.5	10.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.9	3.6
		12.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.8	3.6
		14.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.8	3.5
		16.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.7	3.5
		18.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.6	3.5
		20.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.5	3.4
		21.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.4	3.3	5.5	3.4
		23.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.3	3.3	5.4	3.4
		25.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.2	3.2	5.3	3.3
		27.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.2	3.2	5.3	3.3
		29.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.1	3.2	5.2	3.3
		31.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	5.0	3.1	5.1	3.2
		33.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.8	3.6	4.9	3.1	5.0	3.2
		35.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.7	3.6	4.9	3.1	5.0	3.2
		37.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.7	3.5	4.8	3.0	4.9	3.1
		39.0	3.0	2.6	3.6	3.0	4.2	3.2	4.5	3.3	4.6	3.5	4.7	3.0	4.8	3.1

5 Capacity tables

5-1 Cooling capacity

TC: Total capacity.kW – SHC: Sensible capacity;kW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
50	5.6	10.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	7.4	4.4
		12.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	7.3	4.4
		14.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	7.2	4.3
		16.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	7.1	4.3
		18.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	7.0	4.3
		20.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	6.9	4.2
		21.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.7	4.0	6.8	4.2
		23.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.6	4.0	6.7	4.2
		25.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.5	4.0	6.6	4.1
		27.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.4	3.9	6.6	4.1
		29.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.3	3.9	6.5	4.0
		31.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.2	3.8	6.4	4.0
		33.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	6.0	4.3	6.1	3.8	6.3	3.9
		35.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	5.9	4.3	6.0	3.8	6.2	3.9
		37.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	5.8	4.3	5.9	3.7	6.1	3.9
		39.0	3.8	3.2	4.5	3.7	5.2	3.9	5.6	4.1	5.7	4.2	5.8	3.7	6.0	3.8
63	7.1	10.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	9.3	5.6
		12.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	9.2	5.6
		14.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	9.1	5.5
		16.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	9.0	5.4
		18.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	8.8	5.3
		20.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	8.7	5.3
		21.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.5	5.6	8.7	5.2
		23.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.4	5.5	8.5	5.2
		25.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.3	5.5	8.4	5.1
		27.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.1	5.4	8.3	5.1
		29.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	8.0	5.3	8.2	5.1
		31.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	7.9	5.3	8.1	5.0
		33.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.6	5.5	7.8	5.2	7.9	5.0
		35.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.5	5.5	7.7	5.2	7.8	4.9
		37.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.4	5.4	7.5	5.2	7.7	4.9
		39.0	4.8	4.1	5.7	4.7	6.6	4.9	7.1	5.2	7.2	5.4	7.4	5.1	7.6	4.9
80	9.0	10.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.8	6.9
		12.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.7	6.8
		14.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.5	6.7
		16.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.4	6.6
		18.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.2	6.5
		20.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.1	6.4
		21.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.8	6.8	11.0	6.4
		23.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.6	6.7	10.8	6.3
		25.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.5	6.6	10.7	6.2
		27.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.3	6.5	10.5	6.2
		29.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.2	6.5	10.4	6.1
		31.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	10.0	6.4	10.2	6.1
		33.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.6	6.6	9.8	6.3	10.1	6.1
		35.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.5	6.6	9.7	6.3	9.9	6.0
		37.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.3	9.3	6.5	9.5	6.2	9.8	6.0
		39.0	6.1	5.0	7.2	5.7	8.4	6.1	9.0	6.4	9.2	6.5	9.4	6.2	9.6	5.9
100	11.2	10.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	14.7	8.5
		12.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	14.5	8.4
		14.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	14.4	8.3
		16.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	14.2	8.2
		18.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	14.0	8.1
		20.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	13.8	8.0
		21.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.4	8.5	13.7	7.9
		23.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.2	8.4	13.5	7.8
		25.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	13.0	8.3	13.3	7.7
		27.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	12.8	8.1	13.1	7.7
		29.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	12.6	8.0	12.9	7.6
		31.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	12.4	8.0	12.7	7.5
		33.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.9	8.3	12.2	7.9	12.5	7.5
		35.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.8	8.2	12.1	7.8	12.3	7.5
		37.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.6	8.1	11.9	7.8	12.2	7.4
		39.0	7.6	6.2	9.0	7.1	10.5	7.6	11.2	7.9	11.4	8.1	11.7	7.7	12.0	7.3

5 Capacity tables

5-1 Cooling capacity

TC: Total capacity,kW – SHC: Sensible capacity,kW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
125	14.0	10.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	18.4	11.0
		12.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	18.2	10.9
		14.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	18.0	10.7
		16.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.7	10.6
		18.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.5	10.4
		20.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.2	10.3
		21.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.1	10.2
		23.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.5	10.6	16.9	10.1
		25.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.3	10.4	16.6	10.0
		27.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.1	10.3	16.4	9.9
		29.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	15.8	10.1	16.2	9.8
		31.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	15.6	10.0	15.9	9.6
		33.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	15.3	9.9	15.7	9.5
		35.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.8	10.2	15.1	9.8	15.4	9.4
		37.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.5	10.1	14.9	9.7	15.2	9.3
		39.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	10.0	14.3	9.9	14.6	9.6	15.0	9.2

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5 Capacity tables

5-2 Heating capacity

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
20	2.5	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
		-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
		-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
		-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
		-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
		-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
		-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
		-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
		-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
		-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
		-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
		0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.2
		3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
		5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
		7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
		9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
		11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
		13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2
		15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2
25	3.2	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
		-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
		-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
		-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1
		-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
		-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.5	2.4	2.4	2.4	2.4	2.4
		-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
		-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
		0.0	-0.7	3.0	3.0	3.0	3.0	3.0	2.8
		3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
		5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
		7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
		9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
		11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
		13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8
		15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8
32	4.0	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
		-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
		-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
		-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
		-12.6	-13.0	2.9	2.8	2.8	2.8	2.8	2.8
		-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
		-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
		-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
		-7.0	-7.6	3.2	3.2	3.2	3.2	3.2	3.2
		-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
		-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
		0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
		3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
		5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
		7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
		9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
		11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
		13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5
		15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5
40	5.0	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
		-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
		-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
		-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
		-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
		-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
		-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
		-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
		-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
		-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
		0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
		3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
		11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
		13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4
		15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4

5 Capacity tables

5-2 Heating capacity

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
		-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
		-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
		-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
		-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
		-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
		-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
		0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
		3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
		5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
		7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
		9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
		11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
		13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5
		15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5
63	8.0	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
		-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
		-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
		-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
		-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
		-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
		-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
		-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
		-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
		-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
		-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
		0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
		3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
		5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
		7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
		9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
		11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
		13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0
		15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0
80	10.0	-19.8	-20.0	5.9	5.9	5.9	5.9	5.9	5.8
		-18.8	-19.0	6.1	6.1	6.0	6.0	6.0	6.0
		-16.7	-17.0	6.4	6.4	6.4	6.4	6.4	6.4
		-14.7	-15.0	6.8	6.8	6.8	6.7	6.7	6.7
		-12.6	-13.0	7.1	7.1	7.1	7.1	7.1	7.1
		-10.5	-11.0	7.5	7.5	7.5	7.5	7.4	7.4
		-9.5	-10.0	7.7	7.7	7.6	7.6	7.6	7.6
		-8.5	-9.1	7.8	7.8	7.8	7.8	7.8	7.8
		-7.0	-7.6	8.1	8.1	8.1	8.1	8.0	8.0
		-5.0	-5.6	8.4	8.4	8.4	8.4	8.4	8.4
		-3.0	-3.7	8.8	8.8	8.7	8.7	8.7	8.7
		0.0	-0.7	9.3	9.3	9.3	9.3	9.3	8.7
		3.0	2.2	9.8	9.8	9.8	9.7	9.4	8.7
		5.0	4.1	10.2	10.1	10.0	9.7	9.4	8.7
		7.0	6.0	10.5	10.5	10.0	9.7	9.4	8.7
		9.0	7.9	10.8	10.6	10.0	9.7	9.4	8.7
		11.0	9.8	11.2	10.6	10.0	9.7	9.4	8.7
		13.0	11.8	11.3	10.6	10.0	9.7	9.4	8.7
		15.0	13.7	11.3	10.6	10.0	9.7	9.4	8.7
100	12.5	-19.8	-20.0	7.4	7.4	7.3	7.3	7.3	7.3
		-18.8	-19.0	7.6	7.6	7.6	7.5	7.5	7.5
		-16.7	-17.0	8.0	8.0	8.0	8.0	8.0	8.0
		-14.7	-15.0	8.5	8.5	8.4	8.4	8.4	8.4
		-12.6	-13.0	8.9	8.9	8.9	8.9	8.9	8.8
		-10.5	-11.0	9.4	9.3	9.3	9.3	9.3	9.3
		-9.5	-10.0	9.6	9.6	9.5	9.5	9.5	9.5
		-8.5	-9.1	9.8	9.8	9.7	9.7	9.7	9.7
		-7.0	-7.6	10.1	10.1	10.1	10.1	10.1	10.0
		-5.0	-5.6	10.6	10.5	10.5	10.5	10.5	10.5
		-3.0	-3.7	11.0	11.0	10.9	10.9	10.9	10.9
		0.0	-0.7	11.6	11.6	11.6	11.6	11.6	10.9
		3.0	2.2	12.3	12.3	12.2	12.1	11.7	10.9
		5.0	4.1	12.7	12.7	12.5	12.1	11.7	10.9
		7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
		9.0	7.9	13.5	13.3	12.5	12.1	11.7	10.9
		11.0	9.8	14.0	13.3	12.5	12.1	11.7	10.9
		13.0	11.8	14.1	13.3	12.5	12.1	11.7	10.9
		15.0	13.7	14.1	13.3	12.5	12.1	11.7	10.9

5 Capacity tables

5-2 Heating capacity

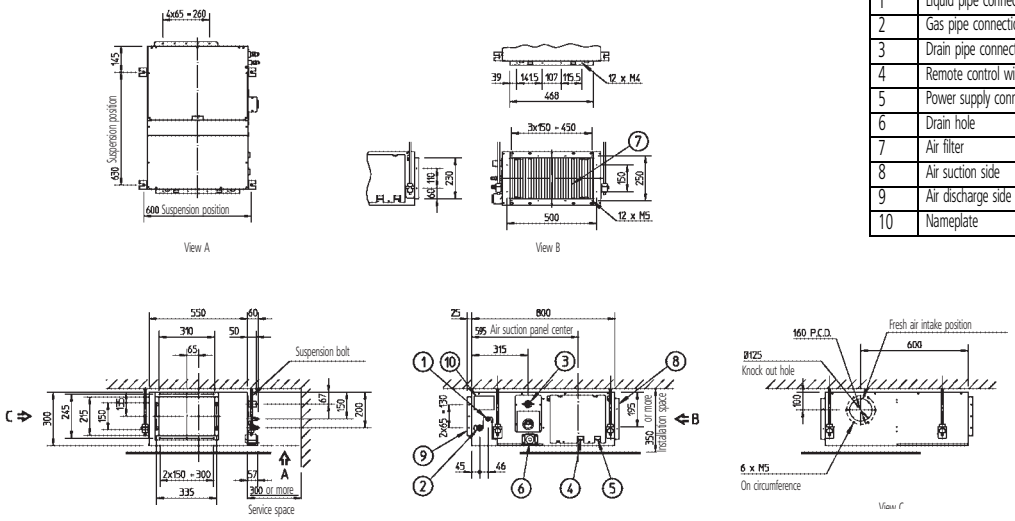
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
125	16.0	-19.8	-20.0	9.4	9.4	9.4	9.4	9.4	9.3
		-18.8	-19.0	9.7	9.7	9.7	9.7	9.6	9.6
		-16.7	-17.0	10.3	10.3	10.2	10.2	10.2	10.2
		-14.7	-15.0	10.9	10.8	10.8	10.8	10.8	10.7
		-12.6	-13.0	11.4	11.4	11.4	11.4	11.3	11.3
		-10.5	-11.0	12.0	12.0	11.9	11.9	11.9	11.9
		-9.5	-10.0	12.3	12.2	12.2	12.2	12.2	12.2
		-8.5	-9.1	12.5	12.5	12.5	12.5	12.4	12.4
		-7.0	-7.6	13.0	12.9	12.9	12.9	12.9	12.8
		-5.0	-5.6	13.5	13.5	13.5	13.4	13.4	13.4
		-3.0	-3.7	14.1	14.0	14.0	14.0	14.0	13.9
		0.0	-0.7	14.9	14.9	14.8	14.8	14.8	13.9
		3.0	2.2	15.7	15.7	15.7	15.5	15.0	13.9
		5.0	4.1	16.3	16.2	16.0	15.5	15.0	13.9
		7.0	6.0	16.8	16.8	16.0	15.5	15.0	13.9
		9.0	7.9	17.3	17.0	16.0	15.5	15.0	13.9
		11.0	9.8	17.9	17.0	16.0	15.5	15.0	13.9
		13.0	11.8	18.1	17.0	16.0	15.5	15.0	13.9
		15.0	13.7	18.1	17.0	16.0	15.5	15.0	13.9

3TW25512-2

6 Dimensions

6-1 Dimensional drawings

FXSQ20-32M7V1B



Nr.	Name	Description
1	Liquid pipe connection	ø6.4 flare connection
2	Gas pipe connection	ø12.7 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

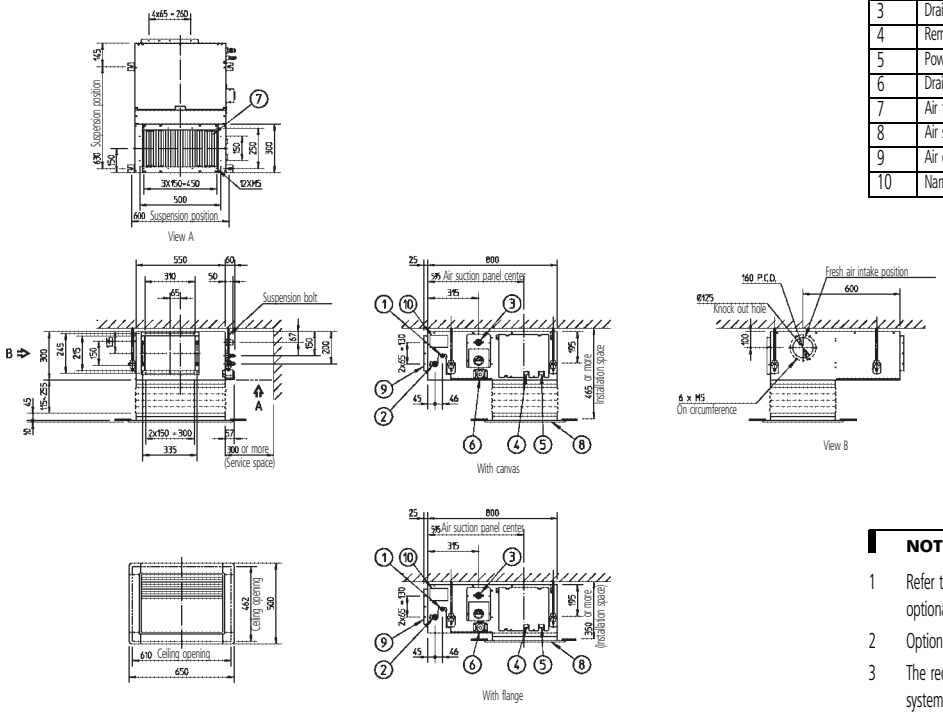
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 The required ceiling depth varies according to the configuration of the specific system.

3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
(Refer to the 'filter installation method' drawing).

3TW25684-1

WITH CANVAS



Nr.	Name	Description
1	Liquid pipe connection	ø6.4 flare connection
2	Gas pipe connection	ø12.7 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS32DJW1 (light ivory white 10Y9/0.5).

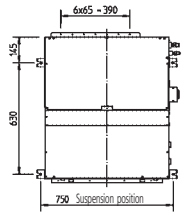
3 The required ceiling depth varies according to the configuration of specific system.

3TW25684-2

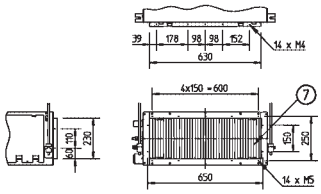
6 Dimensions

6-1 Dimensional drawings

FXSQ40,50M7V1B

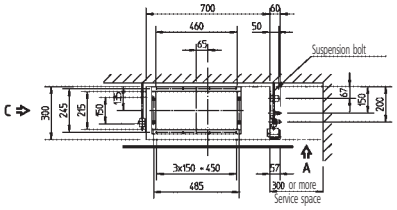


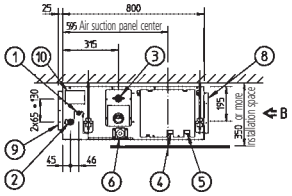
View A

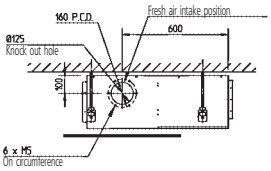


View B

Nr.	Name	Description
1	Liquid pipe connection	ø6.4 flare connection
2	Gas pipe connection	ø12.7 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	







View C

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

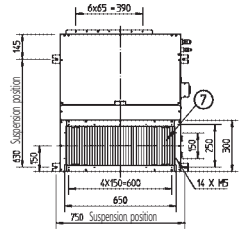
2 The required ceiling depth varies according to the configuration of the specific system.

3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
(Refer to the 'filter installation method' drawing).

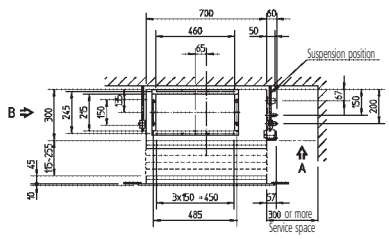
3TW25714-1

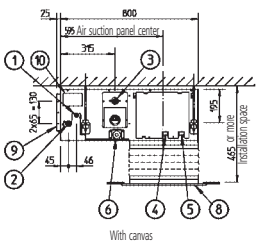
WITH CANVAS

Nr.	Name	Description
1	Liquid pipe connection	ø6.4 flare connection
2	Gas pipe connection	ø12.7 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

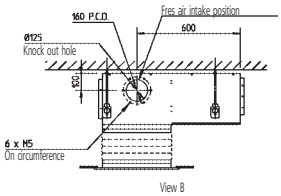


View A

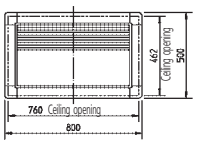


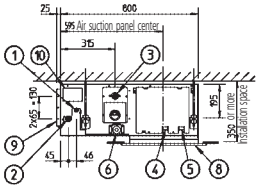


With canvas



View B





With flange

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS45DJW1 (light ivory white 10Y9/0.5).

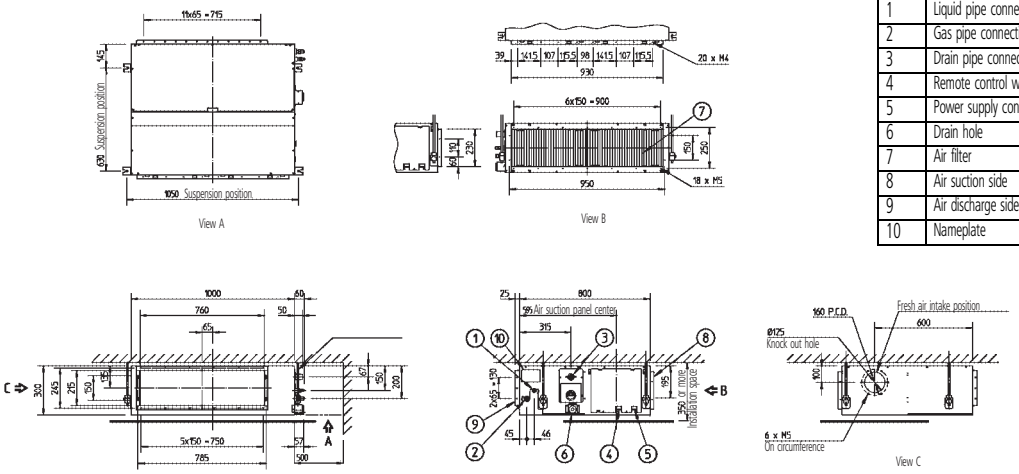
3 The required ceiling depth varies according to the configuration of specific system.

3TW25714-2

6 Dimensions

6-1 Dimensional drawings

FXSQ63M7V1B



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

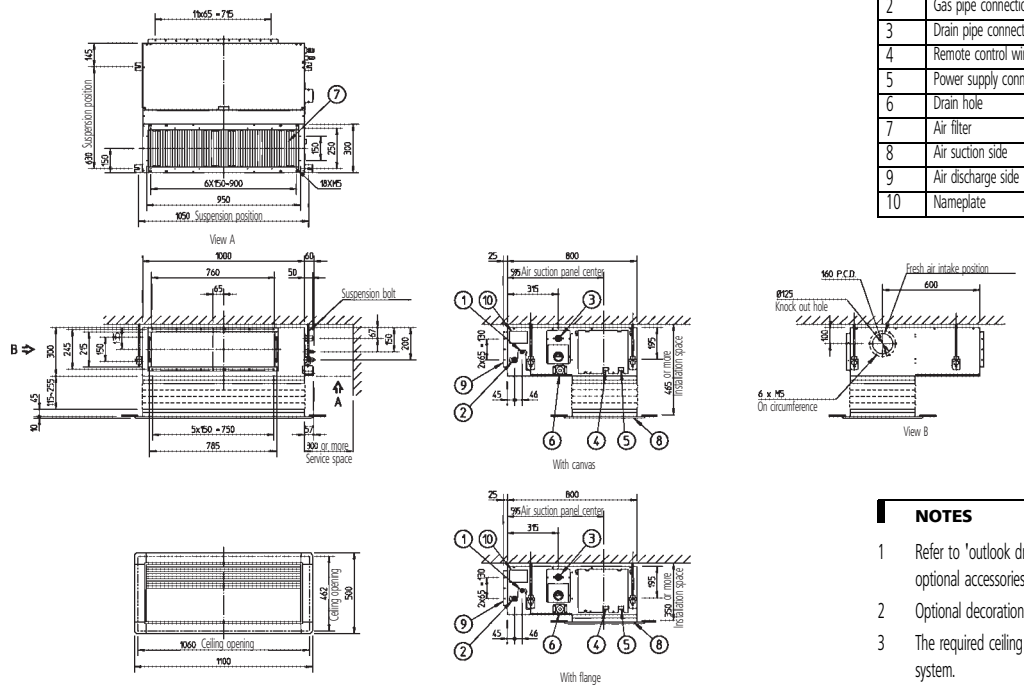
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 The required ceiling depth varies according to the configuration of the specific system.

3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
(Refer to the 'filter installation method' drawing).

3TW25734-1

WITH CANVAS



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5).

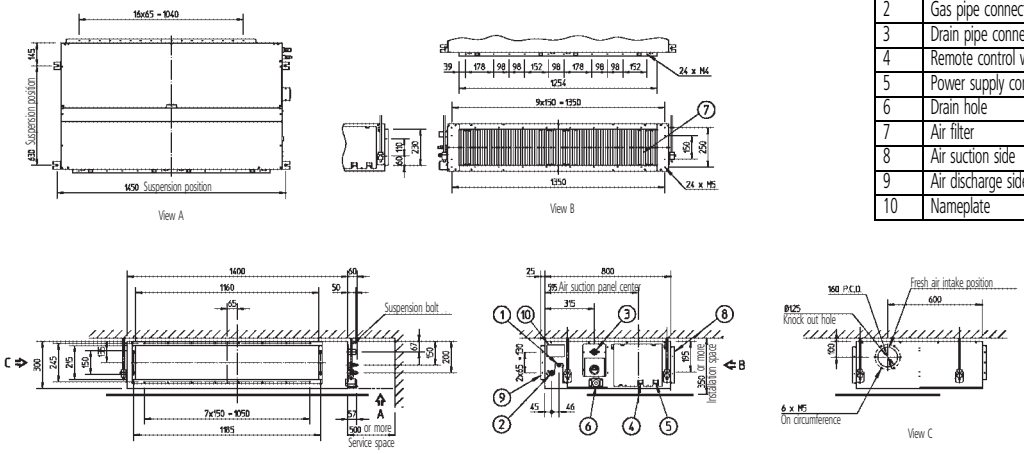
3 The required ceiling depth varies according to the configuration of specific system.

3TW25734-2

6 Dimensions

6-1 Dimensional drawings

FXSQ80,100,125M7V1B



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

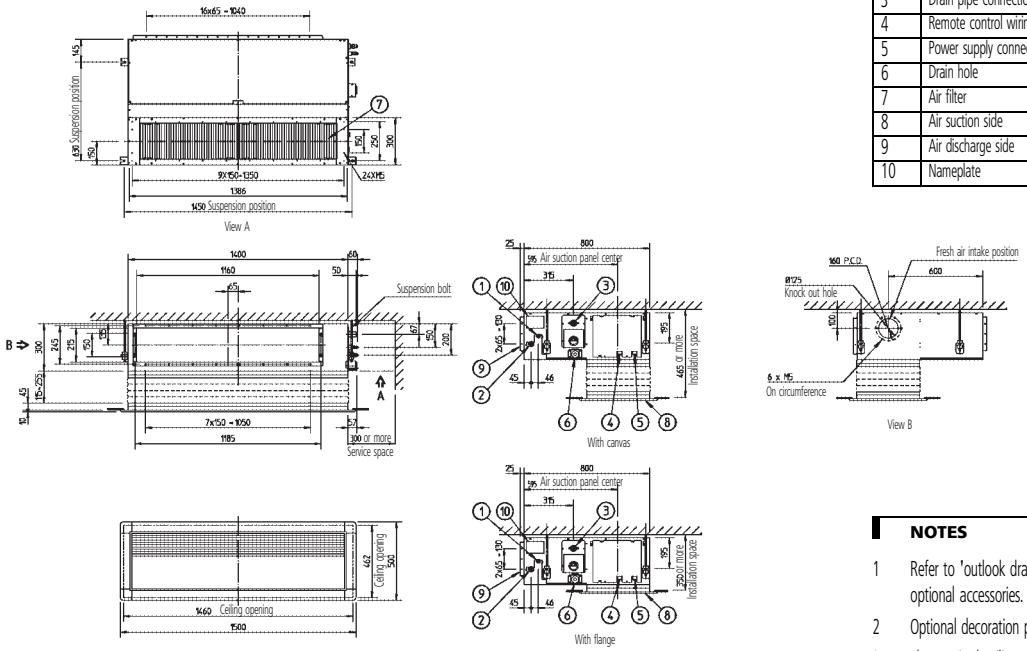
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 The required ceiling depth varies according to the configuration of the specific system.

3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
Refer to the 'filter installation method' drawing).

3TW25744-1

WITH CANVAS



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS125JW1 (light ivory white 10Y9/0.5).

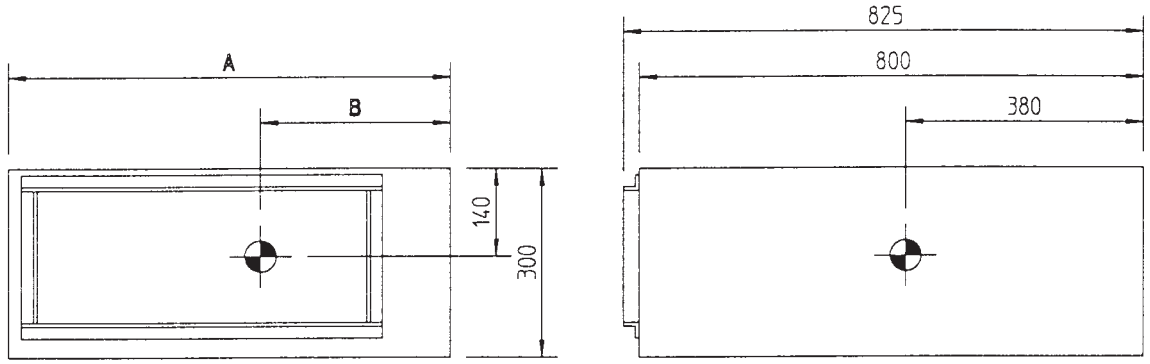
3 The required ceiling depth varies according to the configuration of specific system.

3TW25744-2

6 Dimensions

6-2 Centre of gravity

FXSQ-M7V1B

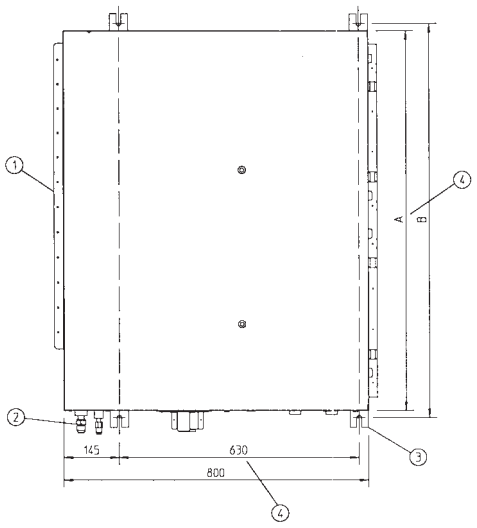


Model	A	B
FXSQ20,25,32M7V1B	550	250
FXSQ40,50M7V1B	700	300
FXSQ63M7V1B	1,000	460
FXSQ80,100,125M7V1B	1,400	640

4TW25689-2

6-3 Bolt pitch

FXSQ-M7V1B



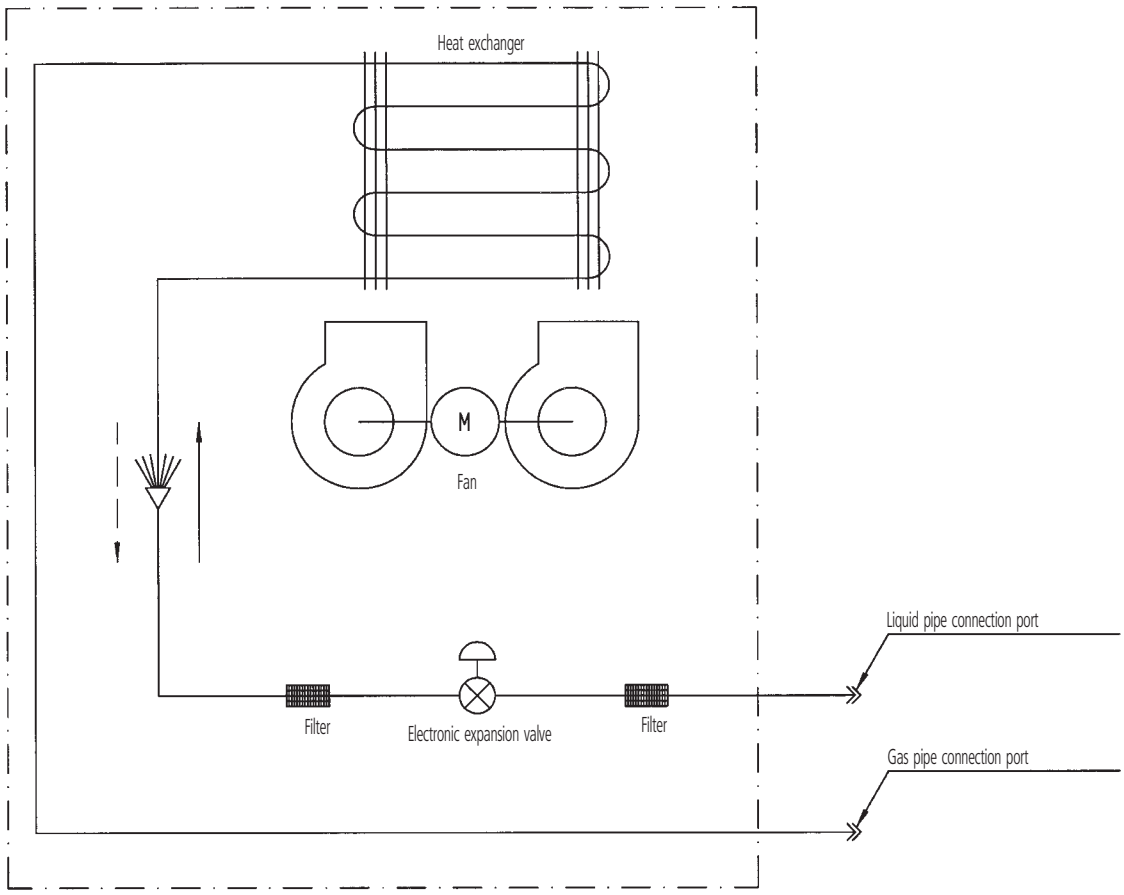
Number	Description
1	Indoor unit body
2	Pipe connections
3	Suspension bolt pitch (4x)
4	Suspension bolt pitch distance

Model	A	B
FXSQ20,25,32M7V1B	550	600
FXSQ40,50M7V1B	700	750
FXSQ63M7V1B	1,000	1,050
FXSQ80,100,125M7V1B	1,400	1,450

3TW22043-6C

7 Piping Diagram

FXSQ-M7V1B



Refrigerant flow

Cooling
Heating

Piping connection diameters

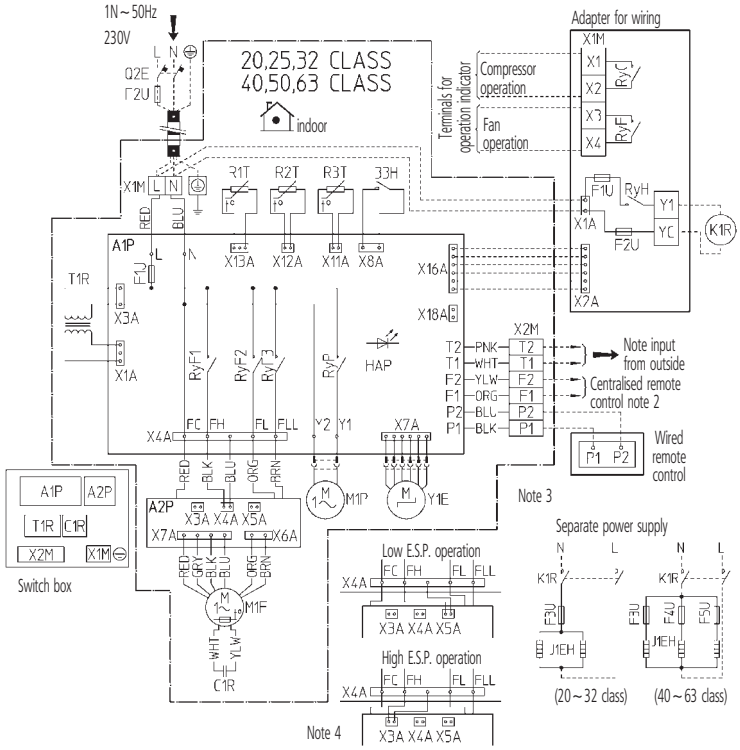
Model	gas	liquid
FXSQ20,25,32,40,50M7V1B	ø 12.7	ø 6.4
FXSQ63,80,100,125M7V1B	ø 15.9	ø 9.5

Check valve
Flare connection
Screw connection
Flange connection
Pinched pipe
Spinned pipe

3TW21175-1C

8 Wiring Diagrams

FXSQ20,25,32,40,50,63M7V1B



33H	Float switch	R2T, R3T	Thermistor (refrigerant)	Wiring adapter	
A1P	Printed circuit board	RyF1-3	Magnetic relay (fan)	RyC, RyF	Magnetic relay
A2P	Terminal board	RyP	Magnetic relay (drain pump)	RyH	Magnetic relay (J1EH)
C1R	Capacitor (fan)	T1R	Transformer (220-240V/22V)	F1U, F2U	Fuse (250V, 5A)
F1U	Fuse (250V, 10A)	X1M	Terminal strip (power)	X1A, X2A	Connector (wiring adapter)
F2U	Field fuse	X2M	Terminal strip (control)	X1M	Terminal strip
HAP	Light emitting diode (service monitor-green)	Y1E	Electronic expansion valve	Connector for optional parts	
M1F	Motor (fan)	Optional parts		X16A	Connector (wiring adapter)
M1P	Motor (drain pump)	F3-5U	Fuse (250V, 16A)	X18A	Connector (wiring adapter for electrical appendices)
Q2E	Earth leak detector	J1EH	Electric heater		
R1T	Thermistor (air)	K1R	Magnetic relay (J1EH)		

: Terminal
, D– : Connector
: Field wiring

COLORS : BLK : Black PNK : Pink
BLU : Blue RED : Red
BRN : Brown WHT : White
ORG : Orange YLW : Yellow

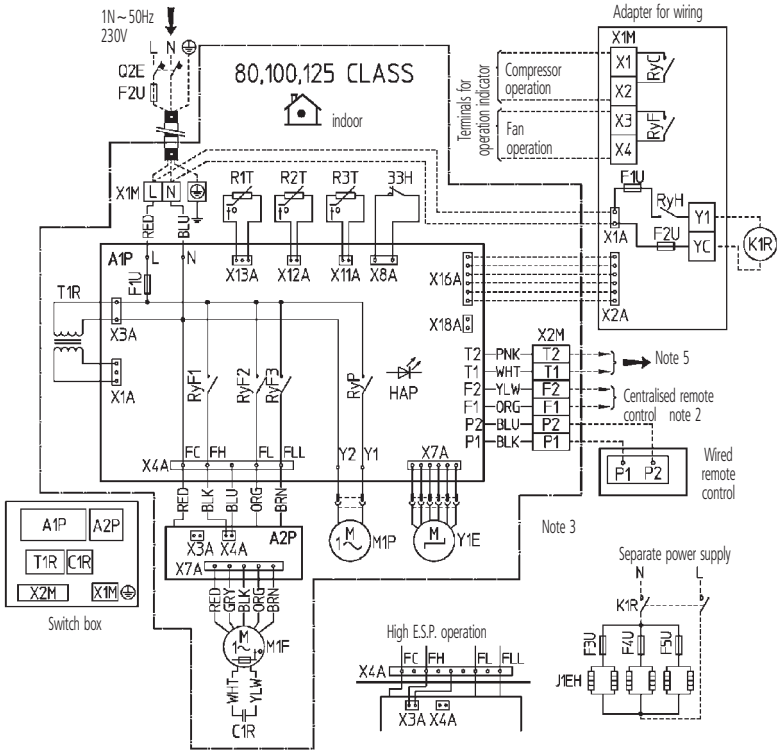
NOTES

1 Use copper conductors only.
2 When using the centralised remote control, see manual for connection to the unit.
3 When installing the electric heater, change the wiring for the heater circuit. The main power supply has to be supplied independently.
4 For high or low E.S.P. operation, change the wiring connection of X4A as shown on the wiring diagram.
5 When connecting the input wires from outside, 'forced off' or 'ON/OFF' control operation can be selected by the remote control manual. See installation manual for more details.

2TW23686-1A

8 Wiring Diagrams

FXSQ80,100,125M7V1B



33H	Float switch	R2T, R3T	Thermistor (refrigerant)	Wiring adapter	
A1P	Printed circuit board	RyF1-3	Magnetic relay (fan)	RyC, RyF	Magnetic relay
A2P	Terminal board	RyP	Magnetic relay (drain pump)	RyH	Magnetic relay (J1EH)
C1R	Capacitor (fan)	T1R	Transformer (220-27V)	F1U, F2U	Fuse (250V, 5A)
F1U	Fuse (250V, 10A)	X1M	Terminal strip (power)	X1A, X2A	Connector (wiring adapter)
F2U	Field fuse	X2M	Terminal strip (control)	X1M	Terminal strip
HAP	Light emmitting diode (service monitor-green)	Y1E	Electronic expansion valve	Connector for optional parts	
M1F	Motor (fan)	Optional parts		X16A	Connector (wiring adapter)
M1P	Motor (drain pump)	F3-5U	Fuse (250V, 16A)	X18A	Connector (wiring adapter for electrical appendices)
Q2E	Earth leak detector	J1EH	Electric heater		
R1T	Thermistor (air)	K1R	Magnetic relay (J1EH)		

: Terminal
, D– : Connector
: Field wiring

COLORS : BLK : Black PNK : Pink
BLU : Blue RED : Red
BRN : Brown WHT : White
ORG : Orange YLW : Yellow

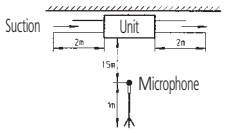
NOTES

1 Use copper conductors only.
2 When using the centralised remote control, see manual for connection to the unit.
3 When installing the electric heater, change the wiring for the heater circuit. The main power supply has to be supplied independently.
4 For high or low E.S.P. operation, change the wiring connection of X4A as shown on the wiring diagram.
5 When connecting the input wires from outside, forced off or ON/OFF control operation can be selected by the remote control manual. See installation manual for more details.

2TW23736-1A

9 Sound level

9-1 Sound level data

Model	Sound pressure level - 230V			Sound power level
	H	L	Measuring location	
FXSQ20M7V1B	32	28		50
FXSQ25M7V1B	32	28		50
FXSQ32M7V1B	33	28		51
FXSQ40M7V1B	33	29		56
FXSQ50M7V1B	35	31		58
FXSQ63M7V1B	35	30		56
FXSQ80M7V1B	37	31		55
FXSQ100M7V1B	38	33		56
FXSQ125M7V1B	40	35		65

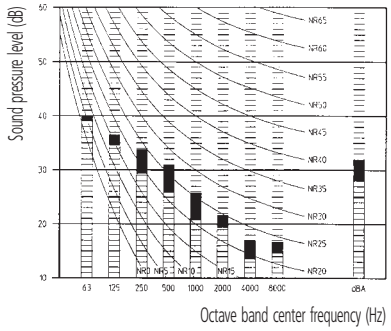
NOTES

1 Data is valid at free field condition.
2 Data is valid at nominal operation condition (230V)
3 dBA = A-weighted sound pressure level (A-scale according to IEC).
4 Reference acoustic pressure 0 dB = 20 μPa.

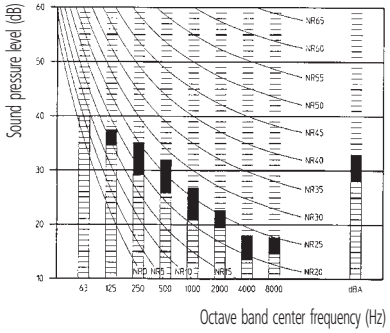
9 Sound level

9-2 Sound pressure spectrum

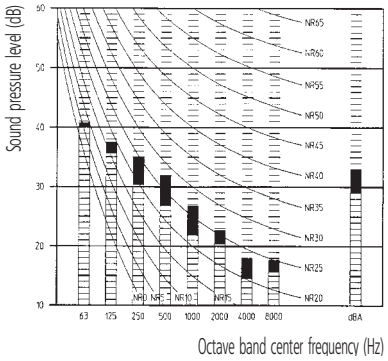
FXSQ20,25M7V1B 3TW22417-1



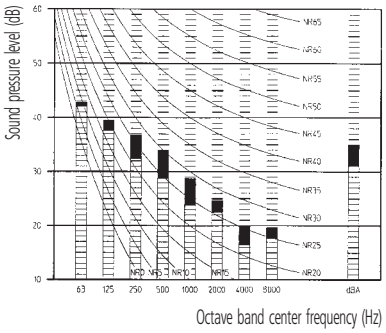
FXSQ32M7V1B 3TW22437-1



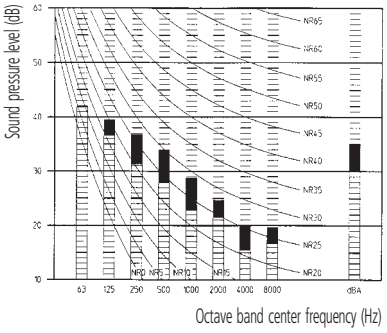
FXSQ40M7V1B 3TW22447-1



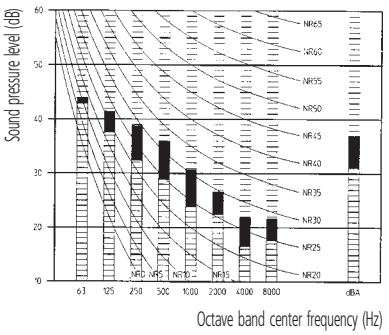
FXSQ50M7V1B 3TW22457-1



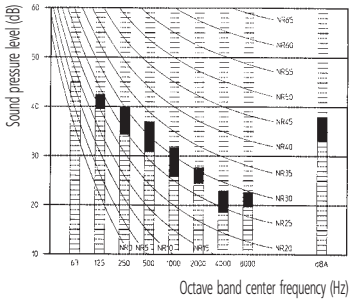
FXSQ63M7V1B 3TW22467-1



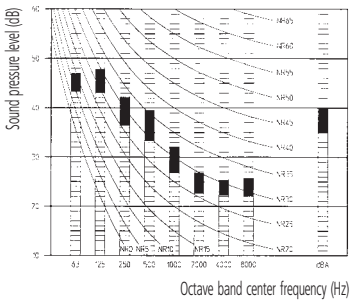
FXSQ80M7V1B 3TW22477-1

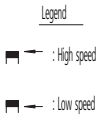


FXSQ100M7V1B 3TW22487-1



FXSQ125M7V1B 3TW22497-1





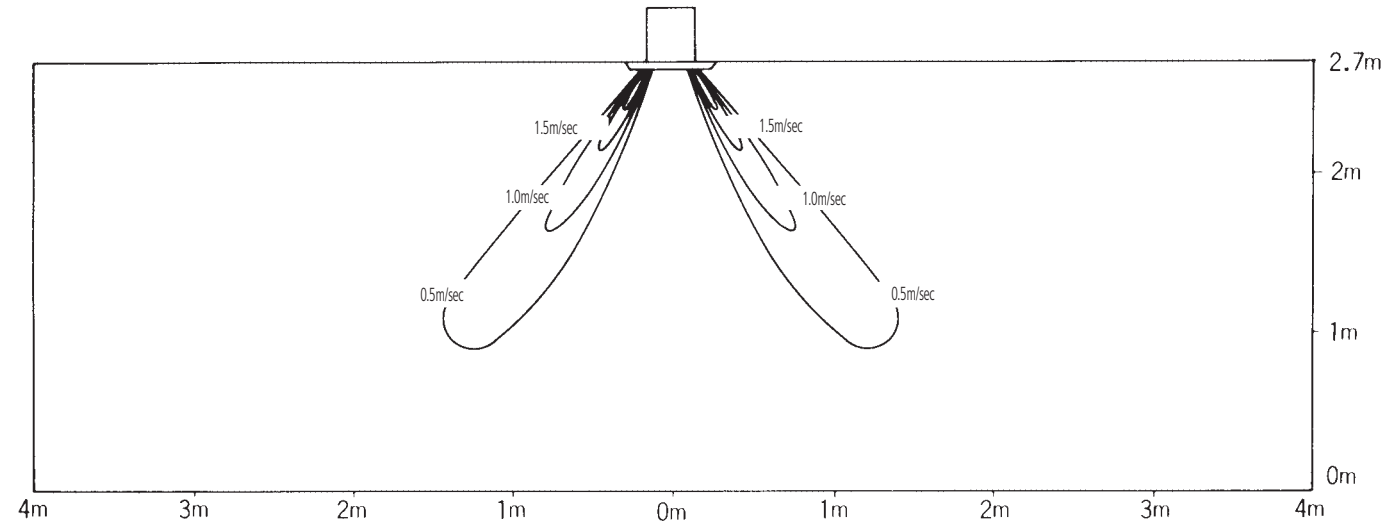
10 Air flow pattern & fan characteristics

10-1 Air flow pattern

FXSQ63M7V1B

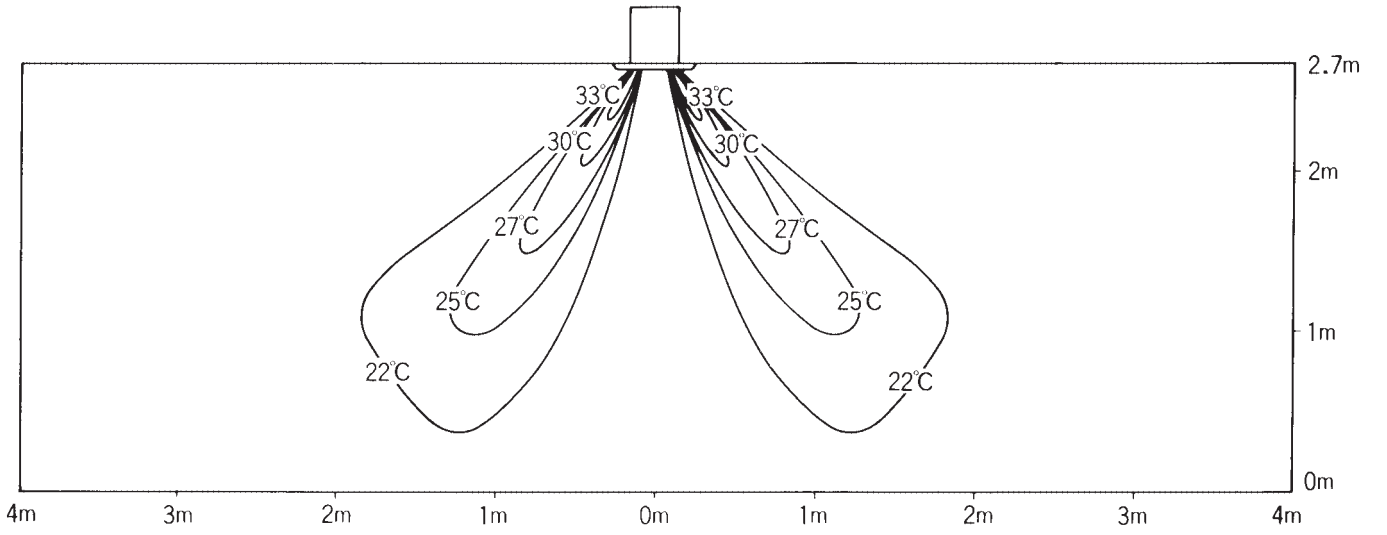
Heating Air velocity distribution

9m³/min flow rate blow unit (KDGS90D9) used



Heating Temperature distribution

9m³/min flow rate blow unit (KDGS90D9) used



10

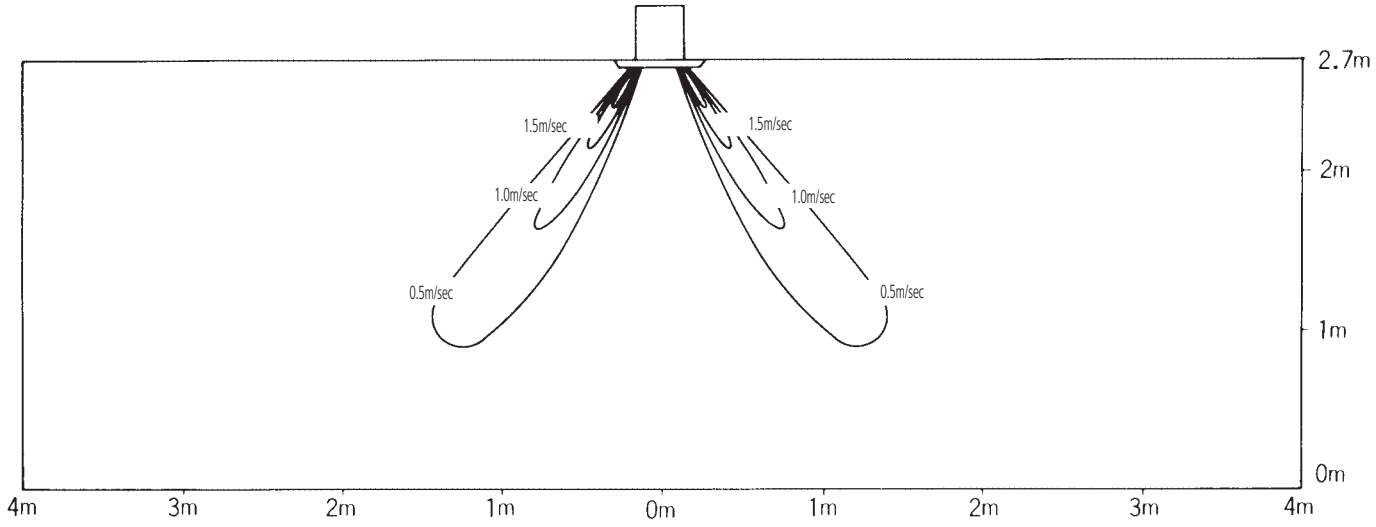
10 Air flow pattern & fan characteristics

10-1 Air flow pattern

FXSQ125M7V1B

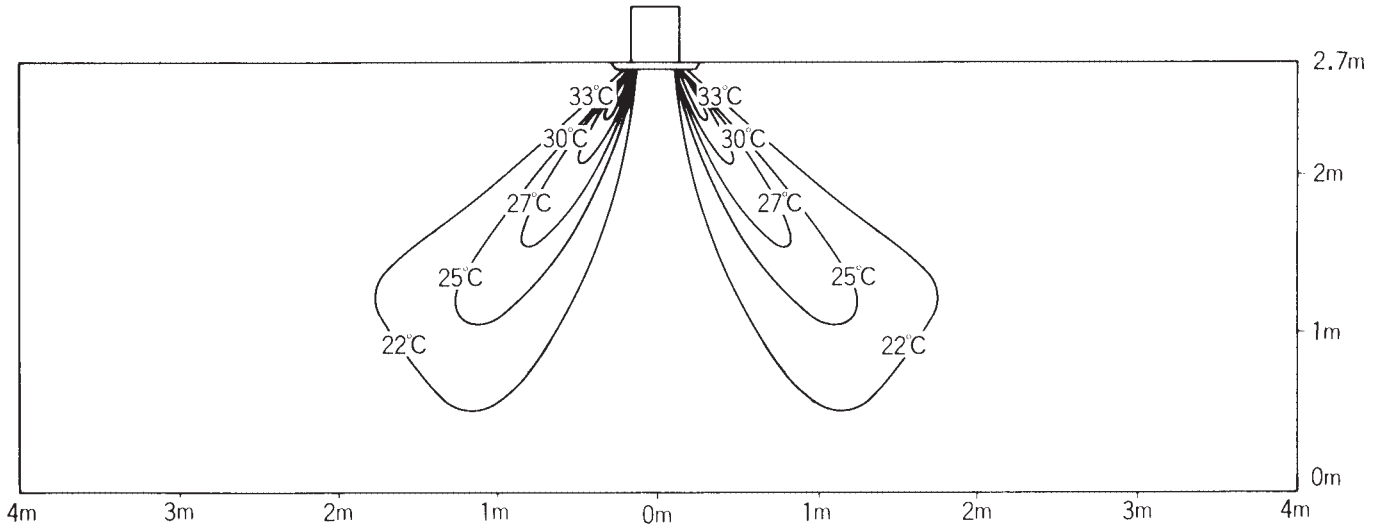
Heating Air velocity distribution

9m³/min flow rate blow unit (KDGS90D9) used



Heating Temperature distribution

9m³/min flow rate blow unit (KDGS90D9) used

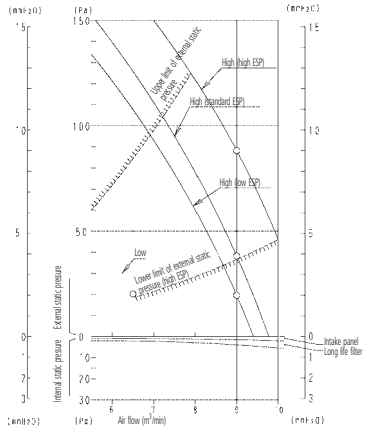


10

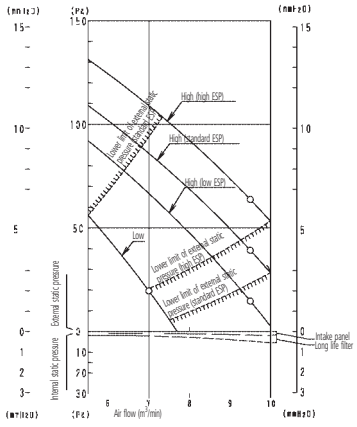
10 Air flow pattern & fan characteristics

10-2 Fan characteristics

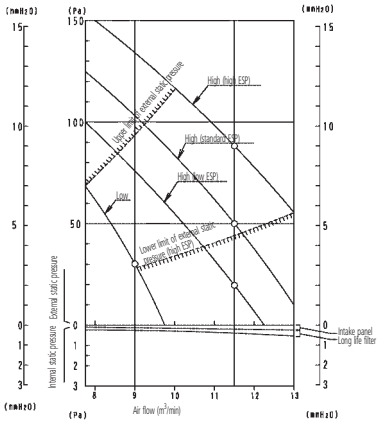
FXSQ20,25M7V1B 3D036959



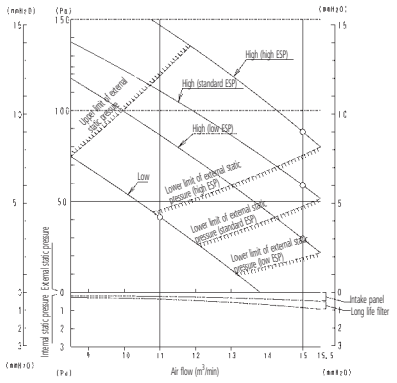
FXSQ32M7V1B 3D036960



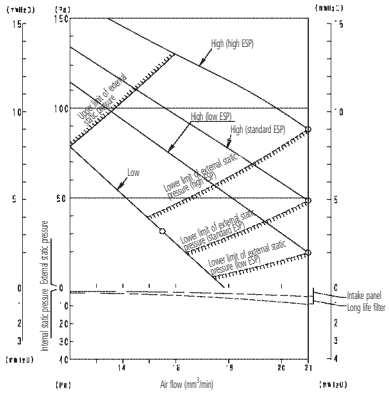
FXSQ40M7V1B 3D036961



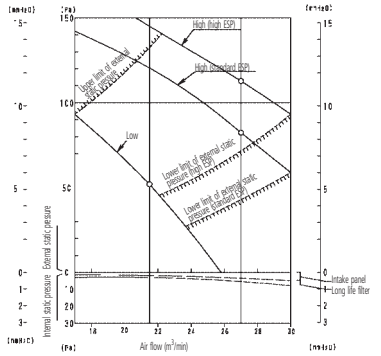
FXSQ50M7V1B 3D036962



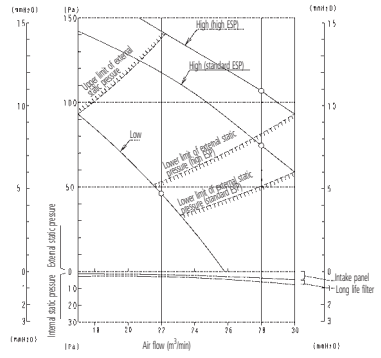
FXSQ63M7V1B 3D036963



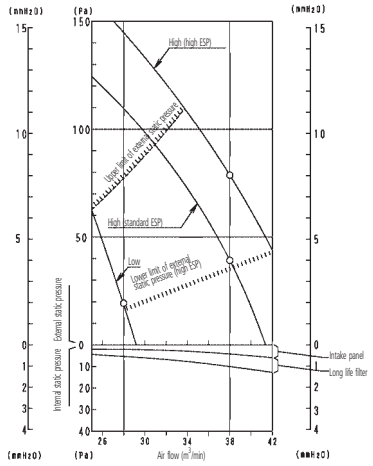
FXSQ80M7V1B 3D036964



FXSQ100M7V1B 3D036965



FXSQ125M7V1B 3D036966



NOTES

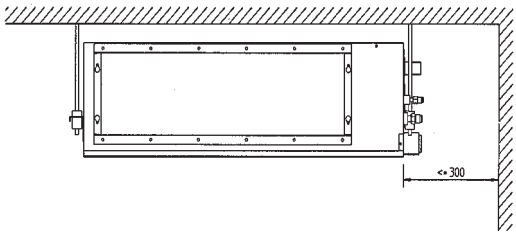
1 The remote control can be used to switch between "high" and "low".

2 The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the terminals in the indoor unit electrical box.

3 The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessories) are incorporated into the main unit (with a long-life filter)

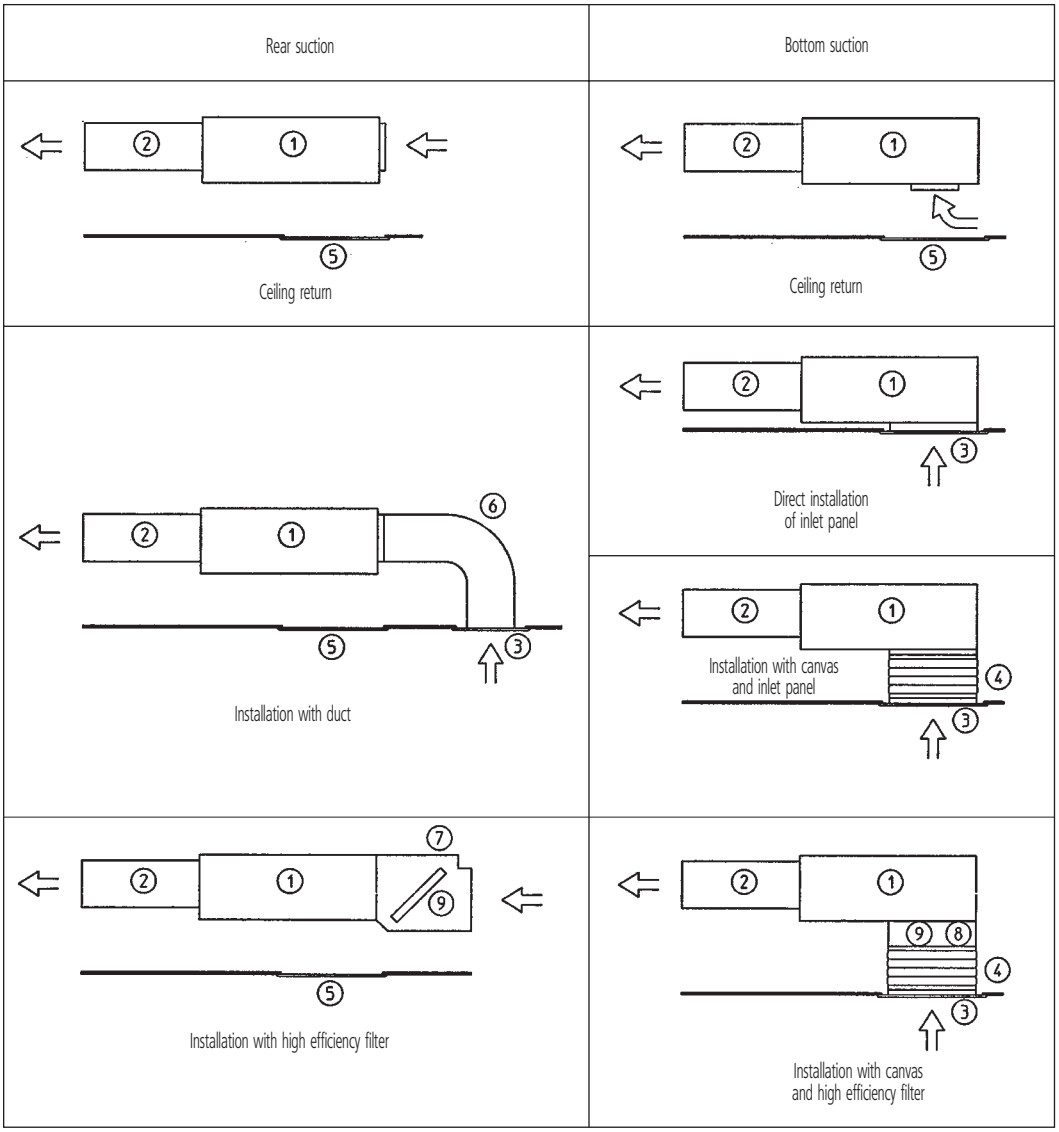
11 Installation

11-1 Service space



3TW22043-6B

11-2 Installation methods

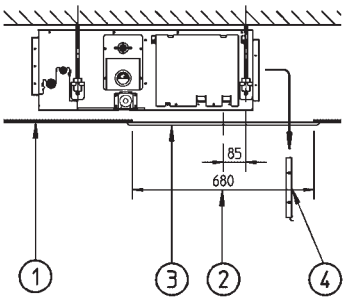


3TW22043-4A

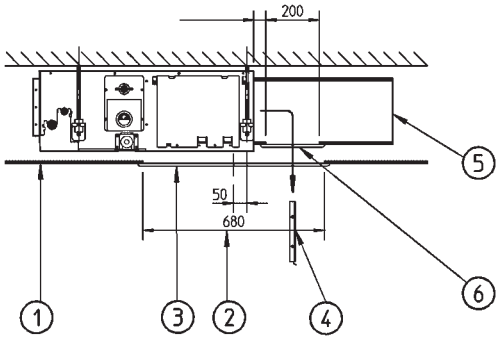
Nr.	Name	Description
1	Main body	
2	Air outlet duct	Field supply
3	Inlet panel	Optional accessory
4	Air suction canvas	Optional accessory
5	Access panel	Optional accessory
6	Air inlet duct	Field supply
7	Filter chamber for rear suction	Optional accessory
8	Filter chamber for bottom suction	Optional accessory
9	High efficiency filter	Optional accessory

11 Installation

11-3 Filter installation method

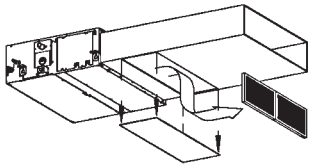


Installation without duct



Installation with duct

Number	Description
1	False ceiling
2	Ceiling opening
3	Service access panel (optional)
4	Air filter
5	Air inlet duct
6	Duct service opening



NOTES

1 When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.

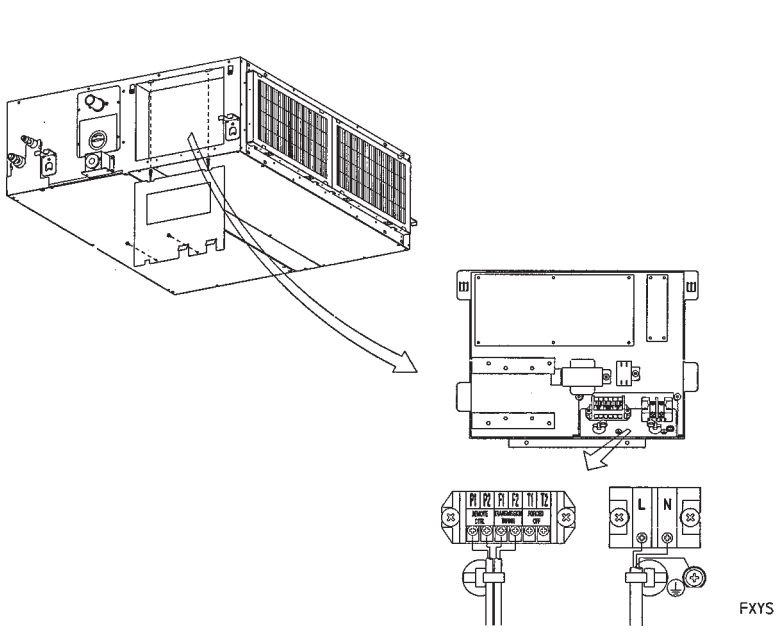
2 When installing the unit with a suction duct, a service opening must be provided in the duct.

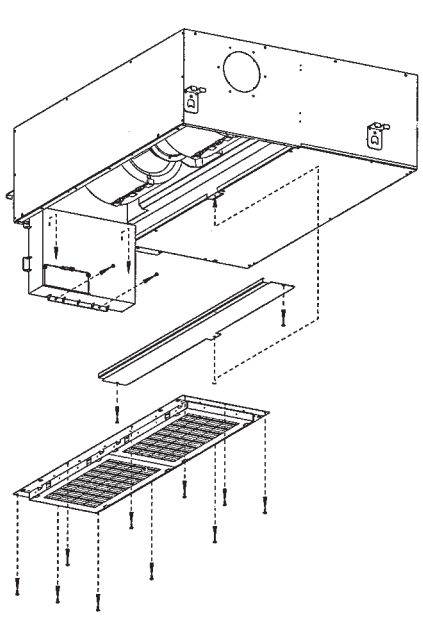
3 An optional service access panel is available.

Model	Service access panel
FXSQ20,25,32M7V1B	KTBJ25K36W
FXSQ40,50M7V1B	KTBJ25K56W
FXSQ63M7V1B	KTBJ25K80W
FXSQ80,125M7V1B	KTBJ25K160W

3TW25684-3

11-4 Switch box connections





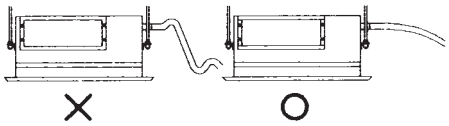
3TW22043-5B

11 Installation

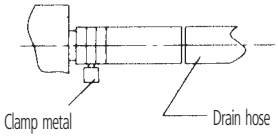
11-5 Drain piping

11-5-1 Install the drain pipes

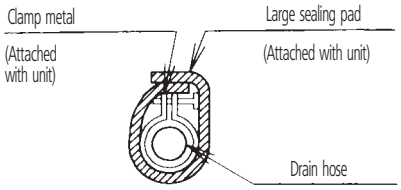
- Keep piping as short as possible and slope it downwards so that air may not remain trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (Vinyl pipe of 25 mm nominal diameter and 32 mm outer diameter)



- Use the attached drain hose and clamp. Tighten the clamp firmly.



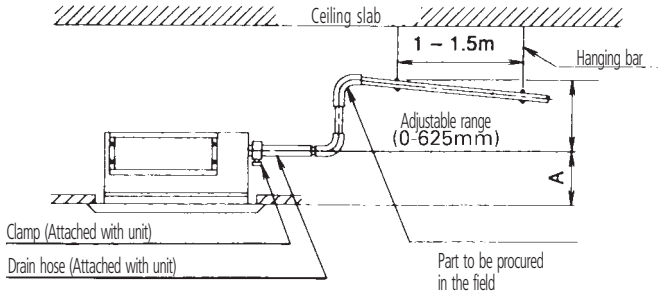
- Insulate the clamp with the attached sealing pad.



- Insulate the drain hose inside the building.

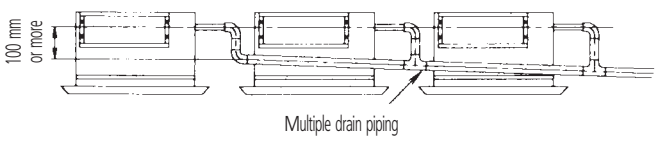
How to install piping

1. Connect the drain hose to the drain raising pipes, and insulate them.
2. Connect the drain hose to the drain outlet on the indoor unit, and tighten it with the clamp.
3. Insulate both metal clamp and drain hose with the attached sealing pad.



	A
When canvas duct is installed	350 - 530
When air inlet panel is directly installed	275

- To ensure a downward slope of 1:100, install hanging bars every 1 to 1.5 m.
- If unifying multiple drain pipes, install pipes according to this drawing.

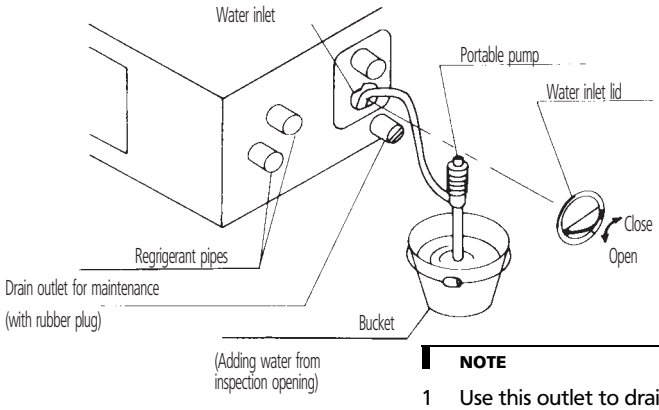


11 Installation

11-5 Drain piping

11-5-2 After piping work is finished, check if drainage flows smoothly

- Open the water inlet lid, add approximately 1,000 cc of water gradually and check drainage flow.



NOTE

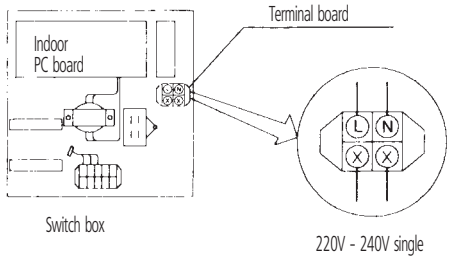
1 Use this outlet to drain water from the drain pan.

11-5-3 When electric wiring work is finished

- Check drainage flow during COOL running.

11-5-4 When electric wiring work is not finished

- Remove the electric parts box lid, connect a power supply and remote control to the terminals. (See installation manual)
  Next, press the inspection/test operation button " TEST " on the remote control. The unit will engage the test operation mode. Press the operation mode selector button " " until selecting FAN operation " ". Then, press the ON/OFF button " ". The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press " TEST " to go back to the first mode.



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VRV II Systems

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 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.

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

VRV products are not within the scope of the Eurovent certification programme.

Daikin equipment is designed for comfort applications. For use in other applications, please contact your local Daikin representative.

Specifications are subject to change without prior notice

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