



technical data

VRVTM Systems

FXYSP-KA7V19

Concealed ceiling unit

FXYSP-KA7V19 Concealed ceiling unit

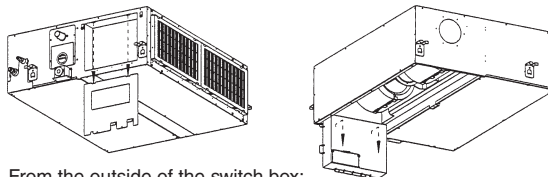


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1 Features

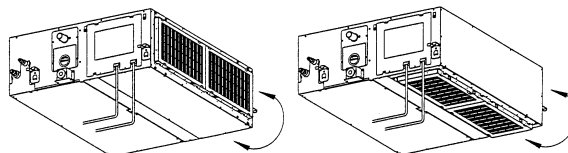
- Offers freedom of development for the body, air outlets and inlets
- A comfortable air flow can be achieved by installing the discharge outlet in a high load zone - where personnel tend to congregate - and areas close to windows, which can be affected by external temperature changes
- Unrestricted 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

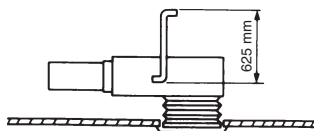


From the outside of the switch box:
remove the switch box cover

- Simple modification from rear to bottom suction



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2 Specifications

2-1 Technical specifications

FXYSP-KA7V19				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	216	246	321
		Heating	W	90		94	107	123	169	196	226	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			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 50 Hz	Pa	88-39-20 (4)		64-39-15 (4)	88-49-20 (4)	88-59-29 (4)	88-49-20 (4)	88-49 (5)	98-69 (5)	78-39 (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		ø 9.5		
		Gas	flare	mm	ø 12.7			ø 15.9		ø 19.1		
		Drain		mm	VP25, external diameter 32, internal diameter 25							
SOUND ABSORBING THERMAL INSULATION			foamed polyurethane									

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NOTES

- Nominal cooling capacities are based on:
 - Indoor air temperature: 27°CDB, 19°CWB
 - Outdoor temperature: 35°CDB
 - Equivalent refrigerant piping: 8m
 - Level difference: 0m
- Nominal heating capacities are based on:
 - Indoor air temperature: 20°CDB
 - Outdoor temperature: 7°CDB, 6°CWB
 - Equivalent refrigerant piping: 8m
 - Level difference: 0m
- Capacities are net including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard - Low static pressure.
- The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard.
- The sound pressure values are mentioned for a unit installed with rear suction.

2 Specifications

2-2 Electrical specifications

FXYSP-KA7V19			20	25	32	40	50	63	80	100	125
CURRENT	Minimum circuit amps (MCA)	A	0.5		0.6	0.9	1.1	1.3	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	135		225		
	Full load amps (FLA)	A	0.4	0.5	0.7	0.9	1.0	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

2

2-3 Safety device settings

FXYSP-KA7V19			20	25	32	40	50	63	80	100	125
PC BOARD FUSE			250V 10A								
FAN MOTOR THERMAL FUSE		°C	152 ^{±2}								
DRAIN PUMP FUSE		°C	164.5 ^{±2.5}								

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3 Accessories

FXYSP-KA7V19			20	25	32	40	50	63	80	100	125
DECORATION PANEL			BYBS32DJW1		BYBS45DJW1		BYBS71DJW1		BYBS125DJW1		
SERVICE ACCESS PANEL			KTBJ25K36W		KTBJ25K56W		KTBJ25K80W		KTBJ25K160W		
AUXILIARY ELECTRIC HEATER (1) (3)	240V/220V		KEA25K32VE		KEA25K50VE		KEA25K63VE		KEA25K100VE		KEA25K125VE
	Capacity		0.75		1.2		1.4		2.1		2.8
HIGH EFFICIENCY FILTER 65% (2)			KAFJ252L36		KAFJ252L56		KAFJ252L80		KAFJ252L160		
HIGH EFFICIENCY FILTER 90% (2)			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 A wiring adapter (KRP1B61) per indoor unit is required, if installing an electric heater.
- 2 If installing a high efficiency filter in the unit, an assembly chamber for either bottom or rear suction is required.
- 3 An electric heater cannot be used for VRV system cooling only.

4 Control systems

4-1 Individual control systems

WIRED REMOTE CONTROL		BRC1C517, BRC1D517
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	DCS302B51
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
MIX MATCHING ADAPTER FOR "K" INDOOR UNITS	DTA106A61
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT)	DTA104A51

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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.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.ODB		23.ODB		26.ODB		27.ODB		28.ODB		30.ODB		32.ODB	
			°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC
20	2.2	10.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	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	1.8	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	1.8	2.6	1.9	2.9	1.9
		16.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
		18.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
		20.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
		21.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
		23.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
		25.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.8	1.9
		27.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.8	1.9
		29.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8
		31.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.7	1.8
		33.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
		35.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.8
		37.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8
		39.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.4	1.8	2.5	1.8
		25	2.8	10.0	1.9	1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2
12.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
14.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
16.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
18.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
20.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
21.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
23.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
25.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.5	2.2
27.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.4	2.1
29.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.2	3.4	2.1
31.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.3	2.1
33.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.2	2.1
35.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.1
37.0	1.9			1.7	2.2	1.9	2.5	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.0
39.0	1.9			1.7	2.2	1.9	2.5	2.0	2.6	2.0	2.7	2.1	2.9	2.1	3.1	2.0
32	3.6			10.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6
		12.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.5	2.6
		14.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.5	2.6
		16.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.5	2.6
		18.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.5	2.6
		20.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.5	2.6
		21.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.5	2.6
		23.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.4	2.6
		25.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.4	2.6
		27.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.3	2.6
		29.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	4.0	2.6	4.2	2.5
		31.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	3.9	2.6	4.2	2.5
		33.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	3.8	2.5	4.1	2.5
		35.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.6	2.5	3.8	2.5	4.0	2.5
		37.0	2.3	2.0	2.8	2.2	3.2	2.3	3.4	2.4	3.5	2.5	3.7	2.5	3.9	2.4
		39.0	2.3	2.0	2.8	2.2	3.2	2.3	3.3	2.4	3.4	2.5	3.7	2.4	3.9	2.4
		40	4.5	10.0	3.0	2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4
12.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
14.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
16.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
18.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
20.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
21.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
23.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.8	3.4
25.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.7	3.4
27.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.6	3.3
29.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.2	3.4	5.5	3.3
31.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.1	3.3	5.4	3.3
33.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.7	3.3	5.0	3.3	5.3	3.2
35.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.6	3.3	4.9	3.2	5.2	3.2
37.0	3.0			2.5	3.6	2.9	4.1	3.0	4.4	3.1	4.5	3.2	4.8	3.2	5.1	3.2
39.0	3.0			2.5	3.6	2.9	4.1	3.0	4.3	3.1	4.4	3.2	4.7	3.2	5.0	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.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.ODB		23.ODB		26.ODB		27.ODB		28.ODB		30.ODB		32.ODB	
°CDB		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
50	5.6	10.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		12.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		14.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		16.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		18.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		20.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		21.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		23.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.2	4.2
		25.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.1	4.1
		27.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	7.0	4.1
		29.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.5	4.1	6.8	4.0
		31.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.3	4.1	6.7	4.0
		33.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.1	6.2	4.0	6.6	4.0
		35.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.8	4.0	6.1	4.0	6.5	3.9
37.0	3.8	3.1	4.5	3.6	5.2	3.7	5.5	3.8	5.7	4.0	6.0	3.9	6.4	3.9		
39.0	3.8	3.1	4.5	3.6	5.2	3.7	5.4	3.8	5.6	3.9	5.9	3.9	6.2	3.8		
63	7.1	10.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		12.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		14.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		16.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		18.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		20.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		21.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		23.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.9	5.4
		25.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.7	5.3
		27.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.1	5.3	8.6	5.3
		29.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	8.0	5.3	8.5	5.2
		31.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	7.8	5.2	8.3	5.2
		33.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.2	5.2	7.7	5.2	8.2	5.1
		35.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.1	5.2	7.6	5.1	8.0	5.1
37.0	4.7	4.0	5.5	4.6	6.4	4.7	6.8	5.0	7.0	5.1	7.4	5.1	7.9	5.0		
39.0	4.7	4.0	5.5	4.6	6.4	4.7	6.7	4.9	6.9	5.1	7.3	5.0	7.7	5.0		
80	9.0	10.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		12.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		14.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		16.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		18.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		20.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		21.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		23.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.5	6.7
		25.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.3	6.6
		27.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.4	6.6	11.1	6.6
		29.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.3	6.6	10.9	6.5
		31.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.2	6.5	10.7	6.4
		33.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.3	6.5	10.0	6.5	10.6	6.4
		35.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.2	6.5	9.8	6.4	10.4	6.3
37.0	6.1	5.0	7.2	5.7	8.3	6.0	8.8	6.2	9.1	6.4	9.6	6.3	10.2	6.2		
39.0	6.1	5.0	7.2	5.7	8.3	6.0	8.6	6.1	8.9	6.3	9.5	6.3	10.0	6.2		
100	11.2	10.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		12.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		14.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		16.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		18.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		20.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		21.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.3	8.3
		23.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.2	8.3
		25.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	14.0	8.2
		27.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.9	8.2	13.8	8.1
		29.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.8	8.1	13.5	8.0
		31.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.6	8.0	13.3	7.9
		33.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.6	8.0	12.3	7.9	13.1	7.9
		35.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.4	7.9	12.1	7.9	12.8	7.8
37.0	7.5	6.2	8.9	7.0	10.2	7.4	10.9	7.6	11.2	7.9	11.9	7.8	12.6	7.7		
39.0	7.5	6.2	8.9	7.0	10.2	7.4	10.7	7.5	11.0	7.8	11.7	7.7	12.4	7.6		

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.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.ODB		23.ODB		26.ODB		27.ODB		28.ODB		30.ODB		32.ODB	
°CDB		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
125	14.0	10.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		12.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		14.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		16.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		18.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		20.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		21.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	18.0	10.4
		23.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	17.9	10.5
		25.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	17.6	10.3
		27.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.2	10.3	17.3	10.2
		29.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	16.1	10.3	17.0	10.1
		31.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	15.8	10.1	16.7	10.0
		33.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.5	10.1	15.5	10.1	16.4	9.9
		35.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.3	10.0	15.3	9.9	16.1	9.8
		37.0	9.4	7.8	11.2	8.9	12.9	9.4	13.7	9.6	14.1	9.9	15.0	9.8	15.9	9.7
		39.0	9.4	7.8	11.2	8.9	12.9	9.4	13.4	9.5	13.8	9.9	14.7	9.7	15.6	9.5

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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	-13.7	-15.0	1.5	1.4	1.4	1.4	1.4	1.4
		-11.8	-13.0	1.5	1.5	1.5	1.5	1.5	1.5
		-9.8	-11.0	1.6	1.6	1.6	1.6	1.6	1.5
		-9.5	-10.0	1.7	1.6	1.6	1.6	1.6	1.6
		-8.5	-9.1	1.7	1.7	1.6	1.6	1.6	1.6
		-7.0	-7.6	1.7	1.7	1.7	1.7	1.7	1.7
		-5.0	-5.6	1.8	1.8	1.8	1.8	1.8	1.7
		-3.0	-3.7	1.9	1.9	1.8	1.8	1.8	1.8
		0.0	-0.7	2.0	2.0	2.0	1.9	1.9	1.9
		3.0	2.2	2.1	2.1	2.1	2.0	2.0	1.9
		5.0	4.1	2.2	2.2	2.1	2.1	2.0	1.9
		7.0	6.0	2.3	2.2	2.2	2.1	2.0	1.9
		9.0	7.9	2.3	2.3	2.2	2.1	2.0	1.9
		11.0	9.8	2.4	2.4	2.2	2.1	2.0	1.9
		13.0	11.8	2.5	2.4	2.2	2.1	2.0	1.9
15.0	13.7	2.5	2.4	2.2	2.1	2.0	1.9		
25	3.2	-13.7	-15.0	1.8	1.8	1.7	1.7	1.7	1.7
		-11.8	-13.0	1.9	1.9	1.8	1.8	1.8	1.8
		-9.8	-11.0	2.0	2.0	1.9	1.9	1.9	1.9
		-9.5	-10.0	2.0	2.0	2.0	2.0	1.9	1.9
		-8.5	-9.1	2.1	2.0	2.0	2.0	2.0	2.0
		-7.0	-7.6	2.1	2.1	2.1	2.1	2.1	2.0
		-5.0	-5.6	2.2	2.2	2.2	2.2	2.2	2.1
		-3.0	-3.7	2.3	2.3	2.3	2.2	2.2	2.2
		0.0	-0.7	2.5	2.4	2.4	2.4	2.4	2.3
		3.0	2.2	2.6	2.6	2.5	2.5	2.5	2.3
		5.0	4.1	2.7	2.7	2.6	2.6	2.5	2.3
		7.0	6.0	2.8	2.7	2.7	2.6	2.5	2.3
		9.0	7.9	2.9	2.8	2.7	2.6	2.5	2.3
		11.0	9.8	3.0	2.9	2.7	2.6	2.5	2.3
		13.0	11.8	3.1	2.9	2.7	2.6	2.5	2.3
15.0	13.7	3.1	2.9	2.7	2.6	2.5	2.3		
32	4.0	-13.7	-15.0	2.3	2.2	2.2	2.2	2.2	2.1
		-11.8	-13.0	2.4	2.4	2.3	2.3	2.3	2.3
		-9.8	-11.0	2.5	2.5	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.6	2.5	2.5	2.5	2.5	2.4
		-8.5	-9.1	2.6	2.6	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.7	2.7	2.6	2.6	2.6	2.6
		-5.0	-5.6	2.8	2.8	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.9	2.9	2.8	2.8	2.8	2.8
		0.0	-0.7	3.1	3.1	3.0	3.0	3.0	2.9
		3.0	2.2	3.3	3.2	3.2	3.2	3.1	2.9
		5.0	4.1	3.4	3.3	3.3	3.3	3.1	2.9
		7.0	6.0	3.5	3.5	3.4	3.3	3.1	2.9
		9.0	7.9	3.6	3.6	3.4	3.3	3.1	2.9
		11.0	9.8	3.7	3.7	3.4	3.3	3.1	2.9
		13.0	11.8	3.8	3.7	3.4	3.3	3.1	2.9
15.0	13.7	3.9	3.7	3.4	3.3	3.1	2.9		
40	5.0	-13.7	-15.0	2.9	2.9	2.8	2.8	2.8	2.8
		-11.8	-13.0	3.1	3.0	3.0	3.0	3.0	2.9
		-9.8	-11.0	3.2	3.2	3.1	3.1	3.1	3.1
		-9.5	-10.0	3.3	3.3	3.2	3.2	3.2	3.1
		-8.5	-9.1	3.4	3.3	3.3	3.3	3.2	3.2
		-7.0	-7.6	3.5	3.5	3.4	3.4	3.4	3.3
		-5.0	-5.6	3.6	3.6	3.5	3.5	3.5	3.5
		-3.0	-3.7	3.8	3.7	3.7	3.7	3.6	3.6
		0.0	-0.7	4.0	4.0	3.9	3.9	3.9	3.7
		3.0	2.2	4.2	4.2	4.1	4.1	4.1	3.7
		5.0	4.1	4.4	4.3	4.3	4.2	4.1	3.7
		7.0	6.0	4.5	4.5	4.4	4.2	4.1	3.7
		9.0	7.9	4.7	4.6	4.4	4.2	4.1	3.7
		11.0	9.8	4.8	4.7	4.4	4.2	4.1	3.7
		13.0	11.8	5.0	4.7	4.4	4.2	4.1	3.7
15.0	13.7	5.1	4.7	4.4	4.2	4.1	3.7		

5

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	-13.7	-15.0	3.6	3.6	3.6	3.5	3.5	3.5
		-11.8	-13.0	3.8	3.8	3.8	3.7	3.7	3.6
		-9.8	-11.0	4.0	4.0	3.9	3.9	3.9	3.8
		-9.5	-10.0	4.1	4.1	4.0	4.0	4.0	3.9
		-8.5	-9.1	4.2	4.2	4.1	4.1	4.1	4.0
		-7.0	-7.6	4.4	4.3	4.2	4.2	4.2	4.1
		-5.0	-5.6	4.6	4.5	4.4	4.4	4.4	4.3
		-3.0	-3.7	4.7	4.7	4.6	4.6	4.6	4.5
		0.0	-0.7	5.0	5.0	4.9	4.9	4.8	4.6
		3.0	2.2	5.3	5.2	5.2	5.1	5.1	4.6
		5.0	4.1	5.5	5.4	5.3	5.3	5.1	4.6
		7.0	6.0	5.7	5.6	5.5	5.3	5.1	4.6
		9.0	7.9	5.8	5.8	5.5	5.3	5.1	4.6
		11.0	9.8	6.0	5.9	5.5	5.3	5.1	4.6
		13.0	11.8	6.2	5.9	5.5	5.3	5.1	4.6
15.0	13.7	6.4	5.9	5.5	5.3	5.1	4.6		
63	8.0	-13.7	-15.0	4.5	4.5	4.4	4.4	4.3	4.3
		-11.8	-13.0	4.7	4.7	4.6	4.6	4.6	4.5
		-9.8	-11.0	5.0	4.9	4.9	4.8	4.8	4.7
		-9.5	-10.0	5.1	5.1	5.0	4.9	4.9	4.8
		-8.5	-9.1	5.2	5.2	5.1	5.1	5.0	4.9
		-7.0	-7.6	5.4	5.3	5.2	5.2	5.2	5.1
		-5.0	-5.6	5.6	5.5	5.5	5.4	5.4	5.3
		-3.0	-3.7	5.9	5.8	5.7	5.7	5.6	5.5
		0.0	-0.7	6.2	6.1	6.0	6.0	6.0	5.7
		3.0	2.2	6.5	6.5	6.4	6.3	6.3	5.7
		5.0	4.1	6.8	6.7	6.6	6.5	6.3	5.7
		7.0	6.0	7.0	6.9	6.8	6.5	6.3	5.7
		9.0	7.9	7.2	7.1	6.8	6.5	6.3	5.7
		11.0	9.8	7.4	7.3	6.8	6.5	6.3	5.7
		13.0	11.8	7.7	7.3	6.8	6.5	6.3	5.7
15.0	13.7	7.9	7.3	6.8	6.5	6.3	5.7		
80	10.0	-13.7	-15.0	5.8	5.8	5.7	5.7	5.6	5.5
		-11.8	-13.0	6.1	6.1	6.0	6.0	5.9	5.8
		-9.8	-11.0	6.5	6.4	6.3	6.3	6.2	6.1
		-9.5	-10.0	6.6	6.5	6.5	6.4	6.3	6.3
		-8.5	-9.1	6.8	6.7	6.6	6.5	6.5	6.4
		-7.0	-7.6	7.0	6.9	6.8	6.8	6.7	6.6
		-5.0	-5.6	7.3	7.2	7.1	7.0	7.0	6.9
		-3.0	-3.7	7.6	7.5	7.4	7.3	7.3	7.2
		0.0	-0.7	8.0	7.9	7.8	7.8	7.7	7.4
		3.0	2.2	8.5	8.4	8.2	8.2	8.1	7.4
		5.0	4.1	8.8	8.7	8.5	8.5	8.1	7.4
		7.0	6.0	9.1	8.9	8.8	8.5	8.1	7.4
		9.0	7.9	9.4	9.2	8.8	8.5	8.1	7.4
		11.0	9.8	9.6	9.5	8.8	8.5	8.1	7.4
		13.0	11.8	9.9	9.5	8.8	8.5	8.1	7.4
15.0	13.7	10.2	9.5	8.8	8.5	8.1	7.4		
100	12.5	-13.7	-15.0	7.2	7.2	7.1	7.0	7.0	6.9
		-11.8	-13.0	7.6	7.5	7.4	7.4	7.3	7.2
		-9.8	-11.0	8.0	7.9	7.8	7.8	7.7	7.6
		-9.5	-10.0	8.2	8.1	8.0	7.9	7.9	7.8
		-8.5	-9.1	8.4	8.3	8.1	8.1	8.0	7.9
		-7.0	-7.6	8.7	8.5	8.4	8.4	8.3	8.2
		-5.0	-5.6	9.0	8.9	8.8	8.7	8.7	8.5
		-3.0	-3.7	9.4	9.3	9.1	9.1	9.0	8.9
		0.0	-0.7	10.0	9.8	9.7	9.6	9.6	9.2
		3.0	2.2	10.5	10.3	10.2	10.1	10.0	9.2
		5.0	4.1	10.9	10.7	10.6	10.5	10.0	9.2
		7.0	6.0	11.2	11.1	10.9	10.5	10.0	9.2
		9.0	7.9	11.6	11.4	10.9	10.5	10.0	9.2
		11.0	9.8	11.9	11.8	10.9	10.5	10.0	9.2
		13.0	11.8	12.3	11.8	10.9	10.5	10.0	9.2
15.0	13.7	12.6	11.8	10.9	10.5	10.0	9.2		

5

5 Capacity tables

5-2 Heating capacity

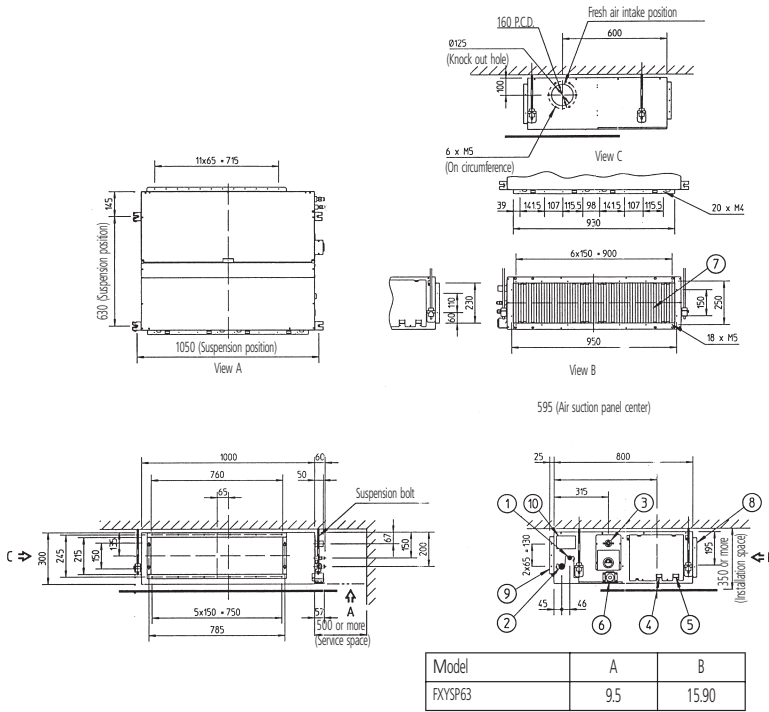
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
		°CDB	°CWB	16.0	18.0	20.0	21.0	22.0	24.0
125	16.0	-13.7	-15.0	9.1	9.0	8.9	8.8	8.7	8.6
		-11.8	-13.0	9.6	9.5	9.4	9.3	9.2	9.1
		-9.8	-11.0	10.0	9.9	9.8	9.7	9.7	9.5
		-9.5	-10.0	10.3	10.2	10.0	10.0	9.9	9.7
		-8.5	-9.1	10.5	10.4	10.2	10.2	10.1	10.0
		-7.0	-7.6	10.9	10.7	10.6	10.5	10.4	10.3
		-5.0	-5.6	11.4	11.2	11.0	11.0	10.9	10.7
		-3.0	-3.7	11.8	11.7	11.5	11.4	11.4	11.2
		0.0	-0.7	12.5	12.4	12.2	12.1	12.0	11.6
		3.0	2.2	13.2	13.0	12.8	12.7	12.6	11.6
		5.0	4.1	13.7	13.5	13.3	13.2	12.6	11.6
		7.0	6.0	14.1	13.9	13.7	13.2	12.6	11.6
		9.0	7.9	14.6	14.4	13.7	13.2	12.6	11.6
		11.0	9.8	15.0	14.8	13.7	13.2	12.6	11.6
		13.0	11.8	15.5	14.8	13.7	13.2	12.6	11.6
		15.0	13.7	15.8	14.8	13.7	13.2	12.6	11.6

3TW21172-2

6 Dimensions

6-1 Dimensional drawings

FXYSP63KA7V19

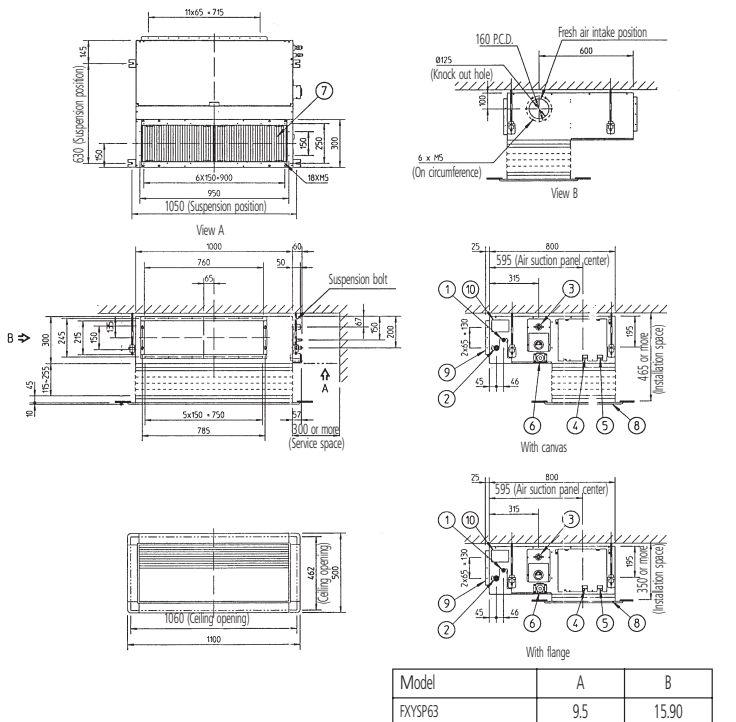


Nr.	Name	Description
1	Liquid pipe connection	øA flare connection
2	Gas pipe connection	øB flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge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

3TW2244-1C

WITH CANVAS



Nr.	Name	Description
1	Liquid pipe connection	øA flare connection
2	Gas pipe connection	øB 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.

3TW2244-2C

6 Dimensions

6-1 Dimensional drawings

FXYSP80,100,125KA7V19

Model	A	B
FXYSP80	9.5	15.90
FXYSP100	9.5	19.10
FXYSP125	9.5	19.10

Nr.	Name	Description
1	Liquid pipe connection	øA flare connection
2	Gas pipe connection	øB 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

- Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
- The required ceiling depth varies according to the configuration of the specific system.
- 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.

3TW22254-1B

WITH CANVAS

Model	A	B
FXYSP80	9.5	15.9
FXYSP100	9.5	19.1
FXYSP125	9.5	19.1

Nr.	Name	Description
1	Liquid pipe connection	øA flare connection
2	Gas pipe connection	øB 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

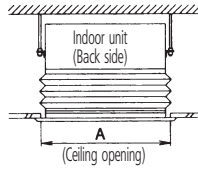
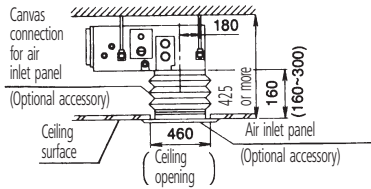
- Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
- Optional decoration panel: BYBS125JW1 (light ivory white 10Y9/0.5).
- The required ceiling depth varies according to the configuration of specific system.

3TW22254-2B

6 Dimensions

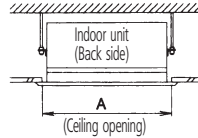
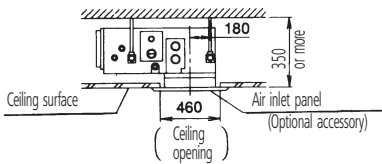
6-1 Dimensional drawings

INSTALLATION FOR BOTH SUCTION HALF PANEL AND SUCTION PANEL



Model	A
FXYSP20,25,32KA7V19	610
FXYSP40,50KA7V19	760
FXYSP63KA7V19	1,060
FXYSP80,100,125KA7V19	1,460

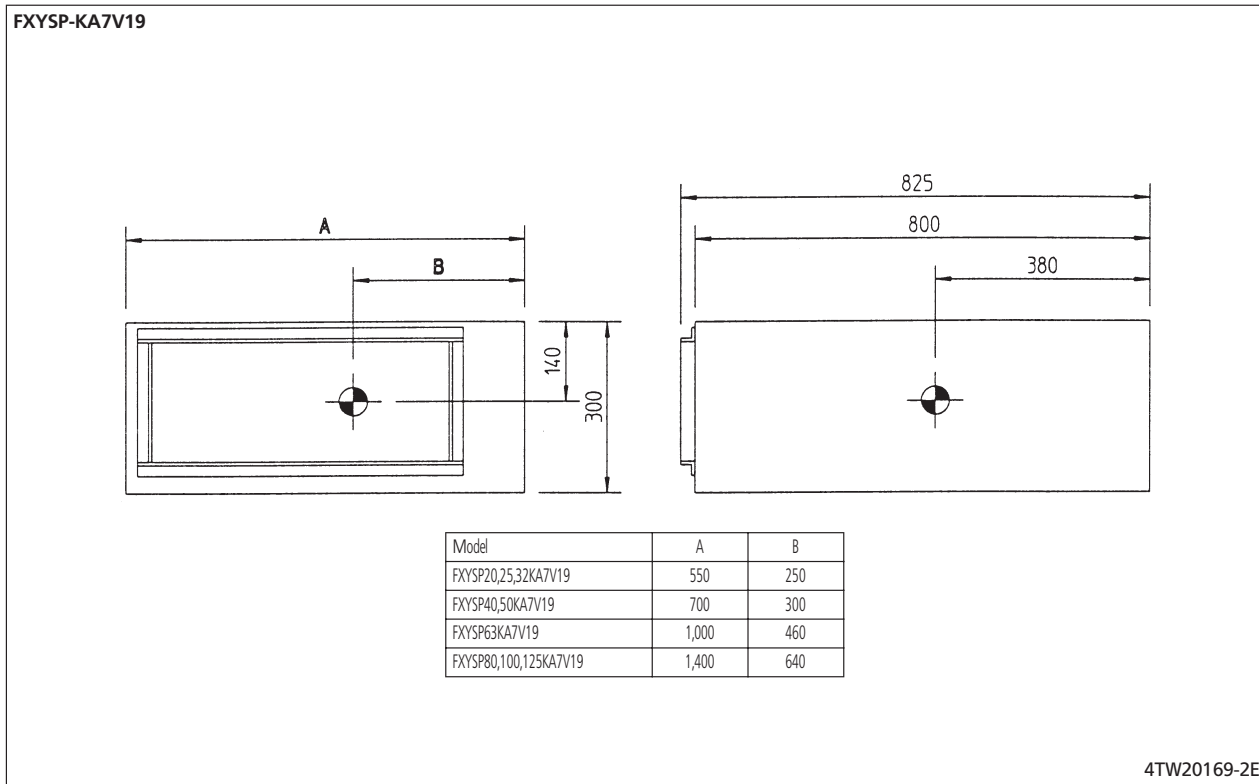
DIRECT INSTALLATION OF SUCTION HALF PANEL



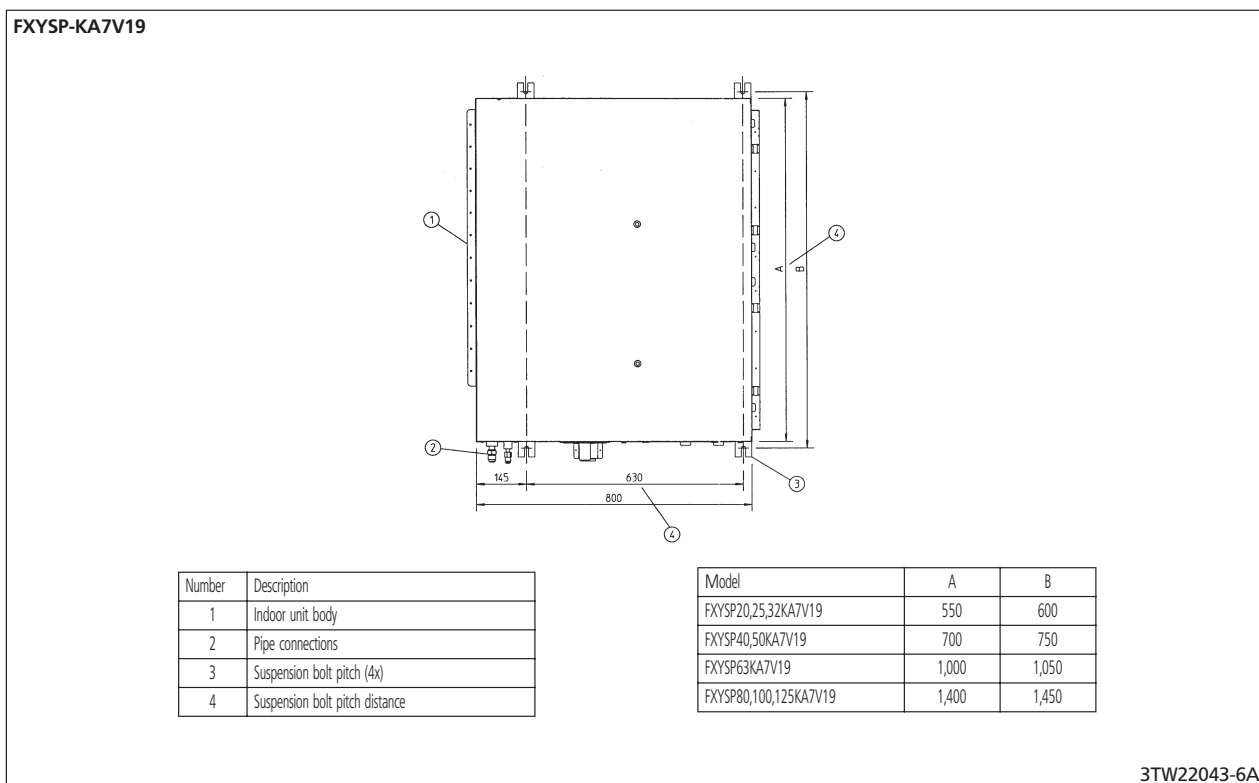
Model	A
FXYSP20,25,32KA7V19	610
FXYSP40,50KA7V19	760
FXYSP63KA7V19	1,060
FXYSP80,100,125KA7V19	1,460

6 Dimensions

6-2 Centre of gravity

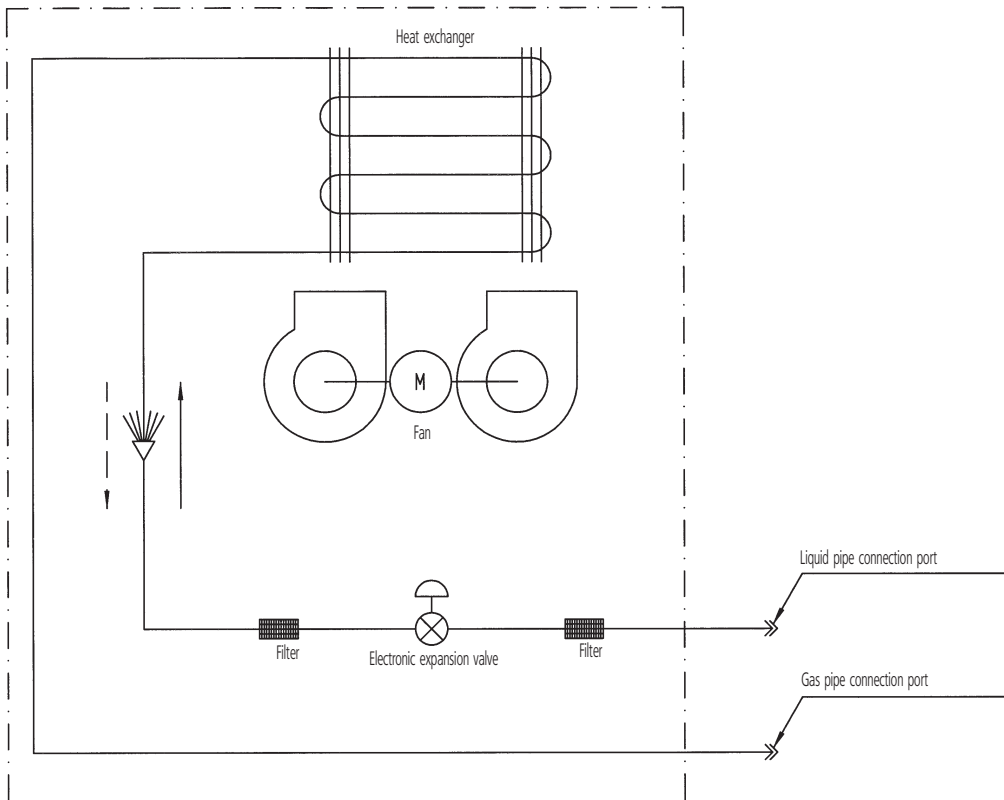


6-3 Bolt pitch

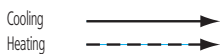


7 Piping Diagram

FXYSP-KA7V19



Refrigerant flow



Piping connection diameters

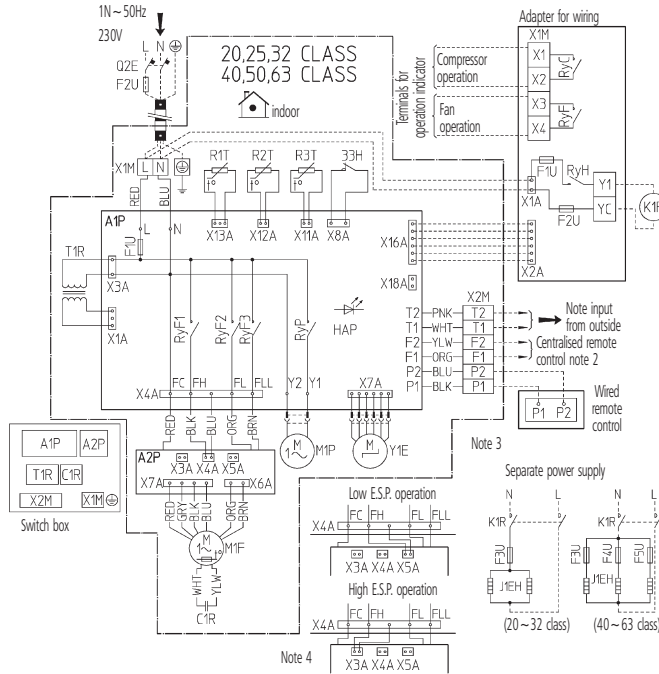
Model	gas	liquid
FXYSP20,25,32,40KA7V19	ø 12.7	ø 6.4
FXYSP50,63,80KA7V19	ø 15.9	ø 9.5
FXYSP100,125KA7V19	ø 19.1	ø 9.5

- ⏪ Check valve
- ⏩ Flare connection
- ⏪ Screw connection
- ⏪ Flange connection
- ✕ Pinched pipe
- ⏩ Spinned pipe

3TW21175-1C

8 Wiring Diagrams

FXYSP20,25,32,40,50,63KA7V19



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)		

Field wiring

- L : Live
- N : Neutral
- ⊞ : Connector
- : Wire clamp
- ⊕ : Protective earth (screw)

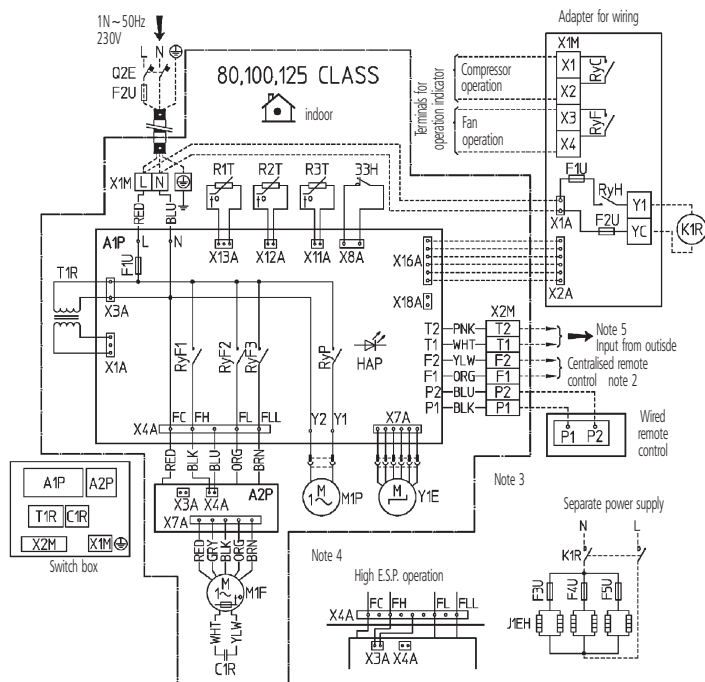
- COLORS :
- BLK : Black
 - PNK : Pink
 - ORG : Orange
 - BLU : Blue
 - RED : Red
 - YLW : Yellow
 - BRN : Brown
 - WHT : White
 - GRY : Grey

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.

8 Wiring Diagrams

FXYSP80,100,125KA7V19



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 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)		

⎓ : Field wiring

L : Live
 N : Neutral
 : Connector
 : Wire clamp
 : Protective earth (screw)

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

NOTES

- Use copper conductors only.
- When using the centralised remote control, see manual for connection to the unit.
- When installing the electric heater, change the wiring for the heater circuit. The main power supply has to be supplied independently.
- For high or low E.S.P. operation, change the wiring connection of X4A as shown on the wiring diagram.
- 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		Measuring location	Sound power level
	H	L		
FXYSP20KA7V19	32	28		50
FXYSP25KA7V19	32	28		50
FXYSP32KA7V19	33	28		51
FXYSP40KA7V19	33	29		56
FXYSP50KA7V19	35	31		58
FXYSP63KA7V19	35	30		56
FXYSP80KA7V19	37	31		55
FXYSP100KA7V19	38	33		56
FXYSP125KA7V19	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 μ Pa.

9 Sound level

9-2 Sound pressure spectrum

FXYSP20,25KA7V19

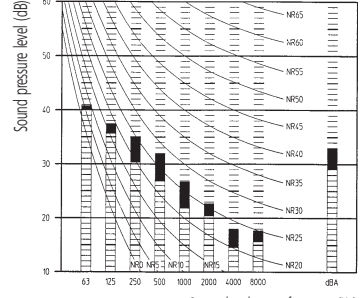
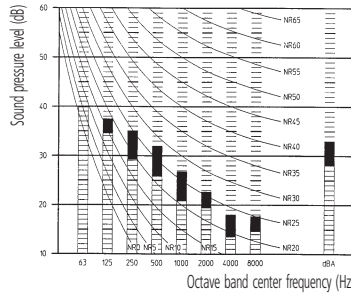
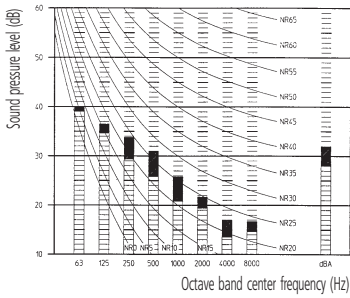
3TW22417-1

FXYSP32KA7V19

3TW22437-1

FXYSP40KA7V19

3TW22447-1



FXYSP50KA7V19

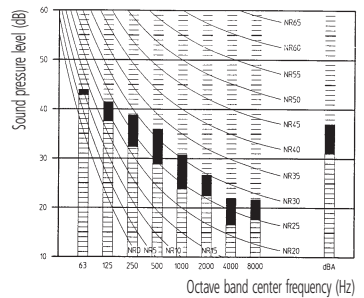
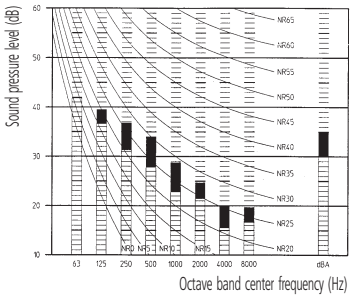
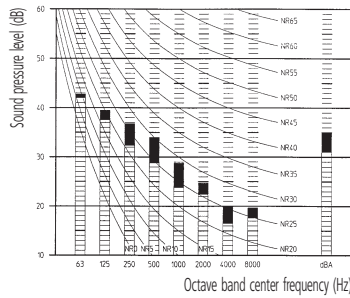
3TW22457-1

FXYSP63KA7V19

3TW22467-1

FXYSP80KA7V19

3TW22477-1

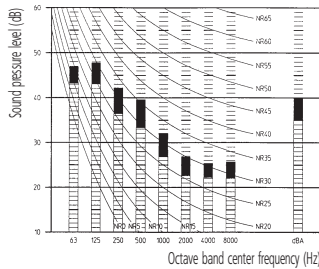
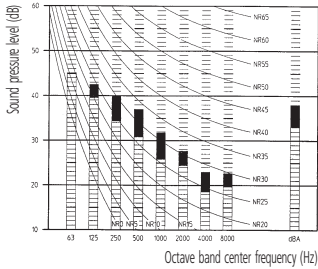




FXYSP100KA7V19

3TW22487-1

FXYSP125KA7V19

3TW22497-1



Legend
 : High speed
 : Low speed

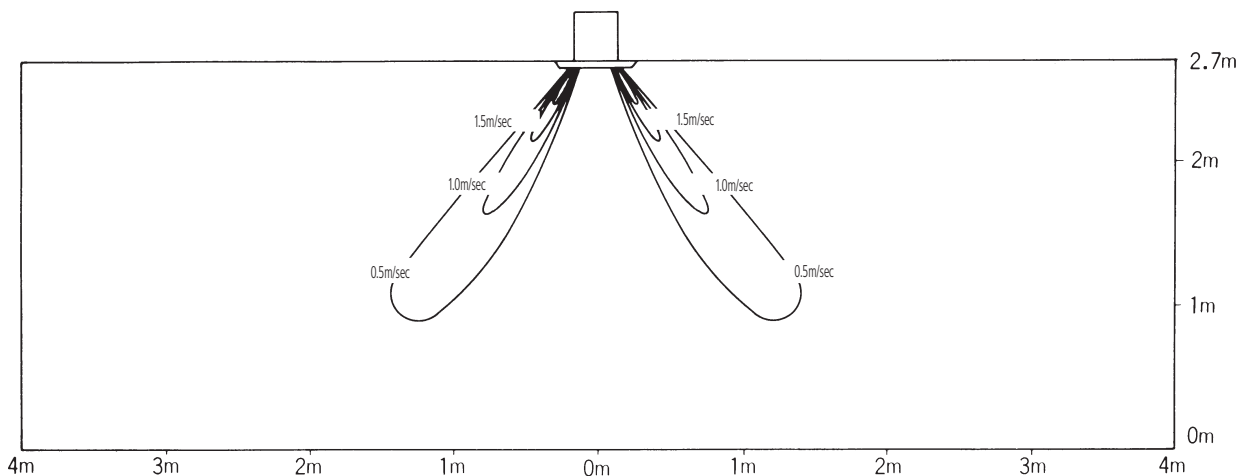
10 Air flow pattern & fan characteristics

10-1 Air flow pattern

FXYSP63KA7V19

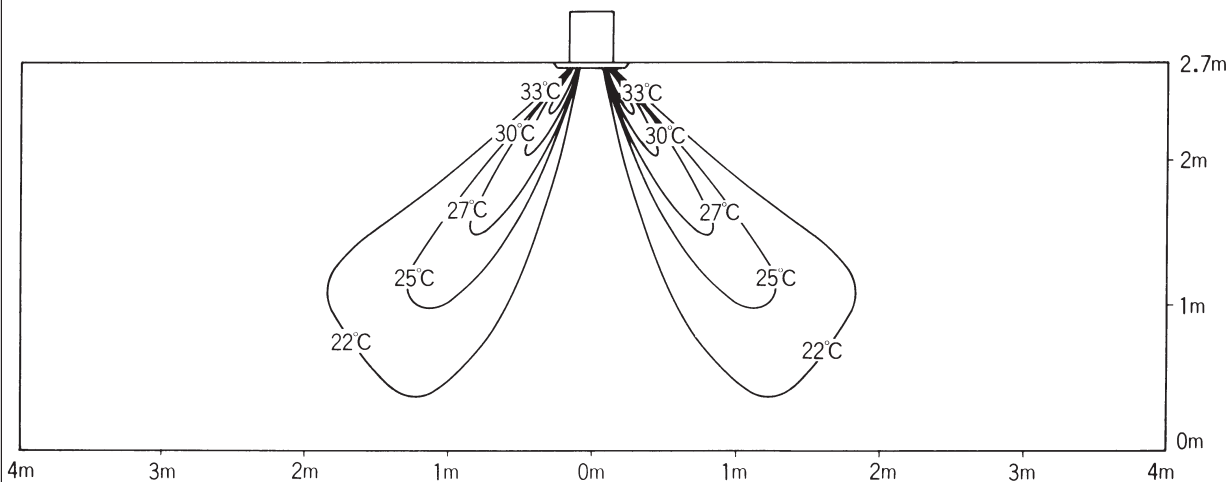
Heating Air velocity distribution

9m³/min flow rate blow unit (KDG590D9) used



Heating Temperature distribution

9m³/min flow rate blow unit (KDG590D9) used



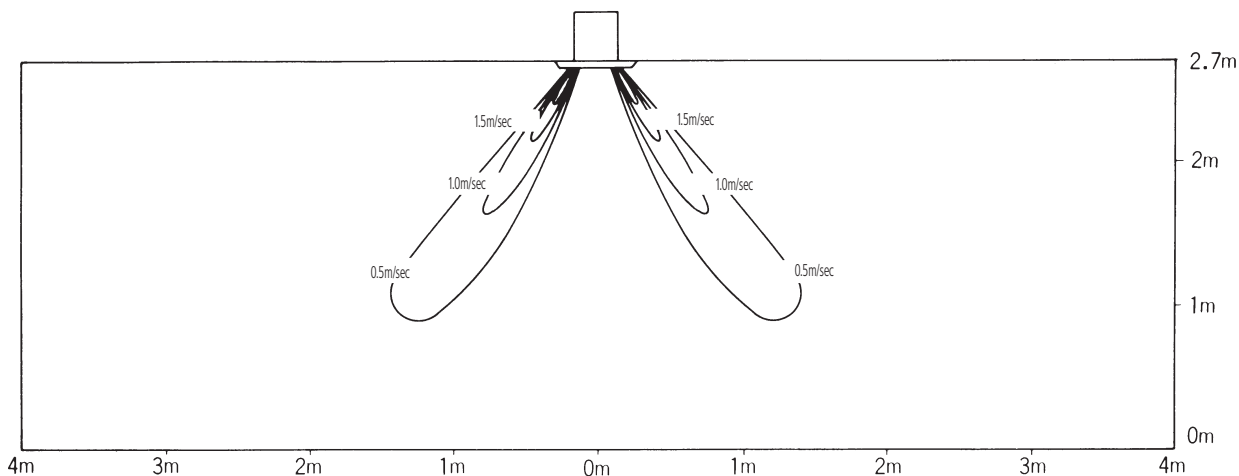
10 Air flow pattern & fan characteristics

10-1 Air flow pattern

FXYSP125KA7V19

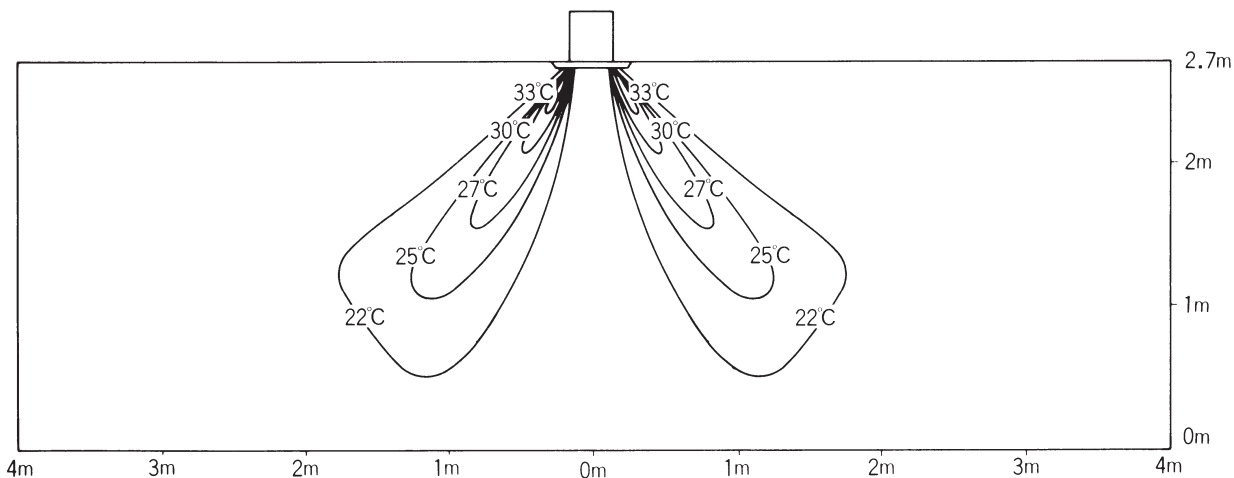
Heating Air velocity distribution

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



Heating Temperature distribution

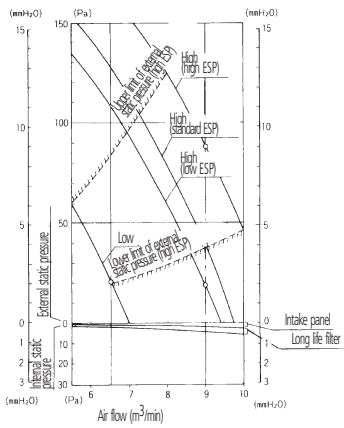
9m³/min flow rate blow unit (KDGS90D9) used



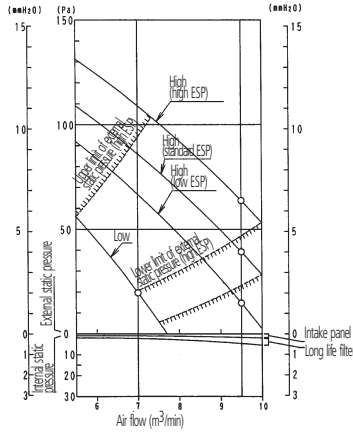
10 Air flow pattern & fan characteristics

10-2 Fan characteristics

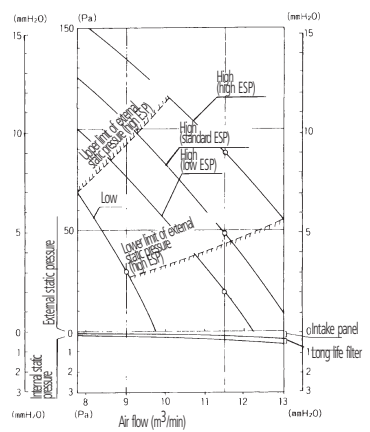
FXYSP20,25KA7V19



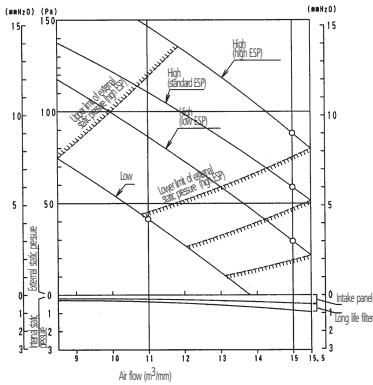
FXYSP32KA7V19



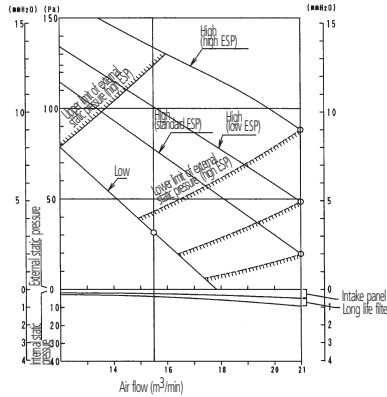
FXYSP40KA7V19



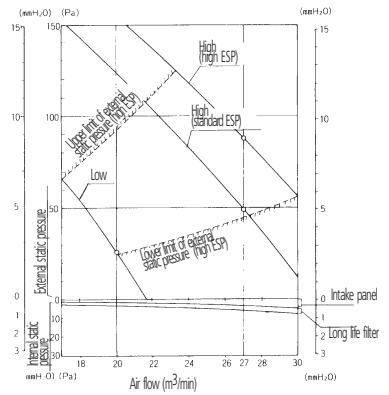
FXYSP50KA7V19



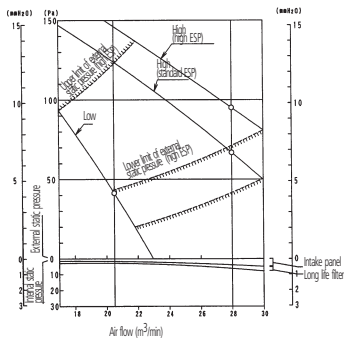
FXYSP63KA7V19



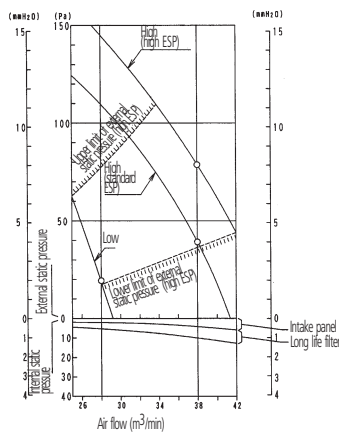
FXYSP80KA7V19



FXYSP100KA7V19



FXYSP125KA7V19

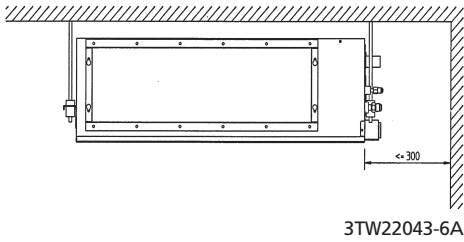


NOTES

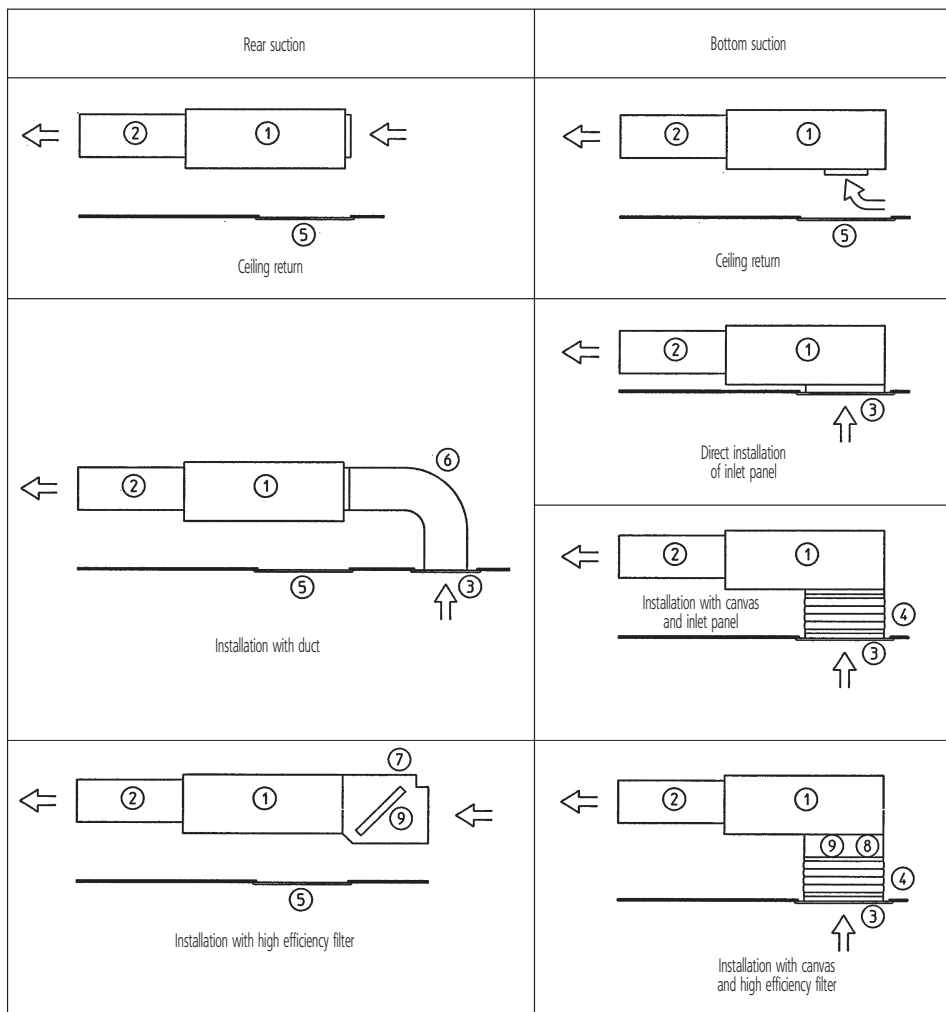
- 1 The remote control can be used to switch between "high" and "low".
- 2 The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the terminals in the indoor unit electrical box.
- 3 The internal static pressure indicates 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



11-2 Installation methods

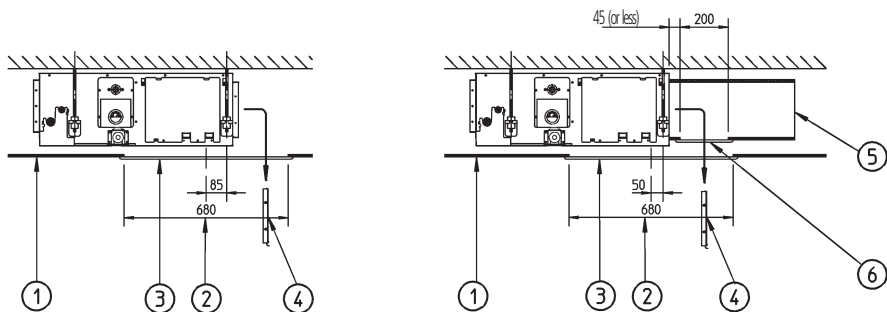


3TW22043-4

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

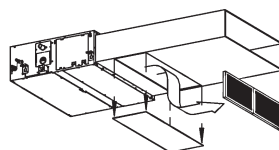
11-3 Filter installation method



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



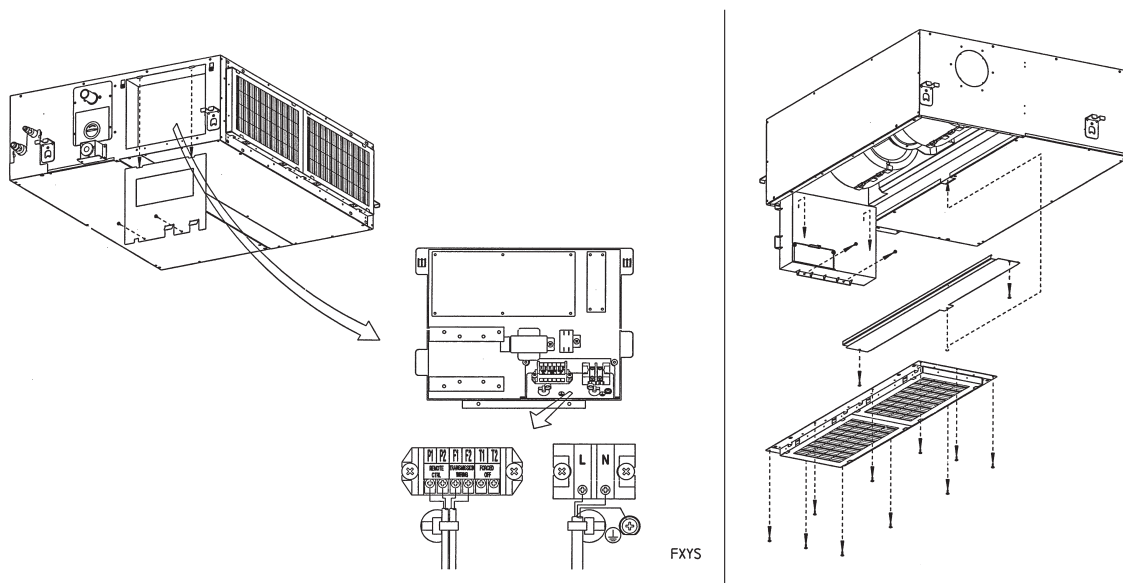
NOTES

- When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.
- When installing the unit with a suction duct, a service opening must be provided in the duct.
- An optional service access panel is available.

Model	Service access panel
FXYSP20,25,32KA7V19	KTBJ25K36W
FXYSP40,50KA7V19	KTBJ25K56W
FXYSP63KA7V19	KTBJ25K80W
FXYSP80,125KA7V19	KTBJ25K160W

3TW22044-3B

11-4 Switch box connections



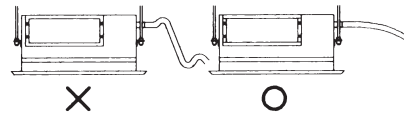
3TW22043-5A

11 Installation

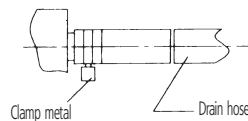
11-5 Drain piping

11-5-1 Install the drain pipes

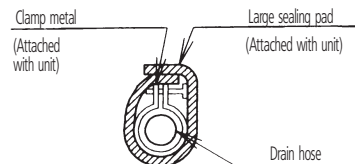
- Keep piping as short as possible and slope it downwards so that air may not remain trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (Vinyl pipe of 25 mm nominal diameter and 32 mm outer diameter)



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



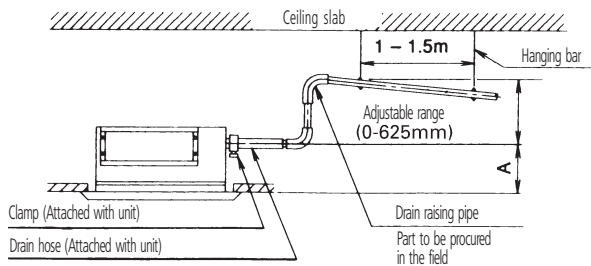
- Insulate the clamp with the attached sealing pad.



- Insulate the drain hose inside the building.

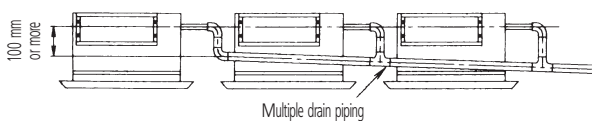
How to install piping

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.

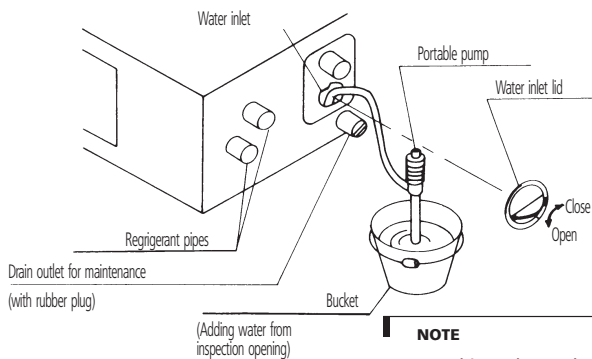


11 Installation

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.








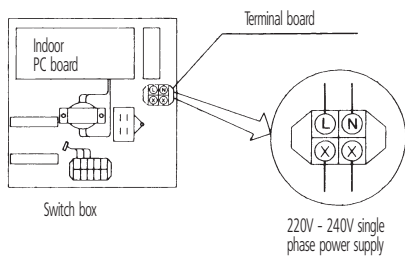
NOTE
1 Use this outlet to drain water from the drain pan.

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 “” 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 “” to go back to the first mode.



2

VRV™
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.



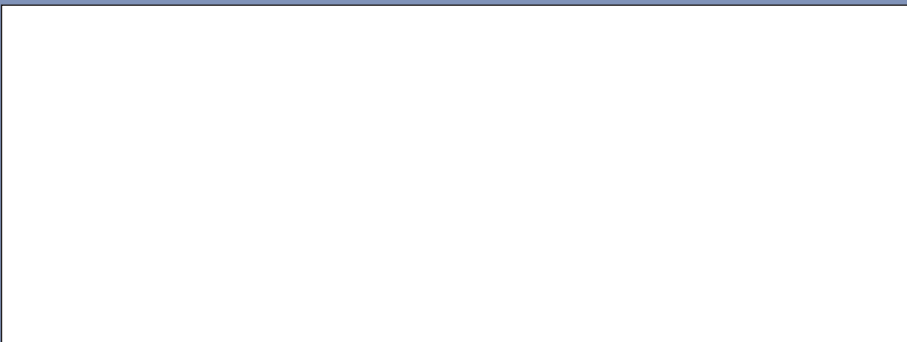
Daikin units comply with the European regulations that guarantee the safety of the product.



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.

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

Specifications are subject to change without prior notice



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