

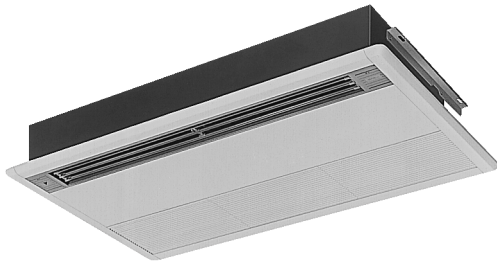
FXK-L

Ceiling Mounted Cassette Corner Type

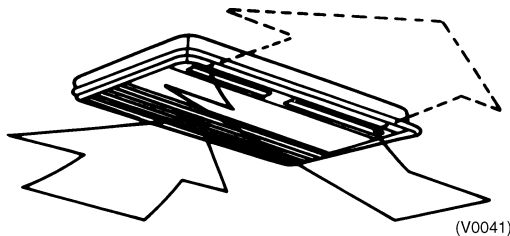
1. Features	140
2. Specifications	141
3. Dimensions	142
4. Piping Diagrams	144
5. Wiring Diagrams.....	145
6. Capacity Tables	146
6.1 Cooling Capacity	146
6.2 Heating Capacity	148
7. Air Velocity and Temperature Distributions (Reference Data).....	149
8. Electric Characteristics.....	150
9. Sound Levels	151
10. Installation	152
11. Accessories	155

1. Features

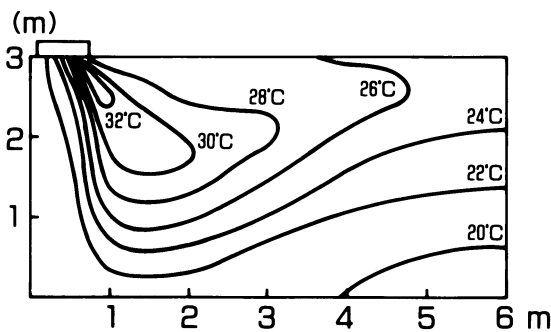
215 mm-thick body features discreet, slim design and offers a wide variety of discharge methods and mounting such as in corners or in suspended ceilings, etc.



- Single-flow type offers effective air discharge from corners or from a suspended ceiling.

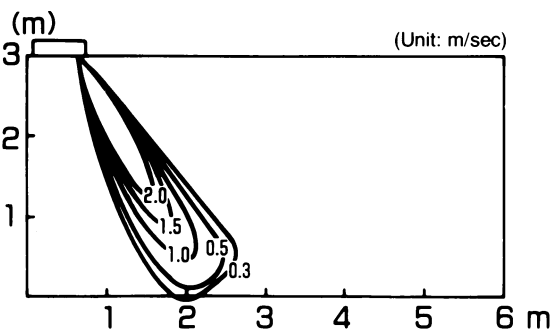


- Thin, discreet design enables mounting when the ceiling pocket is as shallow as 22 cm
- Temperature Distribution (FXK63L: downward discharge angle 65° in heating.)



(V0042)

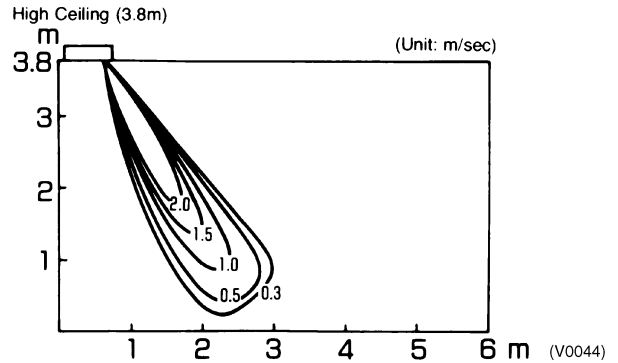
- Air velocity Distribution (FXK63L: downward discharge angle 65° in heating.)



(V0043)

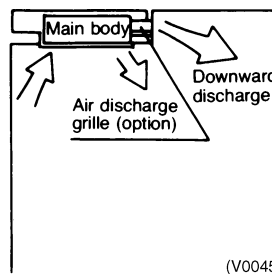
- Air volume switch built into the main body allows

mounting in ceilings as high as 3.8 m. This unit is even able to handle spaces with a split level ceiling by accurately adjusting air volume in accordance with the ceiling height.

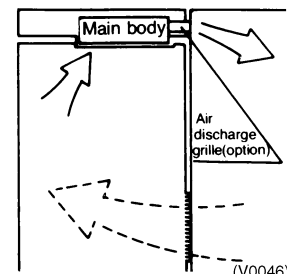


(V0044)

- The 63 class (equivalent to 2.5HP) features extremely quiet operation, only 42 dBA of sound level.
- In addition to downward discharge, front discharge (straight discharge, neither angled upward nor downward) can be provided by mounting an air discharge unit (optional) to the front of the body; can be mounted even with difficult elements such as suspended ceilings and sagging walls. A combination of front and downward discharge is also possible. (Auto-swing cannot be used with front discharge.)



(V0045)



(V0046)

* Set for front discharge using a suspended ceiling Downward discharge is shut off and air is blown straight out (front discharge)

- Equipped with a programmed drying mechanism that dehumidifies while inhibiting changes in room temperature.
- Includes as standard equipment a long-life filter that is maintenance-free for approximately one year. (Treated to mold resistant.)
- Equipped with drain pump kit that makes possible draining in the upward direction up to 500 mm from the ceiling surface.
- Decoration panel is thin and unimposing, doesn't clash with interior design and provides an excellent finishing touch for the ceiling. (Available in white.)
- If the ceiling pocket is shallow and the main body will not fit, a thick panel that provides aesthetically appealing cover for the exposed portion (up to 20 mm) is available as an option.

2. Specifications

Ceiling Mounted Cassette Corner Type

Model		FXK25LVE		FXK32LVE		FXK40LVE		FXK63LVE			
★1 Cooling Capacity (19.5°CWB)	kcal/h	2,500		3,150		4,000		6,300			
	Btu/h	9,900		12,500		15,900		25,000			
	kW	2.9		3.7		4.7		7.3			
★2 Cooling Capacity (19.0°CWB)		kW	2.8		3.6		4.5		7.1		
★3 Heating Capacity	kcal/h	2,800		3,400		4,300		6,900			
	Btu/h	10,900		13,600		17,000		27,300			
	kW	3.2		4.0		5.0		8.0			
Casing		Galvanized Steel Plate		Galvanized Steel Plate		Galvanized Steel Plate		Galvanized Steel Plate			
Dimensions: (HxWxD)		mm	215x1,110x710		215x1,110x710		215x1,110x710		215x1,310x710		
Coil (Cross Fin Coil)	RowsxStagesxFin Pitch	mm	2x11x1.75		2x11x1.75		2x11x1.75		3x11x1.75		
	Face Area	m ²	0.180		0.180		0.180		0.226		
Fan	Model		3D12H1AN1V1		3D12H1AN1V1		3D12H1AP1V1		4D12H1AJ1V1		
	Type		Sirocco Fan		Sirocco Fan		Sirocco Fan		Sirocco Fan		
	Motor Output x Number of Units		W	15x1		15x1		20x1		45x1	
	Air Flow Rate (H/L)	50Hz	m ³ /min	11/9		11/9		13/10		18/15	
			cfm	388/318		388/318		459/353		635/530	
	60Hz	m ³ /min	11/8.5		11/8.5		13/10		18/13		
cfm		388/300		388/300		459/353		635/459			
Drive		Direct Drive		Direct Drive		Direct Drive		Direct Drive			
Temperature Control		Microprocessor Thermostat for Cooling and Heating		Microprocessor Thermostat for Cooling and Heating		Microprocessor Thermostat for Cooling and Heating		Microprocessor Thermostat for Cooling and Heating			
Sound Absorbing Thermal Insulation Material		Polyethylene Foam		Polyethylene Foam		Polyethylene Foam		Polyethylene Foam			
Piping Connections	Liquid Pipes	mm	φ6.4 (Flare Connection)		φ6.4 (Flare Connection)		φ6.4 (Flare Connection)		φ9.5 (Flare Connection)		
	Gas Pipes	mm	φ12.7 (Flare Connection)		φ12.7 (Flare Connection)		φ12.7 (Flare Connection)		φ15.9 (Flare Connection)		
	Drain Pipe	mm	VP25 (External Dia. 32 Internal Dia. 25)		VP25 (External Dia. 32 Internal Dia. 25)		VP25 (External Dia. 32 Internal Dia. 25)		VP25 (External Dia. 32 Internal Dia. 25)		
Machine Weight		kg	31		31		31		34		
★5 Sound Level (H/L) (220V)		dBA	38/33		38/33		40/34		42/37		
Safety Devices		Fuse, Thermal Fuse for Fan Motor		Fuse, Thermal Fuse for Fan Motor		Fuse, Thermal Fuse for Fan Motor		Fuse, Thermal Fuse for Fan Motor			
Refrigerant Control		Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve			
Connectable Outdoor Units		R22 ; K-Series R407C ; K or L Series		R22 ; K-Series R407C ; K or L Series		R22 ; K-Series R407C ; K or L Series		R22 ; K-Series R407C ; K or L Series			
Decoration Panels (Option)	Model		BYK45FJW1		BYK45FJW1		BYK45FJW1		BYK71FJW1		
	Panel Color		White (10Y9/0.5)		White (10Y9/0.5)		White (10Y9/0.5)		White (10Y9/0.5)		
	Dimensions: (HxWxD)	mm	70x1,240x800		70x1,240x800		70x1,240x800		70x1,440x800		
	Air Filter		Resin Net (with Mold Resistant)		Resin Net (with Mold Resistant)		Resin Net (with Mold Resistant)		Resin Net (with Mold Resistant)		
	Weight	kg	8.5		8.5		8.5		9.5		
Standard Accessories		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad.		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad.		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad.		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad.			
Drawing No.		3D037070									

Notes:

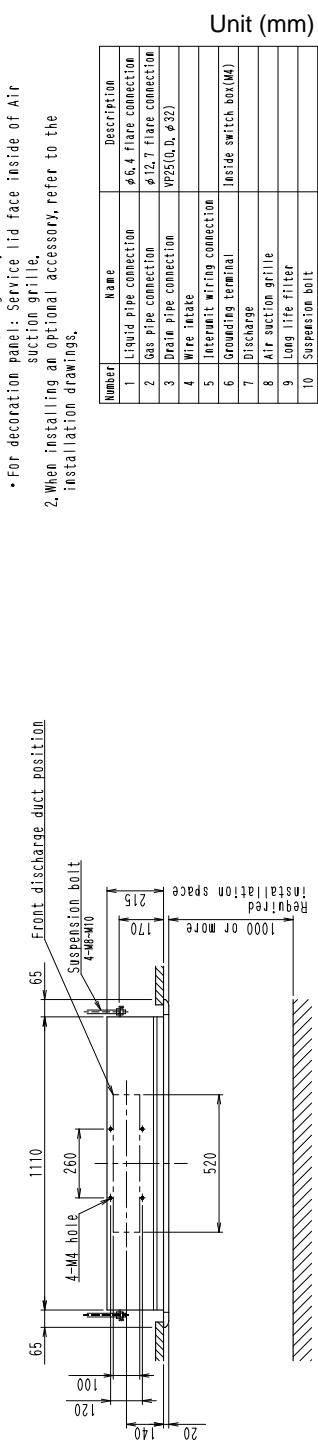
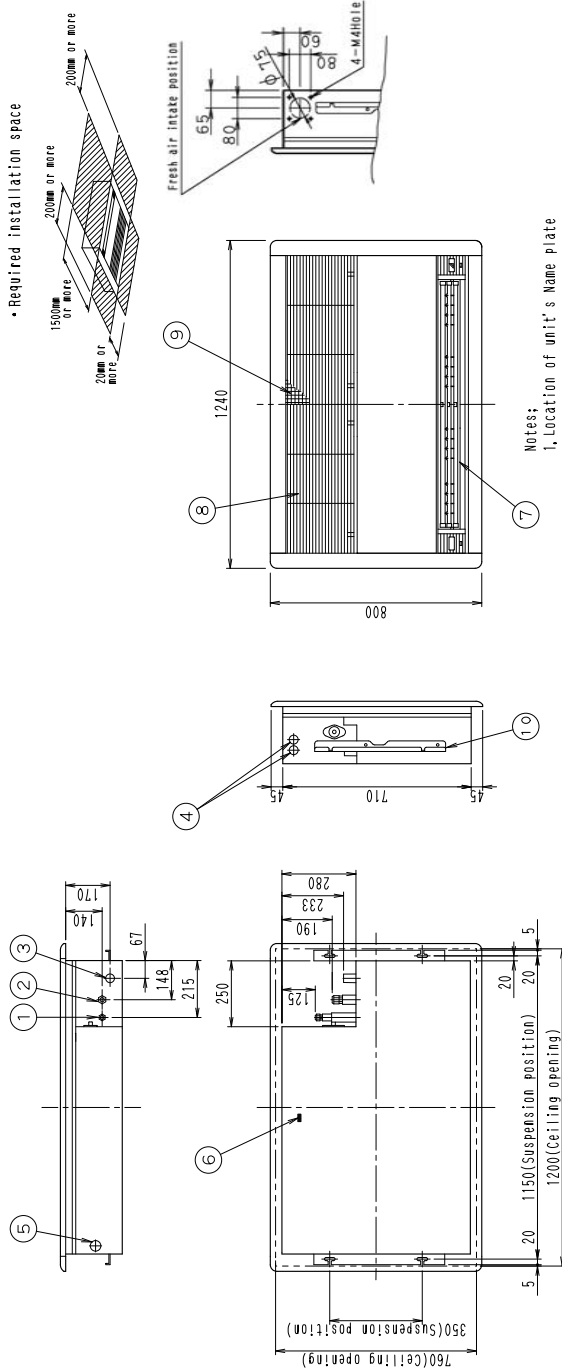
- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5m, level difference: 0m. (Heat pump only)
- 4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5 Anechoic chamber conversion value, measured at a point 1m in front of the unit and 1m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 6 Refer to page 150 for Fan Motor Input.

Conversion Formulae

$$\begin{aligned} \text{kcal/h} &= \text{kW} \times 860 \\ \text{Btu/h} &= \text{kW} \times 3414 \\ \text{cfm} &= \text{m}^3/\text{min} \times 35.3 \end{aligned}$$

3. Dimensions

- FXK25L + BYK45FJW1 (Decoration Panel)
- FXK32L + BYK45FJW1 (Decoration Panel)
- FXK40L + BYK45FJW1 (Decoration Panel)

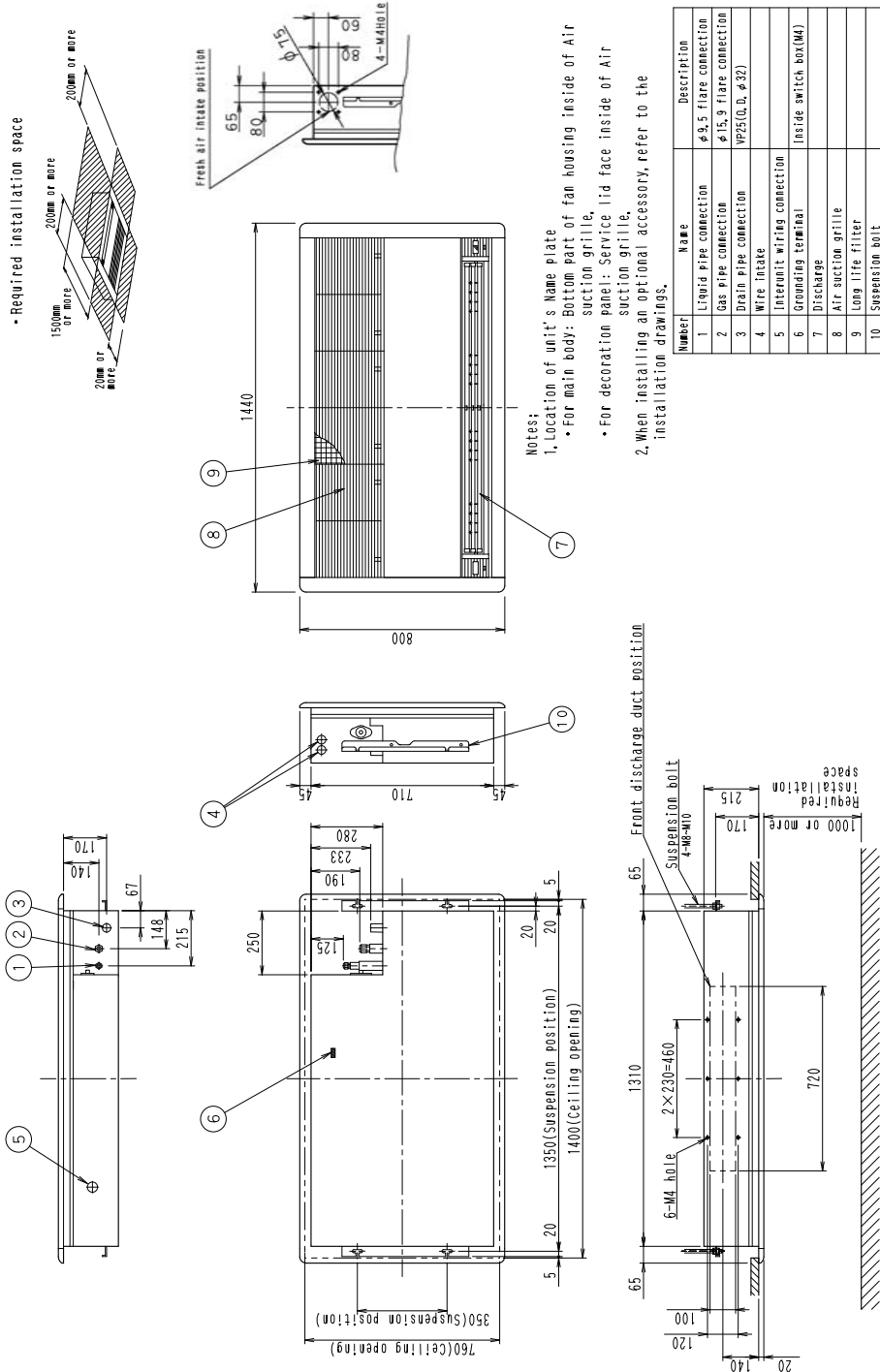


Number	Name	Description
1	Liquid pipe connection	φ6.4 flare connection
2	Gas pipe connection	φ12.7 flare connection
3	Drain pipe connection	VP25(Q.D. φ32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box(M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

Unit (mm)

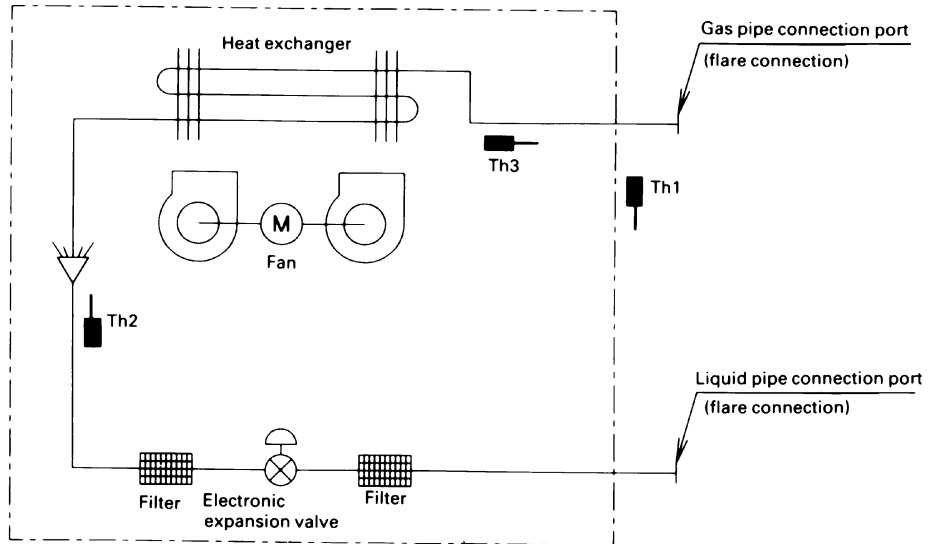
3D037074

FXK63L + BYK71FJW1 (Decoration Panel)



3D037075

4. Piping Diagrams



Th1: Thermister for suction air temp.
 Th2: Thermister for liquid line temp.
 Th3: Thermister for gas line temp.

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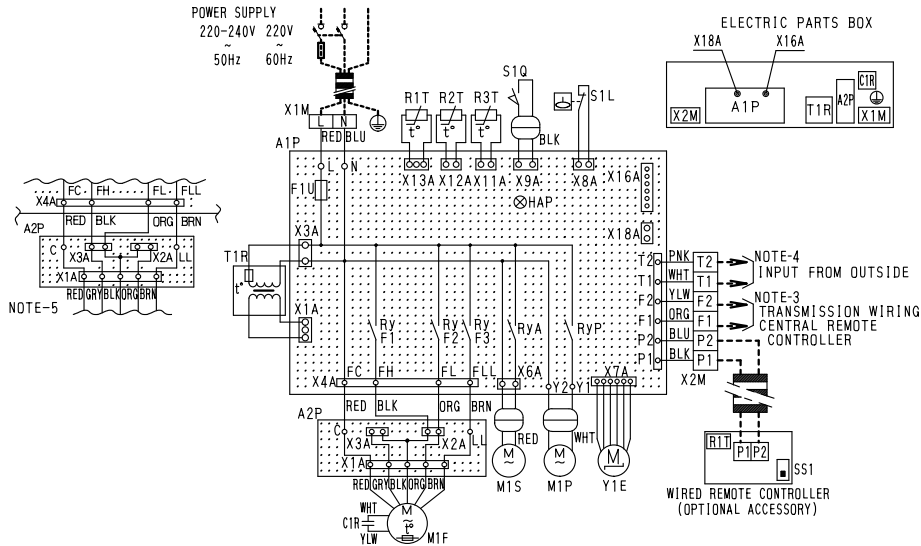
■ Refrigerant pipe connection port diameters

(mm)

Model	Gas	Liquid
FXK25L / 32L / 40L	φ12.7	φ6.4
FXK63L	φ15.9	φ9.5

5. Wiring Diagrams

FXK 25L / 32L / 40L / 63LVE



A1P	PRINTED CIRCUIT BOARD	RYA	MAGNETIC RELAY(M1S)
A2P	TERMINAL BOARD	RYF1-3	MAGNETIC RELAY(M1F)
C1R	CAPACITOR (M1F)	RYP	MAGNETIC RELAY(M1P)
F1T	THERMAL FUSE(105%) (M1F EMBEDDED)	S1L	FLOAT SWITCH
F1U	FUSE(250V, 5A, ⊕) OR F5T 250V	T1R	TRANSFORMER(220-240V/22V)
		X1M	TERMINAL STRIP(POWER)
HAP	LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN)	X2M	TERMINAL STRIP(CONTROL)
		Y1E	ELECTRONIC EXPANSTION VALVE
M1F	MOTOR (INDOOR FAN)		WIRED REMOTE CONTROLLER
M1P	MOTOR (DRAIN PUMP)	R1T	THERMISTOR(AIR)
M1S	MOTOR (SWING FLAP)	SS1	SELECTOR SWITCH (MAIN/SUB)
R1T	THERMISTOR(AIR)		CONNECTOR FOR OPTIONAL PARTS
R2T·3T	THERMISTOR(COIL)	X16A	CONNECTOR(ADAPTOR FOR WIRING)
		X18A	CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES)

- NOTES) 1. □□□□ : TERMINAL BLOCK, ⊞, ⊞, ⊞ : CONNECTOR, ○ : TERMINAL
 2. - - - : FIELD WIRING
 3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
 4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
 5. IN CASE HIGH E.S.P. OPERATION, CHANGE OVER THE WIRING CONNECTION FROM X2A TO X3A.
 6. SYMBOLS SHOW AS FOLLOWS, (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN GRY:GRAY)
 7. USE COPPER CONDUCTORS ONLY.

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6. Capacity Tables

6.1 Cooling Capacity

FXK – L

Unit Size	Outdoor air temp. °CDB	Cooling capacity													
		Indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
25	10.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	12.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	14.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	16.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	18.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	20.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	21.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	23.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.7	2.5
	25.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.6	2.5
	27.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.5	2.5
	29.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.5	2.5
	31.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.2	2.5	3.4	2.5
	33.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.2	2.5	3.4	2.4
35.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	2.9	2.5	3.1	2.4	3.3	2.4	
37.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	2.9	2.5	3.1	2.4	3.2	2.4	
39.0	1.9	1.9	2.3	2.2	2.6	2.3	2.7	2.3	2.8	2.4	3.0	2.4	3.2	2.4	
32	10.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	12.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	14.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	16.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	18.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	20.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	21.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	23.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
	25.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.6	2.9
	27.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.6	2.9
	29.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.2	2.9	4.5	2.8
	31.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.2	2.8	4.4	2.8
	33.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.1	2.8	4.3	2.8
35.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.8	4.0	2.8	4.2	2.8	
37.0	2.5	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.7	2.8	3.9	2.8	4.2	2.8	
39.0	2.5	2.2	2.9	2.5	3.4	2.6	3.5	2.7	3.6	2.8	3.9	2.8	4.1	2.7	
40	10.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	12.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	14.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	16.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	18.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	20.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	21.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	23.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.9	3.5
	25.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.8	3.5
	27.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.7	3.4
	29.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.6	3.4
	31.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.2	3.3	5.5	3.3
	33.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.8	3.3	5.1	3.3	5.4	3.3
35.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.7	3.2	5.0	3.3	5.3	3.3	
37.0	3.1	2.6	3.7	2.9	4.2	3.2	4.5	3.2	4.6	3.2	4.9	3.2	5.2	3.2	
39.0	3.1	2.6	3.7	2.9	4.2	3.2	4.4	3.2	4.5	3.2	4.8	3.2	5.1	3.2	

Cooling capacity

Unit Size	Outdoor air temp. °CDB	Indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
63	10.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	12.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	14.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	16.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	18.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	20.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	21.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	23.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	25.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.1	5.5
	27.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.4	5.4	9.0	5.4
	29.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.3	5.3	8.8	5.3
	31.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.2	5.3	8.7	5.3
	33.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.5	5.2	8.0	5.2	8.5	5.2
	35.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.4	5.1	7.9	5.1	8.4	5.1
	37.0	4.9	4.1	5.8	4.5	6.7	5.0	7.1	5.1	7.3	5.1	7.8	5.1	8.2	5.1
	39.0	4.9	4.1	5.8	4.5	6.7	5.0	6.9	5.0	7.2	5.0	7.6	5.0	8.1	5.0

TC : Total capacity ; kW
 SHC : Sensible heat capacity ; kW



Refer to Outdoor Unit Capacity Tables (in case of Inverter (5, 8, 10HP) : on page 380~, in case of PLUS (16~30HP) : on page 480~) for the actual performance data of each indoor and outdoor unit combination.

6.2 Heating Capacity

FXK-L

Heating Capacity

Unit Size	Outdoor air temp.		Indoor air temp.°CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
25	-13.7	-15.0	2.2	2.2	2.2	2.1	2.1	2.1
	-11.8	-13.0	2.3	2.3	2.3	2.3	2.2	2.2
	-9.8	-11.0	2.4	2.4	2.4	2.4	2.4	2.3
	-9.5	-10.0	2.5	2.5	2.4	2.4	2.4	2.4
	-8.5	-9.1	2.6	2.5	2.5	2.5	2.5	2.4
	-7.0	-7.6	2.7	2.6	2.6	2.6	2.5	2.5
	-5.0	-5.6	2.8	2.7	2.7	2.7	2.7	2.6
	-3.0	-3.7	2.9	2.8	2.8	2.8	2.8	2.7
	0.0	-0.7	3.0	3.0	3.0	2.9	2.9	2.7
	3.0	2.2	3.2	3.2	3.1	3.1	2.9	2.7
	5.0	4.1	3.3	3.3	3.2	3.1	2.9	2.7
	7.0	6.0	3.4	3.4	3.2	3.1	2.9	2.7
	9.0	7.9	3.5	3.5	3.2	3.1	2.9	2.7
	11.0	9.8	3.7	3.5	3.2	3.1	2.9	2.7
	13.0	11.8	3.7	3.5	3.2	3.1	2.9	2.7
15.0	13.7	3.7	3.5	3.2	3.1	2.9	2.7	
32	-13.7	-15.0	2.8	2.7	2.7	2.7	2.7	2.6
	-11.8	-13.0	2.9	2.9	2.8	2.8	2.8	2.8
	-9.8	-11.0	3.1	3.0	3.0	3.0	2.9	2.9
	-9.5	-10.0	3.1	3.1	3.1	3.0	3.0	3.0
	-8.5	-9.1	3.2	3.2	3.1	3.1	3.1	3.0
	-7.0	-7.6	3.3	3.3	3.2	3.2	3.2	3.1
	-5.0	-5.6	3.5	3.4	3.4	3.3	3.3	3.3
	-3.0	-3.7	3.6	3.5	3.5	3.5	3.5	3.4
	0.0	-0.7	3.8	3.8	3.7	3.7	3.7	3.4
	3.0	2.2	4.0	4.0	3.9	3.8	3.7	3.4
	5.0	4.1	4.2	4.1	4.0	3.8	3.7	3.4
	7.0	6.0	4.3	4.2	4.0	3.8	3.7	3.4
	9.0	7.9	4.4	4.3	4.0	3.8	3.7	3.4
	11.0	9.8	4.6	4.3	4.0	3.8	3.7	3.4
	13.0	11.8	4.6	4.3	4.0	3.8	3.7	3.4
15.0	13.7	4.6	4.3	4.0	3.8	3.7	3.4	
40	-13.7	-15.0	3.5	3.4	3.4	3.3	3.3	3.3
	-11.8	-13.0	3.7	3.6	3.6	3.5	3.5	3.5
	-9.8	-11.0	3.8	3.8	3.7	3.7	3.7	3.6
	-9.5	-10.0	3.9	3.9	3.8	3.8	3.8	3.7
	-8.5	-9.1	4.0	4.0	3.9	3.9	3.8	3.8
	-7.0	-7.6	4.1	4.1	4.0	4.0	4.0	3.9
	-5.0	-5.6	4.3	4.3	4.2	4.2	4.1	4.1
	-3.0	-3.7	4.5	4.4	4.4	4.3	4.3	4.2
	0.0	-0.7	4.8	4.7	4.6	4.6	4.6	4.2
	3.0	2.2	5.0	5.0	4.9	4.8	4.6	4.2
	5.0	4.1	5.2	5.1	5.0	4.8	4.6	4.2
	7.0	6.0	5.4	5.3	5.0	4.8	4.6	4.2
	9.0	7.9	5.5	5.4	5.0	4.8	4.6	4.2
	11.0	9.8	5.7	5.4	5.0	4.8	4.6	4.2
	13.0	11.8	5.8	5.4	5.0	4.8	4.6	4.2
15.0	13.7	5.8	5.4	5.0	4.8	4.6	4.2	
63	-13.7	-15.0	5.6	5.5	5.4	5.4	5.3	5.3
	-11.8	-13.0	5.8	5.8	5.7	5.6	5.6	5.5
	-9.8	-11.0	6.1	6.0	6.0	5.9	5.9	5.8
	-9.5	-10.0	6.3	6.2	6.1	6.1	6.0	5.9
	-8.5	-9.1	6.4	6.3	6.2	6.2	6.1	6.1
	-7.0	-7.6	6.6	6.5	6.5	6.4	6.4	6.3
	-5.0	-5.6	6.9	6.8	6.7	6.7	6.6	6.6
	-3.0	-3.7	7.2	7.1	7.0	7.0	6.9	6.8
	0.0	-0.7	7.6	7.5	7.4	7.4	7.3	6.8
	3.0	2.2	8.1	7.9	7.8	7.7	7.4	6.8
	5.0	4.1	8.3	8.2	8.0	7.7	7.4	6.8
	7.0	6.0	8.6	8.5	8.0	7.7	7.4	6.8
	9.0	7.9	8.9	8.6	8.0	7.7	7.4	6.8
	11.0	9.8	9.1	8.6	8.0	7.7	7.4	6.8
	13.0	11.8	9.2	8.6	8.0	7.7	7.4	6.8
15.0	13.7	9.2	8.6	8.0	7.7	7.4	6.8	

TC : Total capacity ; kW
 SHC : Sensible heat capacity ; kW

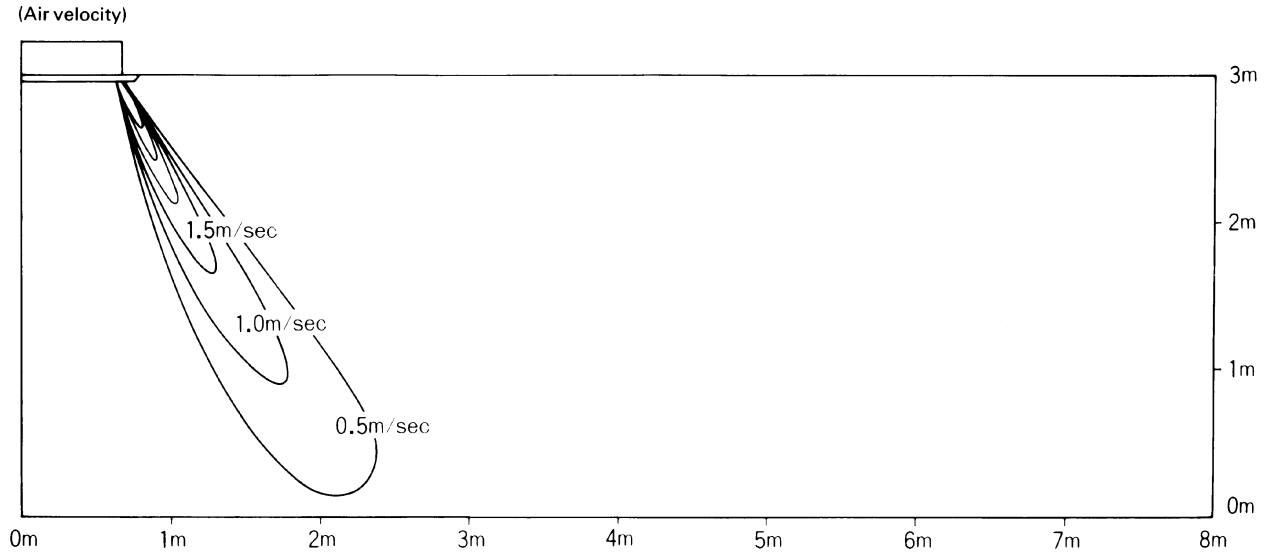


Refer to Outdoor Unit Capacity Tables (in case of Inverter (5, 8, 10HP) : on page 380~, in case of PLUS (16~30HP) : on page 480~) for the actual performance data of each indoor and outdoor unit combination.

7. Air Velocity and Temperature Distributions (Reference Data)

FXK63L

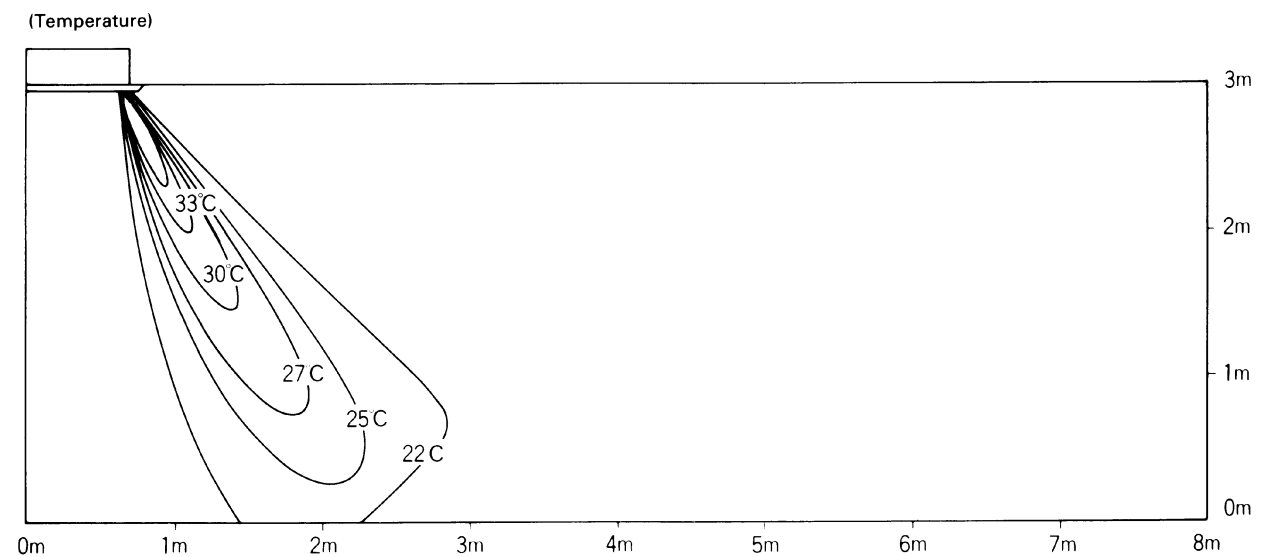
(Heating-Air Velocity Distribution)
Lower Air Flow



(V0460)

FXK63L

(Heating-Temperature Distribution)
Lower Air Flow



(V0461)

Note:

The corner type is applicable on a high ceiling. The standard setup height is 3m. Shown here is the measurement distribution at the ceiling height of 3m.

8. Electric Characteristics

Model	Units				Power supply		IFM		Input(W)	
	Type	Hz	Volts	Voltage range	MCA	MFA	KW	FLA	Cooling	Heating
FXX25L	VE	50	220-240	MAX. 264 Min. 198	0.3	15	0.015	0.2	66	46
FXX32L					0.3	15	0.015	0.2	66	46
FXX40L					0.3	15	0.020	0.2	76	56
FXX63L					0.5	15	0.045	0.4	105	85
FXX25L	VE	60	220	MAX. 242 Min. 198	0.4	15	0.015	0.3	69	49
FXX32L					0.4	15	0.015	0.3	69	49
FXX40L					0.5	15	0.020	0.4	92	72
FXX63L					0.6	15	0.045	0.5	120	100

Symbols :

- MCA : Min. Circuit Amps (A)
 MFA : Max. Fuse Amps (See note 5)
 KW : Fan Motor Rated Output(KW)
 FLA : Full Load Amps(A)
 IFM : Indoor Fan Motor

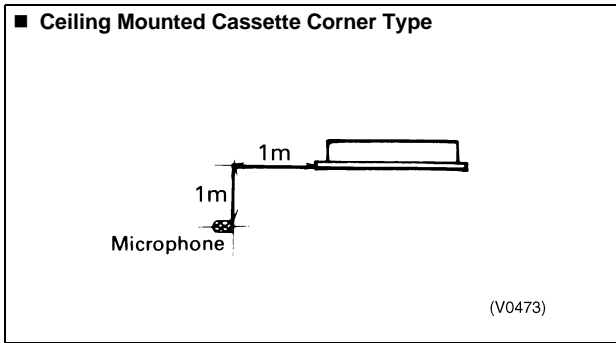
Note :

- Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits,
- Maximum allowable voltage unbalance between phases is 2%.
- MCA/MFA
 $MCA = 1.25 \times FLA$
 $MFA \leq 4 \times FLA$
 (Next lower standard fuse rating. Min. 15A)
- Select wire size based on the MCA.
- Instead of fuse, use Circuit Breaker.

4D037076

9. Sound Levels

Overall



Notes:

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

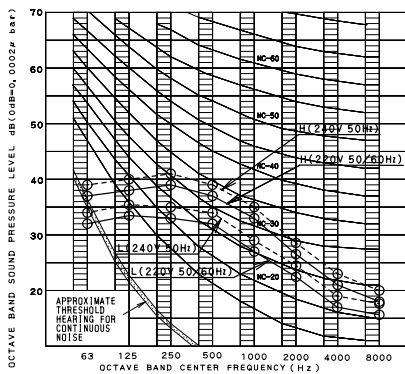
dBA

Model	220V 50/60Hz		240V 50/60Hz	
	H	L	H	L
FXK25L FXK32L	38	33	40	35
FXK40L	40	34	42	36
FXK63L	42	37	44	39

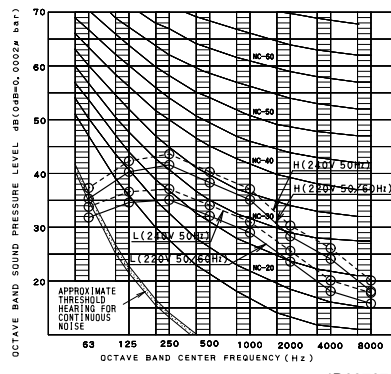
Octave Band Level

- — ○ 220V
- - - - ○ 240V

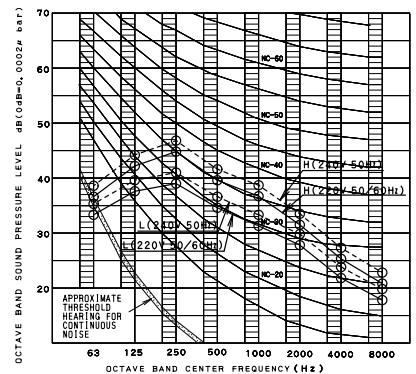
FXK25L-32LVE



FXK40LVE

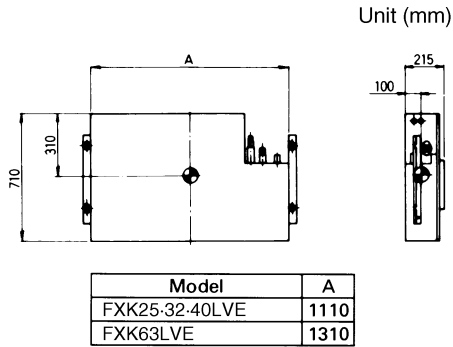


FXK63LVE



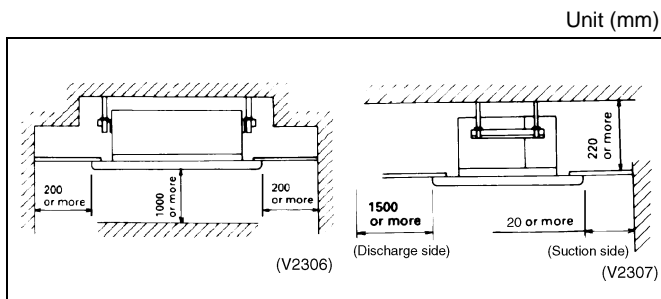
10. Installation

Center of Gravity



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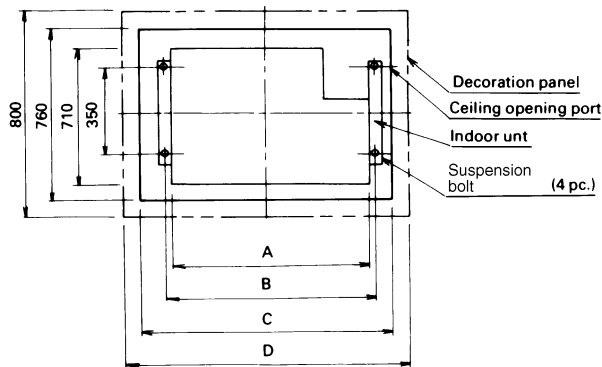
Service Space



Note:

Above figure means minimum value. Please keep these value at least.

Bolt Pitch



Unit (mm)

Name of unit	A	B	C	D
FXK25-32-40L	1110	1150	1200	1240
FXK63L	1310	1350	1400	1440

(V2308)

Drain Pump Kit

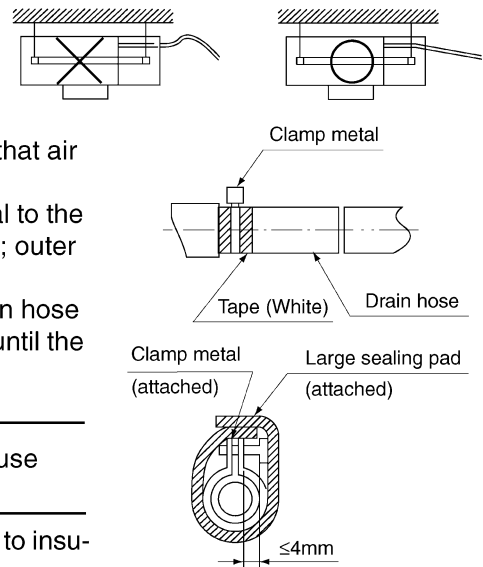
Indoor unit	Drain pump kit
FXK~L	Standard (Equipped with indoor unit)

Drain Piping

«Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.»

(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.
The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 25 mm; outer dimension: 32 mm).
Use the attached drain hose and clamp metal. Insert the drain hose into the drain socket, up to the white tape. Tighten the clamp until the screw head is less than 4 mm from the hose.



CAUTION
Setting the unit at an angle opposite to the drain piping might cause leaks.

Wrap the attached sealing pad over the clamp and drain hose to insulate.

Insulate the drain hose inside the building.

While referring to the figure on the right, insulate the clamp and drain hose with the attached large sealing pad.

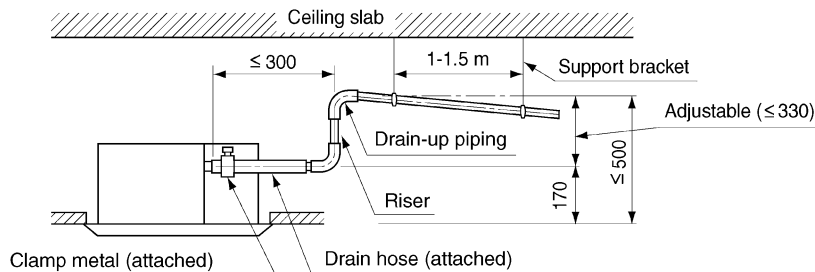
If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.

Secure a downward gradient of 1/100 or more for the drain pipe. To accomplish this, mount supporting brackets at an interval of 1 - 1.5 m.

Precautions when doing drain-up piping work.

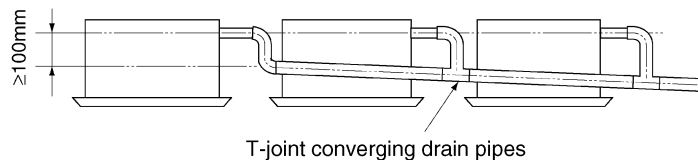
Make sure the drain-up piping is at most 330 mm high.

Stand the drain-up piping horizontally, and make sure it is not further than 300 mm from the base of the drain socket.



Use the following outline if laying concentrated drain piping.

If converging multiple drain pipes, install according to the procedure shown below.



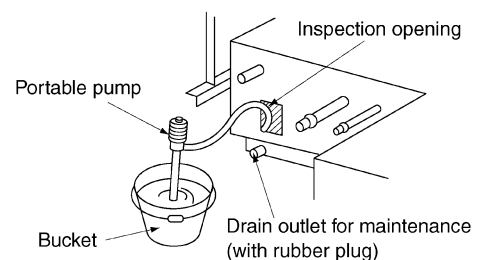
Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

(2) After piping work is finished, check drainage flows smoothly.

Open the inspection opening, add approximately 1000 cc of water slowly into the drain pan and check drainage flow.

NOTE

Use the drain outlet for maintenance to drain water from the drain pan.








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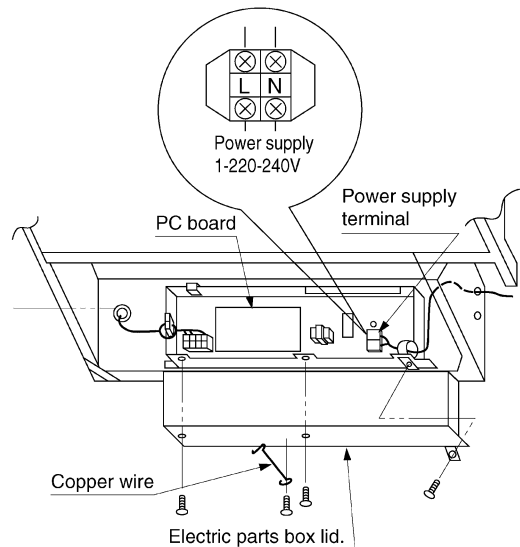
WHEN ELECTRIC WIRING WORK IS FINISHED

- Check drainage flow during COOL running, explained under “TESTOPERATION”.

WHEN ELECTRIC WIRING WORK IS NOT FINISHED

Remove the electric parts box lid, connect a power supply and remote controller to the terminals.
(Refer to the **Installation Manuals**)

Next, press the inspection/test operation button “” on the remote controller. 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.

**CAUTION****Drain piping connections**






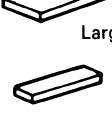

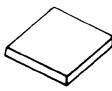
Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.



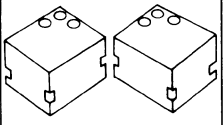

3P086156-4A-10

11. Accessories

Standard Accessories

FXK25L-63L

Name	Clamp metal	Paper pattern for installation	Drain hose	Insulation for fitting	Sealing pad	Insulation for hanger bracket
Quantity	1	1	1 pc.	1 set	Large and small 1 each	4
Shape		 Corrugated cardboard		 for gas pipe  for liquid pipe	 Large  Small	

Name	Washer for hanging bracket	Clamp	Positioning jig for installation	Air outlet blocking pad	(Other)
Quantity	8	7	2 each	1	<ul style="list-style-type: none"> • Operation manual • Installation manual
Shape			 4 screws		<ul style="list-style-type: none"> • Screws for fixing panels are attached to air inlet panel.

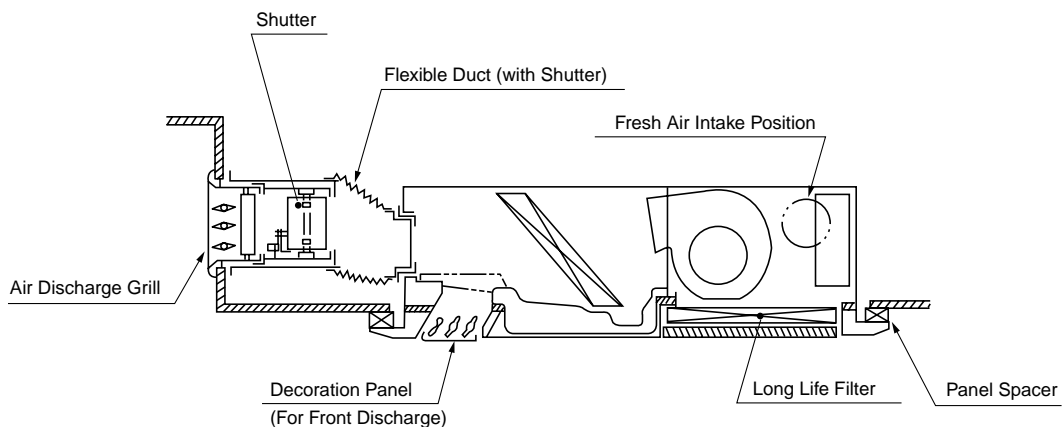
3P086156-4A-3

Optional Accessories (For Unit)

Item		Type	FXK25L FXK32L FXK40L	FXK63L
Panel related	Decoration Panel		BYK45FJW1	BYK71FJW1
	Long life replacement filter		KAFJ521F56	KAFJ521F80
Air inlet and air discharge outlet related	Air discharge grill		K-HV7AW	K-HV9AW
	Air discharge blind panel		KDBJ52F56W	KDBJ52F80W
	Panel Spacer		KPBJ52F56W	KPBJ52F80W
	Flexible duct (with shutter)		KFDJ52F56	KFDJ52F80

3D037081

Optional Accessories (For Controls) Refer to P.640



(V0678)

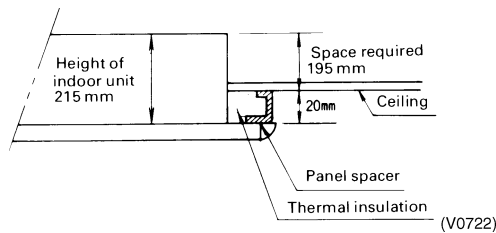
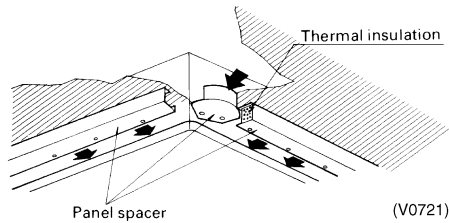
Panel Spacer

If the space above the ceiling is not available for more than 220mm, use the panel spacer, which enables to install the unit in 200mm space.

Specifications

Item	Model	KPBJ52F56W	KPBJ52F80W
Color	White		
Dimensions (mm)	Height	20	
	Width	1,240	1,440
	Depth	800	
Materials	Outer Frame : Resin Molding Thermal Insulation : Foam Polyethylene		
Contents	Panel Spacer(1)(2)(3) Thermal Insulation (1)(2), Screws		
Applicable Decoration Panel	BYK45FJW1	BYK71FJW1	
Applicable Model	For Indoor Unit 25-40Class	For Indoor Unit 63Class	

Installation



Precaution at use

1. Be sure to stick insulators on the panel spacer after the panel spacer is assembled.
2. Secure 20 cm height in the space above ceiling.

Contents of Kit

Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

Name	Panel spacer (1)	Panel spacer (2)	Panel spacer (3)	Thermal insulation (1)
Quantity	2 pieces	2 pieces	4 pieces	2 pieces
Shape				
Name	Thermal insulation (2)	Screws	Installation manual	
Quantity	2 pieces	18 pieces	1 piece	
Shape		 M4×12		

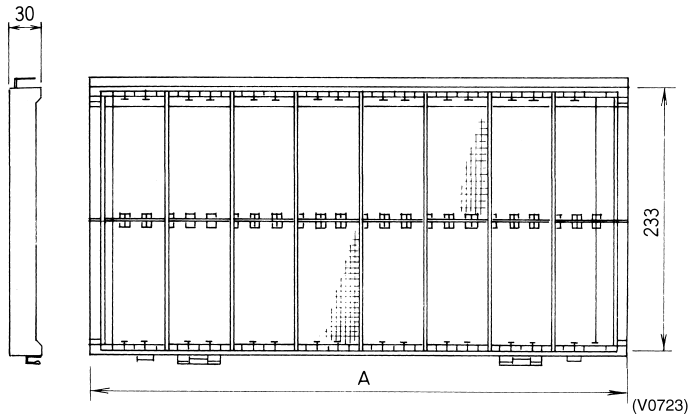
(V0920)

Long Life Replacement Filter

Specifications

Items	Model	KAFJ521F56	KAFJ521F80
Life Time, Average Efficiency		2500 hours (dust density 0.15 mg/m ³), 45% (Gravity method)	
Filter		Mildew Proof Resin Net	Mildew Proof Resin Net
Required Quantity (for One Unit)		Two pieces	Two pieces
Applicable Models		25-32-40Class	63Class

Dimensions



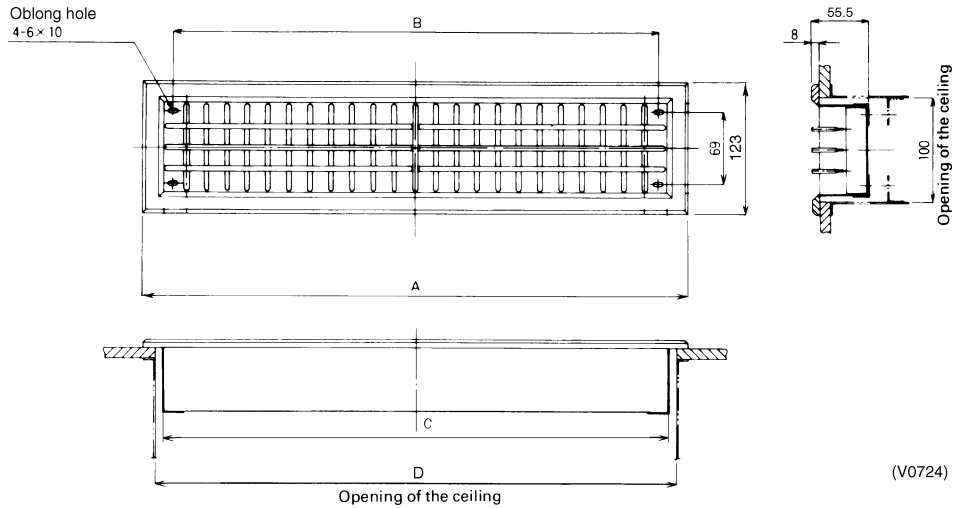
Model	A
KAFJ521F56	403
KAFJ521F80	503

Discharge Grille

This optional kit is used when the unit is installed with front air discharge. The direction of air can be adjusted flexibly. This discharge grille should be installed with the following flexible duct.

Specifications

Items	Model	K-HV7AW	K-HV9AW
Air Flow Rate (m ³ /min)		9~13	12~19
Type		HV type (Horizontal blade and vertical blade movable)	
External Color		White	White
Materials		Steel plate (A cryptomeria only at the tip of the outlet + nylon flocking)	
Structural Parts		Discharge grille, Screws, Blade control tool	
Applicable Flexible Duct		KFDJ52F56	KFDJ52F80
Applicable Models		25-32-40Class	63Class



Model	Applicable Model	A	B	C	D
K-HV7AW	For 25~40Class	523	466	488	500
K-HV9AW	For 63Class	723	666	688	700

Flexible Duct (with Shutter)

The built-in shutter's Open/Shut action makes it possible to regulate the air flow rate. Besides, the flexible duct helps the connection to the main unit to give more flexibility.

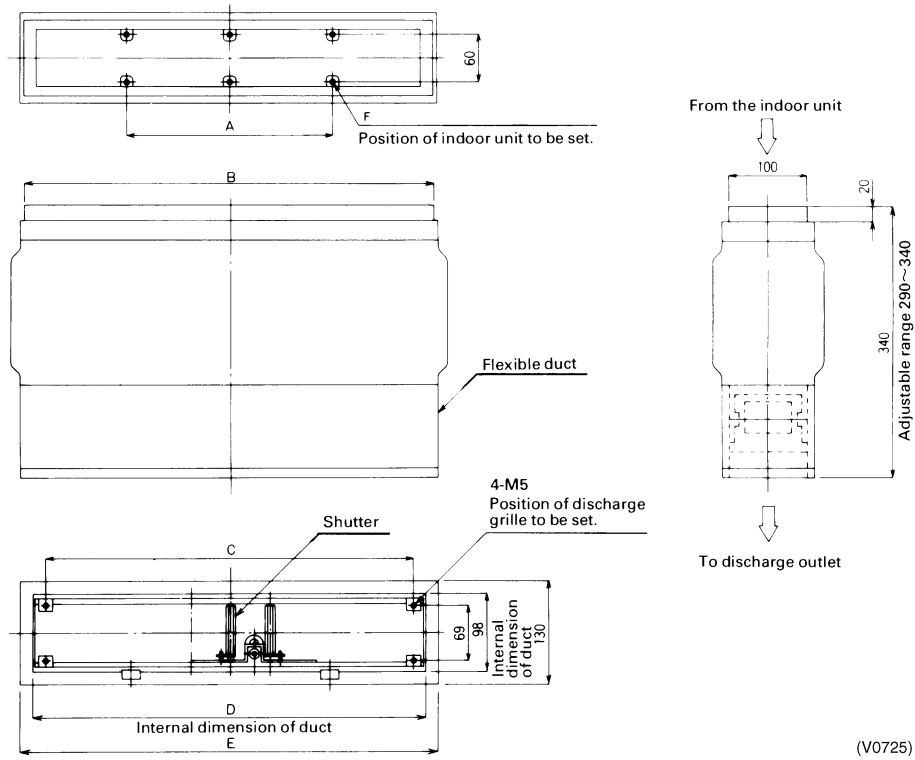
Specifications

Items	Model	KFDJ52F56	KFDJ52F80
External Dimension (mm)	H	132	
	W	532	732
	D	Max. 353	
Materials	Outer frame : Steel plate Flexible Duct : Glass wool, Vinyl chloride sheet		
Contents	Flexible duct, Shutter, Duct's set plate, Insulator, Outlet seal pad, Set screw, Shutter Open/shut tool, Blade adjusting tool		
Applicable Models	25-32-40Class		63Class

Precaution at use

Be sure to seal out the opening of the drain pan with drain outlet seal materials after the front panel of the indoor unit is removed away.

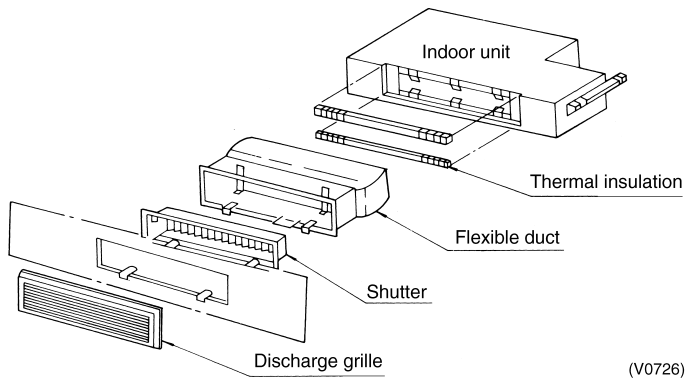
Dimension



(V0725)

Model	Applicable Model	A	B	C	D	E	F
KFDJ52F56	For Indoor Unit 25~40Class	260	520	466	498	530	4-φ Hole
KFDJ52F80	For Indoor Unit 63Class	460	720	666	698	730	6-φ7 Hole

Installation



(V0726)

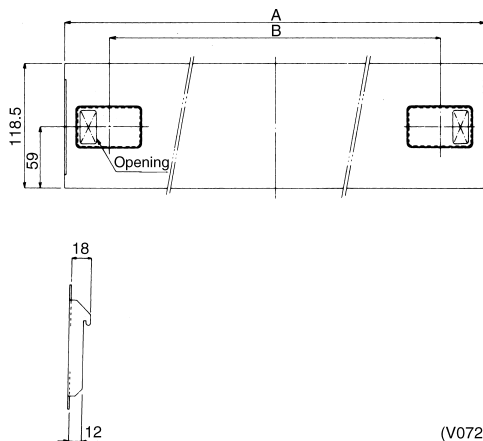
Air Discharge Blind Panel

This is the parts which closes the lower discharge outlet when the unit is used as a front discharge style.

Specifications

Items	Model	KDBJ52F56W	KDBJ52F80W
External color		White	White
External Dimension (mm)	T	18	
	W	1,126	1,326
	D	119	
Materials		Steel plate	
Contents		Outlet decoration panel assembly, Decoration panel suspension plate, Name Plate, Caution plate set board	
Applied Decoration Panel		BYK45FJW1	BYK71FJW1
Applicable Models		25-32-40Class	63Class

External dimension

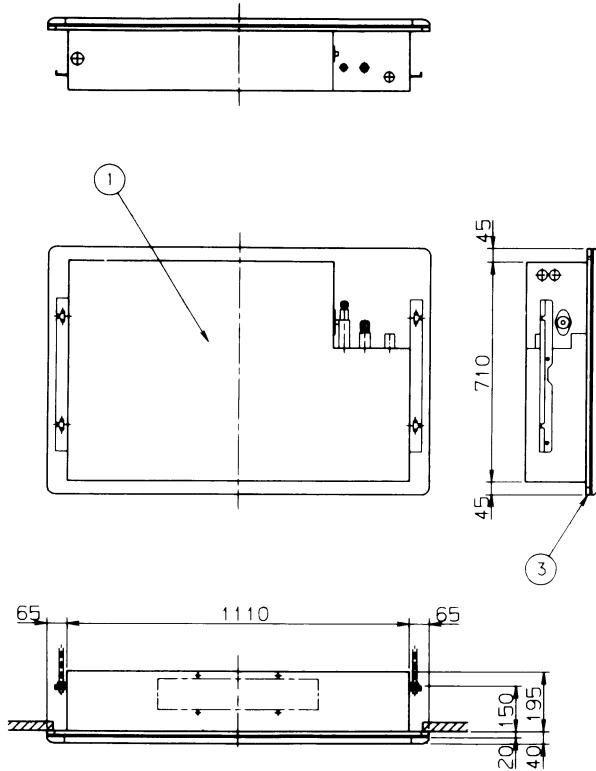


Model	A	B
KDBJ52F56	1125.5	1040
KDBJ52F80	1325.5	1240

Dimensions with the Optional Accessories

Panel Spacer

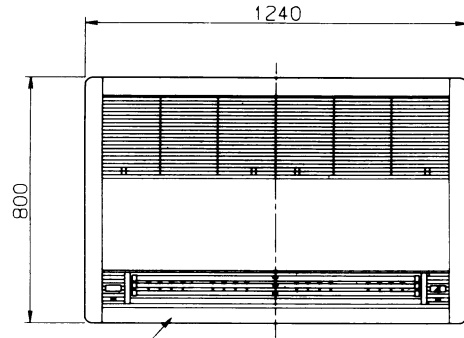
■ FXYKP25~40K



Optional panel spacer

KPBJ52F56W White 10Y 9/0.5

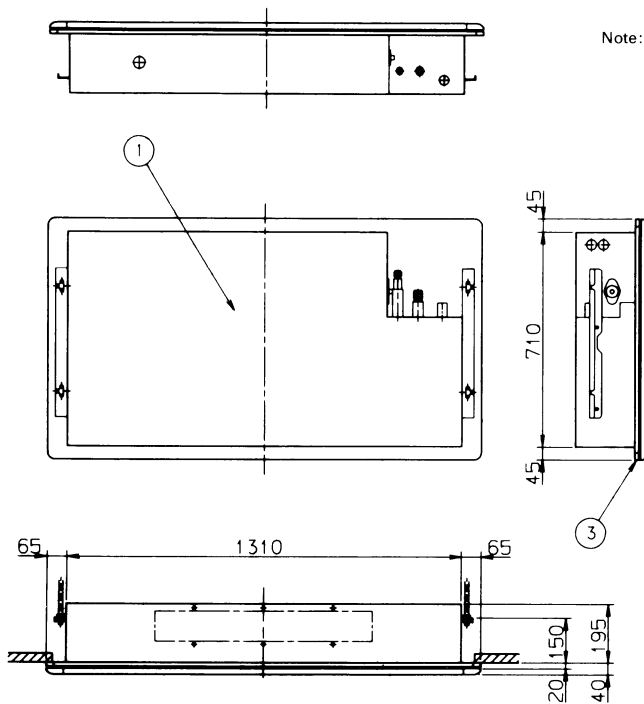
Note: When other optional kit is installed, refer to the installation drawing of its optional kit.



Number	Name	Description
3	Panel spacer	
2	Decoration panel	
1	Indoor unit	

JC : DU825-219

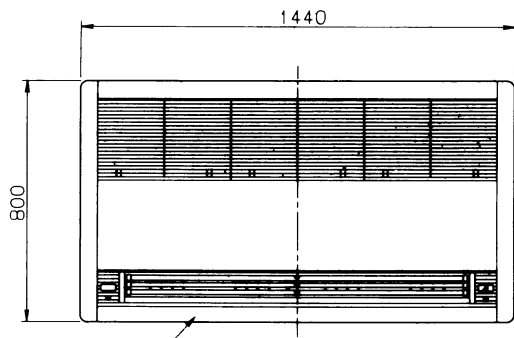
■ FXYKP63K



Optional panel spacer

KPBJ52F80W White 10Y 9/0.5

Note: When other optional kit is installed, refer to the installation drawing of its optional kit.



Number	Name	Description
3	Panel spacer	
2	Decoration panel	
1	Indoor unit	

JC : DU827-242