# FXH-L Ceiling Suspended Type

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# 1. Features

FXH32L/FXH63L/FXH100L

# Slim body with quieter and wider air flow

NOTION OF STREET

 Adoption of newly designed SILENT STREAM FAN

Uses the new silent stream fan and many more silent technologies.



)	Low operating sound (dB(A))							
	Class	32	63	100				
	Operating sound (H/L)	36/31	39/34	45/37				

### Installation is easy

• Drain-up kit (optional) can be easily incorporated



•Wide air discharge openings produce a spreading 100° air flow





### Maintenance is easy

• New Non-dew Frap with no implanted

Bristle-free Frap minimizes contamination and makes cleaning simpler.



- Easy to clean flat design
- Maintenance is easier because everything can be performed from below the unit
- A long-life filter (maintenance free up to one year) is equipped as standard

# 2. Specifications

### **Ceiling Suspended Type**

Model			FXH32LVE	FXH63LVE	FXH100LVE		
		kcal/h	3,150	6,300	10,000		
★1 Cooling Ca	apacity (19.5°CWB)	Btu/h	12,500	25,000	39,700		
		kW	3.7	7.3	11.6		
★2 Cooling Ca	apacity (19.0°CWB)	kW	3.6	7.1	11.2		
		kcal/h	3,400	6,900	10,800		
★3 Heating Capacity		Btu/h	13,600	27,300	42,700		
		kW	4.0	8.0	12.5		
Casing Color			White (10Y9/0.5)	White (10Y9/0.5)	White (10Y9/0.5)		
Dimensions: (I	H×W×D)	mm	195×960×680	195×1,160×680	195×1,400×680		
Coil (Cross	Rows×Stages×Fin Pitch	mm	2x12x1.75	3x12x1.75	3x12x1.75		
Fin Coil)	Face Area	m²	0.182	0.233	0.293		
	Model		3D12K1AA1	4D12K1AA1	3D12K2AA1		
	Туре		Sirocco Fan	Sirocco Fan	Sirocco Fan		
Fan	Motor Output × Number of Units	W	62×1	62×1	130×1		
	Air Flow Pote (H/L)	m³/min	12/10	17.5/14	25/19.5		
	All FIOW Rale (H/L)	cfm	424/353	618/494	883/688		
	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		
Sound Absorb	ing Thermal Insulation Mat	erial	Glass Wool	Glass Wool	Glass Wool		
Air Filter			Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)		
	Liquid Pipes	mm	φ6.4 (Flare Connection)	φ9.5 (Flare Connection)	φ9.5 (Flare Connection)		
Piping	Gas Pipes	mm	§12.7 (Flare Connection)	§15.9 (Flare Connection)	§19.1 (Flare Connection)		
Connections	Drain Pipe	mm	VP20 (External Dia. 26 Internal Dia. 20)	VP20 (External Dia. 26 Internal Dia. 20)	VP20 (External Dia. 26 Internal Dia. 20)		
Machine Weig	ht	kg	24	28	33		
★5 Sound Lev	/el (H/L)	dBA	36/31	39/34	45/37		
Safety Devices		Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor			
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve		
Connectable outdoor unit			R22 ; K-Series, R407C ; K or L Series	R22 ; K-Series, R407C ; K or L Series	R22 ; K-Series, R407C ; K or L Series		
Standard Accessories		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers, Flare Nut. Operation Manual, Installation Manual, Paper Pattern for Installation Manual, Paper Pattern for Installation Manual, Camp Metal, Insulation for Fitting, Clamps, Washers.		Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers.			
Drawing No.			3D035297				

#### 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 under JISB8616 conditions. During actual operation, these values are normally somewhat

higher as a result of ambient conditions.

6 Refer to page 260 for Fan Motor Input.

Conversion Formulae kcal/h=kWx860 Btu/h=kWx3414 cfm=m³/minx35.3

# 3. Dimensions

FXH32LVE



3D027536B





# 4. Piping Diagrams



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

Refrigerant pipe connection port diameters

		(mm)
Model	Gas	Liquid
FXH32L	φ12.7	φ <b>6.</b> 4
FXH63L	φ <b>15</b> .9	40 F
FXH100L	φ19.1	ψ9.5

4D034245

7

# 5. Wiring Diagrams

### FXYHP 32K / 63K / 100KVE



3D034052

Cooling capacity

# 6. Capacity Tables

# 6.1 Cooling Capacity

### FXH – L

								Indoor a	air temp.						
Unit	Outdoor	14.0°	CWB	16.0°	CWB	18.0°	CWB	19.0°	CWB	20.0°	CWB	22.0°	CWB	24.0°	CWB
Size	°CDB	20°0	CDB	23°0	CDB	26°0	CDB	27°(	CDB	28°0	CDB	30°0	CDB	32°0	CDB
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	тс	SHC	TC	SHC
	10.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	12.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	14.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	16.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	18.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	20.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	21.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
32	23.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
	25.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.6	3.0
	27.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.6	3.0
	29.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.2	3.0	4.5	3.0
	31.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.2	2.9	4.4	2.9
	33.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.1	2.9	4.3	2.9
	35.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.0	2.9	4.2	2.9
	37.0	2.5	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.7	2.9	3.9	2.9	4.2	2.8
	39.0	2.5	2.3	2.9	2.6	3.4	2.8	3.5	2.9	3.6	2.9	3.9	2.8	4.1	2.8
	10.0	4.9	4.2	5.8	4.6	6.7 6.7	5.1	7.1	5.2	7.5	5.3	8.4	5.5	9.3	5.5
	12.0	4.9	4.2	5.8 E 0	4.0	0.7 6 7	5.I 5.1	7.1	5.2	7.5	5.3 5.3	0.4 0.4	5.5 E E	9.3	5.5 E E
	14.0	4.9	4.2	0.0 E 0	4.0	0.7	5.1	7.1	5.2	7.5	5.5	0.4	5.5	9.3	5.5 E E
	10.0	4.9	4.2	5.0	4.0	6.7	5.1	7.1	5.2	7.5	5.3	0.4	5.5	9.3	5.5
	20.0	4.5	4.2	5.8	4.0	6.7	5.1	7.1	5.2	7.5	53	8.4	5.5	0.3	5.5
	20.0	4.5	4.2	5.8	4.0	6.7	5.1	7.1	5.2	7.5	53	8.4	5.5	0.3	5.5
	23.0	4.0	4.2	5.8	4.0	6.7	5.1	7.1	5.2	7.5	5.3	84	5.5	9.3	5.5
63	25.0	4 9	4.2	5.8	4.6	67	5.1	7.1	5.2	7.5	5.3	84	5.5	9.1	5.5
	27.0	4.9	4.2	5.8	4.6	67	5.1	7.1	5.2	7.5	5.3	8.4	5.5	9.0	5.4
	29.0	4.9	4.2	5.8	4.6	67	51	7 1	5.2	7.5	5.3	8.3	5.4	8.8	5.4
	31.0	4.9	4.2	5.8	4.6	6.7	5.1	7.1	5.2	7.5	5.3	8.2	5.3	8.7	5.3
	33.0	4.9	4.2	5.8	4.6	6.7	5.1	7.1	5.2	7.5	5.3	8.0	5.3	8.5	5.2
	35.0	4.9	4.2	5.8	4.6	6.7	5.1	7.1	5.2	7.4	5.2	7.9	5.2	8.4	5.2
	37.0	4.9	4.2	5.8	4.6	6.7	5.1	7.1	5.2	7.3	5.2	7.8	5.1	8.2	5.1
	39.0	4.9	4.2	5.8	4.6	6.7	5.1	6.9	5.1	7.2	5.1	7.6	5.1	8.1	5.0
	10.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
	12.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
	14.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
	16.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
	18.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
	20.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
	21.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.7	8.6
100	23.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.6	8.6
100	25.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.4	8.5
	27.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.3	8.4	14.2	8.4
	29.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	13.2	8.3	13.9	8.2
	31.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	12.9	8.2	13.7	8.1
	33.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.9	8.1	12.7	8.1	13.4	8.1
	35.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	8.0	11.7	8.0	12.5	8.0	13.2	7.9
	37.0	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.5	7.9	12.2	7.9	13.0	7.8
	39.0	7.7	6.3	9.1	7.0	10.5	7.8	11.0	7.8	11.3	7.8	12.0	7.8	12.7	7.7

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**

## FXH-L

							Heating C	Capacity
11. 2	Outo	door		Ir	ndoor air t	emp.°CDI	3	
Unit Size	air te	emp.	16.0	18.0	20.0	21.0	22.0	24.0
0.20	°CDB	°CWB	kW	kW	kW	kW	kW	kW
	-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
22	-3.0	-3.7	3.6	3.5	3.5	3.5	3.5	3.4
32	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
	-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
63	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
	-13.7	-15.0	8.7	8.6	8.5	8.4	8.3	8.2
	-11.8	-13.0	9.1	9.0	8.9	8.8	8.8	8.7
	-9.8	-11.0	9.6	9.4	9.3	9.2	9.2	9.1
	-9.5	-10.0	9.8	9.7	9.6	9.5	9.4	9.3
	-8.5	-9.1	10.0	9.9	9.8	9.7	9.6	9.5
	-7.0	-7.6	10.4	10.2	10.1	10.0	10.0	9.8
	-5.0	-5.6	10.8	10.7	10.5	10.4	10.4	10.2
	-3.0	-3.7	11.2	11.1	11.0	10.9	10.8	10.6
100	0.0	-0.7	11.9	11 7	11.6	11.5	11.4	10.6
	3.0	2.2	12.6	12.4	12.2	12.0	11.5	10.6
	5.0	4 1	13.0	12.8	12.5	12.0	11.5	10.6
	7.0	60	13.4	13.3	12.5	12.0	11.5	10.6
	9.0	79	13.4	13.5	12.5	12.0	11.5	10.6
	11.0	7.3 9.8	14 3	13.5	12.5	12.0	11.5	10.6
	13.0	11.8	14.0	13.5	12.5	12.0	11.5	10.6
	15.0	13.7	14.4	13.5	12.5	12.0	11.5	10.6

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)

FXH100L

(Heating-Air Velocity Distribution) Center Air Flow



### FXH100L





(V0467)

# 8. Electric Characteristics

	Un	its			Power	supply	IFN	1	Inpu	ıt(W)
Model	Ηz	Volts	Voltag	e range	MCA	MFA	ΚW	FLA	Cooling	Heating
FXH32LVE					0.8	15	0.062	0.6	111	111
FXH63LVE	50	220-240	MAX. Min	264	0.8	15	0.062	0.6	115	115
FXH100LVE			IVI I II.	150	0.9	15	0.130	0.7	135	135
FXH32LVE					0.9	15	0.062	0.7	142	142
FXH63LVE	60	220	MAX.	242	0.9	15	0.062	0.7	145	145
FXH100LVE			₩ 1 II.	1 3 0	1.3	15	0.130	1.0	199	199

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%.
```

3. MCA/MFA

```
MCA = 1.25 X FLA
MFA ≤ 4 X FLA
(Next lower standard fuse rating. Min.15A)
4. Select wire size based on the MCA.
```

```
5. Instead of fuse, use Circuit Breaker.
```

4D035304

# 9. Sound Levels

### Overall



### **Octave Band Level**



### FXH32LVE



### FXH63LVE



### FXH100LVE



# 10.Installation

### Installation Example



# Service Space (Selecting Installation Site)

- (1) Select an installation site where the following conditions are fulfilled and that meets your customer's approval.
  - Where optimum air distribution can be ensured.
  - Where nothing blocks air passage.
  - Where condensate can be properly drained.
  - If supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.
  - Where the false ceiling is not noticeably on an incline.
  - Where sufficient clearance for maintenance and service can be ensured. (Refer to Fig. 1)
    If sufficient clearance could be ensured at\*, leave a space of 200 mm or more between the unit and it's
    surroundings easier maintenance and service.
  - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual for the outdoor unit.)
  - Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)



- (2) Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit. (Installation pitch is marked on the paper pattern for installation. Refer to it to check for points requiring reinforcing.)
- (3) This indoor unit may be installed on ceilings up to 3.5 m in height. However, if the ceiling is higher than 2.7m, the remote control will have to be set locally.

3PN01417-5K-4

### **Bolt Pitch**

### **Preparations Before Installation**

(1) Relative positions of indoor unit, suspension bolt, piping hole, drain piping hole, and electric wire hole position. (Refer to Fig. 2)



#### Fig. 2

					-		
Model	А	В	С	D	Е	F	G
FXH32L	960	920	390	375	310	400	375
FXH63L	1160	1120	490	475	410	500	475
FXH100L	1400	1360	610	595	530	620	595

### (2) Make the suspension bolt hole, piping hole, drain piping hole.

- Refer to the paper pattern for installation for hole positions.
- Fix the positions for suspension bolt, piping hole, drain piping hole, and electric wire hole, and make the openings.

### **Drain Piping Work**

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) Rig drain piping

- For drain work, rig the pipes so that they drain reliably.
- The drain pipe outlet direction can be chosen from the right rear, right, left rear, and left. Refer to "REFRIGERANT PIPING WORK" for right rear and right direction, and refer to Fig. 20 for left rear and left direction.



#### Fig. 20

• For left drain pipe outlet, remove the rubber plug and the insulation on the drain pipe connecting opening on the left side of the unit and change the position to the right side.

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- Insert the rubber stopper securely, all the way to the base, in order to prevent water leakage.
- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe. (Vinyl tube; pipe size: 20 mm; outer dimension: 26 mm)
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming. (Refer to Fig. 21)
- Use the attached drain hose (1) and clamp (2). Insert the drain hose into the drain socket, up to the gray tape.(Refer to Fig. 22) Tighten the clamp until the screw head is less than 4 mm from the hose. (Refer to Fig. 23) (Be careful of the installation direction. Install so that the clamp metal does not contact the intake grill.)
  Wrap the attached sealing pad (8) over the clamp and drain hose to insulate. (Refer to Fig. 23)
- No folding of drain hose inside the indoor unit. (Refer to Fig. 24)

(If there is slack in the drain hose, it may cause damage to the intake grill.)



Fig. 23

### (2) Confirm that smooth drainage is achieved after the piping work.

• Add 600 cc of water in the drain pan from the air outlet for confirming drainage. (Refer to Fig. 25)





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.

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# 11. Accessories

### **Standard Accessories**

FXH32L~100L

Name	(1) Drain hose	(2) Clamp metal	(3) Washer for hanging bracket	(4) Clamp	(5) Paper pat- tern for instal- lation
Quan- tity	1 pc.	1 pc.	8 pcs.	6 pcs.	1 pc.
Shape			0	<u>A</u>	0 0

Name	Insulation for fitting	Sealing pad	
Quan- tity	1 each	1 each	
	(6)For gas pipe	(8) Large	<ul><li>(Other)</li><li>Operation manual</li></ul>
0			<ul> <li>Installation manual</li> </ul>
Shape	(7)For liquid pipe	(9) Small	

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### **Optional Accessories (For Unit)**

No.	Type Item	FXH32L	FXH63L	FXH100L
1	Drain pump kit	KDU50B50VE	KDU50B71VE	KDU50B125VE
2	Replacement long-life filter (Resin net)	KAFJ501D56	KAFJ501D80	KAFJ501D112
3	L-type piping kit (for upward direction)	KHFJ5F50	KHFJ5F80	KHFJ5F160
				4D029907A

### **Optional Accessories (For Controls) Refer to P.640**



### Drain Pump Kit

### Specifications

Items	Model	KDU50B50VE KDU50B71VE KDU50B1				
Drain-up Lift (m	nm)	600				
Drain Con. Dia	meter	VP20 (Ex. dia.				
Pump	Power Supply	Single phase 220-240V/220V 50/60Hz (from Indoor Unit PC Board)				
	Power Consumption (W)		13.5/12 (50/60Hz)			
Applicable Mod	dels	32 class	63 class	100 class		

#### Precaution at use

- 1. Don't turn off the power within 5 minutes after cooling operation stops.
- 2. The liquid crystal display blinks to inform us that safety device actuated.
- 3. When cooling operation's season is over, extract drain water.

#### Installation guide of the drain pump kit

### <Changes in drain pump kit>

- Exit drain pipe has been changed from VP25 to VP20 (to meet the drain diameter of main frame).
- Attached drain pipe (450 mm chloride vinyl straight pipe bellow, elbow) -> only bellow hose for VP20
- All units of drain up height was unified to 600mm (From the bottom of the ceiling)



#### Wiring diagram



(V0761) (V0761)

#### L Shape Connection Pipe Kit

#### Application purpose

This kit must be bent inside the unit as shown below, when the refrigerant piping is carried out in a ceiling space. This L shape kit is an optional accessory which has been developed for improving the work of the processing on site.

#### Installation

