

FXA-L / FXYAP-K

Wall Mounted Type

| | |
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1. Features

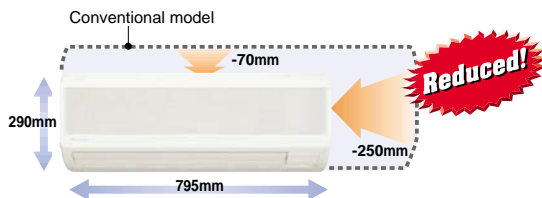
20~32 class

FXA20L/FXA25L/FXA32L



Made more compact, stylish, and quieter

- Compact and stylish design that does not detract from the decor of the room.



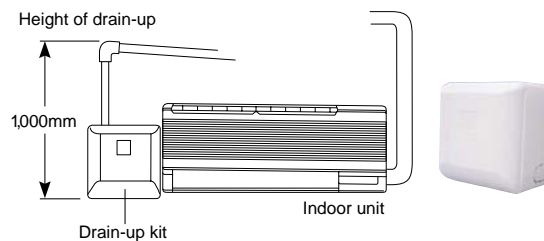
- Even quieter than before.

| Model Name | dBA [at Low] | | |
|------------|--------------|---------------------|-----------|
| | New | Conventional Models | Reduction |
| FXA20LVE | 29 | 32 | ▲ 3dB |
| FXA25LVE | 29 | 32 | ▲ 3dB |
| FXA32LVE | 29 | 33 | ▲ 4dB |

- Reduced size (by 30% in volume, 40% in installation area) makes installation possible in a very limited space.
- Reduced weight (by 10 kg in 32 class) greatly facilitates installation.
- Mildew-proof polystyrene used in the casing simplifies cleaning and maintenance.
- Auto-swing ensures efficiency of air distribution. The louver closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarts. (Initial setting; 10°C for cooling and 70°C for heating)



- Drain-pump kit is available as optional accessory, which lifts the drain 1,000mm from the bottom of the unit.



40~63 class

Adapting “Auto-Swing” mechanism, the comfort and the quietness have been improved. The drain pump kit is now available as optional accessories, which increase the flexibility in system designing.

Wall mounted type units, which offers easy installation for replacement and addition to an existing building, has been upgraded. The new model realized low operational sound by adapting “Auto Swing” and newly developed cross-flow fan, the same as SkyAir series. Also the drain pump kit is now available as optional accessories, which increase the flexibility in system designing.



<Features>

Improvements on comfort■ **Designed for quietness**

- Employs newly-developed “cross flow fan”
- Optimized air passage and the shape of air discharge
- Reduction of operating sound level: 40 type 42 dB → 40 dB

■ **Employs function for more air flow volume**

- About 10 percent increase of air flow (can be arranged by remote controller)

Facilitates installation■ **Reduced the space required for set up**

- Width of 40 type: 1,300 mm → 1,150 mm

■ **Lighter weight**

- Weight of 40 type 23 kg → 21 kg

Facilitates wiring work (No need to remove the front grille)**Facilitates maintenance**

- **Structural alteration brought facilitating mounting and dismounting parts**
- **Air discharge outlet is now changeable, when it gets dirty.**

Wide variety of optional accessory■ **Drain pump kit**

(To be installed on the left of main body in line. Head: 1,000 mm)

<Details>

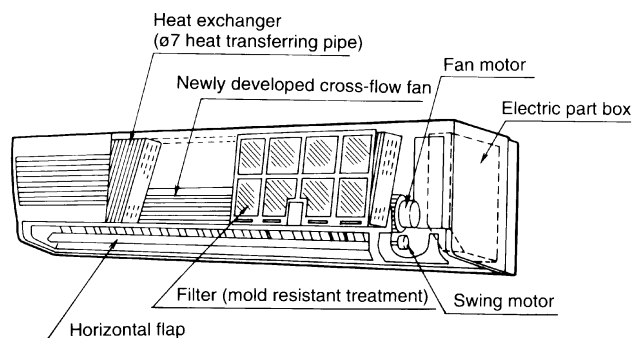
(1) Lowest operating noise level in the industry

Adopting newly developed cross flow fan, and reviewing the air passage and the shape of air discharge outlet minimized the pressure drop in the unit, which resulted top class lowest operating sound in the industry.

■ **Operating sound**

(Hi/Low: dB)

| Type | Sound Level |
|------|-------------|
| 40 | 41/34 |
| 50 | 43/38 |
| 63 | 45/41 |

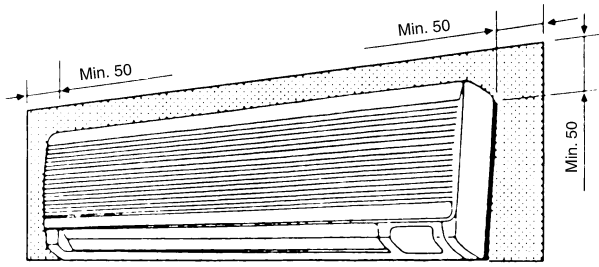


*Uses newly developed cross-flow fan

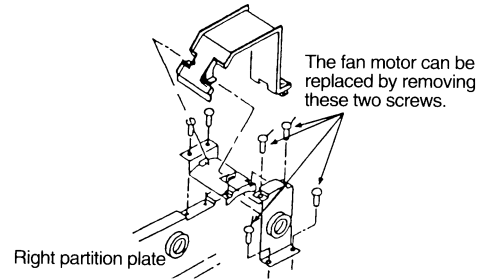
*Optimized air passage and air discharge section shape ⇒ **Quieter operation points** (V0059)

(2) Improvements on installation and maintenance

- Improvement in fan motor mounting direction curtailed right side space required for servicing from 200 mm



(V0060)

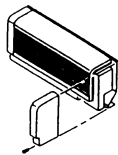


(V0061)

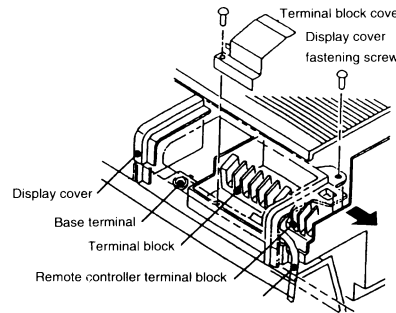
- Wiring can be connected without removing the front grille

Wire connection procedure

1. Remove the right side panel.
2. Remove the screws that fasten the display cover. Remove the display cover by sliding horizontally.



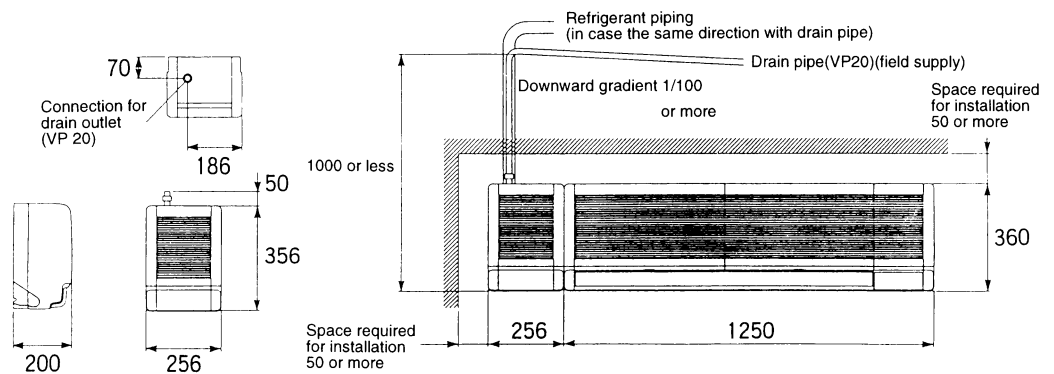
(V0062)



(V0063)

(3) Drain pump kit (optional accessory) increase the flexibility to install the unit.

- Realized 1000 mm head for drain pump kit
- Dimensional drawing for installation of drain pump kit.



(V0064)

2. Specifications

Wall Mounted Type

| Model | | | FXA20LVE | FXA25LVE | FXA32LVE |
|---|--------------------------------|---------------------|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | kcal/h | | 2,000 | 2,500 | 3,150 |
| | Btu/h | | 7,900 | 9,900 | 12,500 |
| | kW | | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | kW | | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | kcal/h | | 2,200 | 2,800 | 3,400 |
| | Btu/h | | 8,500 | 10,900 | 13,600 |
| | kW | | 2.5 | 3.2 | 4.0 |
| Casing Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (HxWxD) | | | mm 290x795x230 | 290x795x230 | 290x795x230 |
| Coil (Cross Fin Coil) | RowsxStagesxFin Pitch | mm | 2x14x1.4 | 2x14x1.4 | 2x14x1.4 |
| | Face Area | m ² | 0.161 | 0.161 | 0.161 |
| Fan | Model | | — | — | — |
| | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output x Number of Units | W | 40x1 | 40x1 | 40x1 |
| | Air Flow Rate (H/L) | m ³ /min | 7.5/4.5 | 8/5 | 9/5.5 |
| | | cfm | 265/159 | 282/177 | 318/194 |
| 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 Absorbing Thermal Insulation Material | | | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene |
| Air Filter | | | Resin Net (Washable) | Resin Net (Washable) | Resin Net (Washable) |
| Piping Connections | Liquid Pipes | mm | φ6.4 (Flare Connection) | φ6.4 (Flare Connection) | φ6.4 (Flare Connection) |
| | Gas Pipes | mm | φ12.7 (Flare Connection) | φ12.7 (Flare Connection) | φ12.7 (Flare Connection) |
| | Drain Pipe | mm | VP13 (External Dia. 18 Internal Dia. 14) | VP13 (External Dia. 18 Internal Dia. 14) | VP13 (External Dia. 18 Internal Dia. 14) |
| Machine Weight | | | kg 11 | 11 | 11 |
| ★5 Sound Level (H/L) | | | dBA 35/29 | 36/29 | 37/29 |
| Safety Devices | | | Fuse | Fuse | Fuse |
| 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, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. |
| Drawing No. | | | 3D034904 | | |

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 283 for Fan Motor Input.

| Conversion Formulae |
|------------------------------|
| kcal/h=kWx860 |
| Btu/h=kWx3414 |
| cfm=m ³ /minx35.3 |

8

Wall Mounted Type

| Model | | | FXYP40KV1 | FXYP50KV1 | FXYP63KV1 | |
|---|--------------------------------|---------------------|--|--|--|---------|
| ★1 Cooling Capacity (19.5°CWB) | kcal/h | | 4,000 | 5,000 | 6,300 | |
| | Btu/h | | 15,900 | 19,900 | 25,000 | |
| | kW | | 4.7 | 5.8 | 7.3 | |
| ★2 Cooling Capacity (19.0°CWB) | kW | | 4.5 | 5.6 | 7.1 | |
| ★3 Heating Capacity | kcal/h | | 4,300 | 5,400 | 6,900 | |
| | Btu/h | | 17,000 | 21,500 | 27,300 | |
| | kW | | 5.0 | 6.3 | 8.0 | |
| Casing Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) | |
| Dimensions: (H×W×D) | | mm | 360×1,050×200 | 360×1,250×200 | 360×1,250×200 | |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×12×1.4 | 2×12×1.4 | 2×12×1.4 | |
| | Face Area | m ² | 0.169 | 0.219 | 0.219 | |
| Fan | Model | | QCL1165M | QCL1185M | QCL1185M | |
| | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan | |
| | Motor Output × Number of Units | W | 23×1 | 37×1 | 37×1 | |
| | Air Flow Rate (H/L) | m ³ /min | | 11/9 | 13/11 | 15/12 |
| | | cfm | | 388/318 | 459/388 | 530/424 |
| 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 Absorbing Thermal Insulation Material | | | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene | |
| Air Filter | | | Resin Net (Washable) | Resin Net (Washable) | Resin Net (Washable) | |
| Piping Connections | Liquid Pipes | mm | φ6.4 (Flare Connection) | φ9.5 (Flare Connection) | φ9.5 (Flare Connection) | |
| | Gas Pipes | mm | φ12.7 (Flare Connection) | φ15.9 (Flare Connection) | φ15.9 (Flare Connection) | |
| | 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 Weight | | kg | 21 | 24 | 24 | |
| ★5 Sound Level (H/L) | | dBA | 41/34 | 43/38 | 45/41 | |
| 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, Insulation for Fitting, Screws, Insulation Tape, Installation Panel, Fixed Parts, Clamps. | Operation Manual, Installation Manual, Paper Pattern for Installation, Insulation for Fitting, Screws, Insulation Tape, Installation Panel, Fixed Parts, Clamps. | Operation Manual, Installation Manual, Paper Pattern for Installation, Insulation for Fitting, Screws, Insulation Tape, Installation Panel, Fixed Parts, Clamps. | |
| Drawing No. | | | 3D014112A | | | |

Notes:

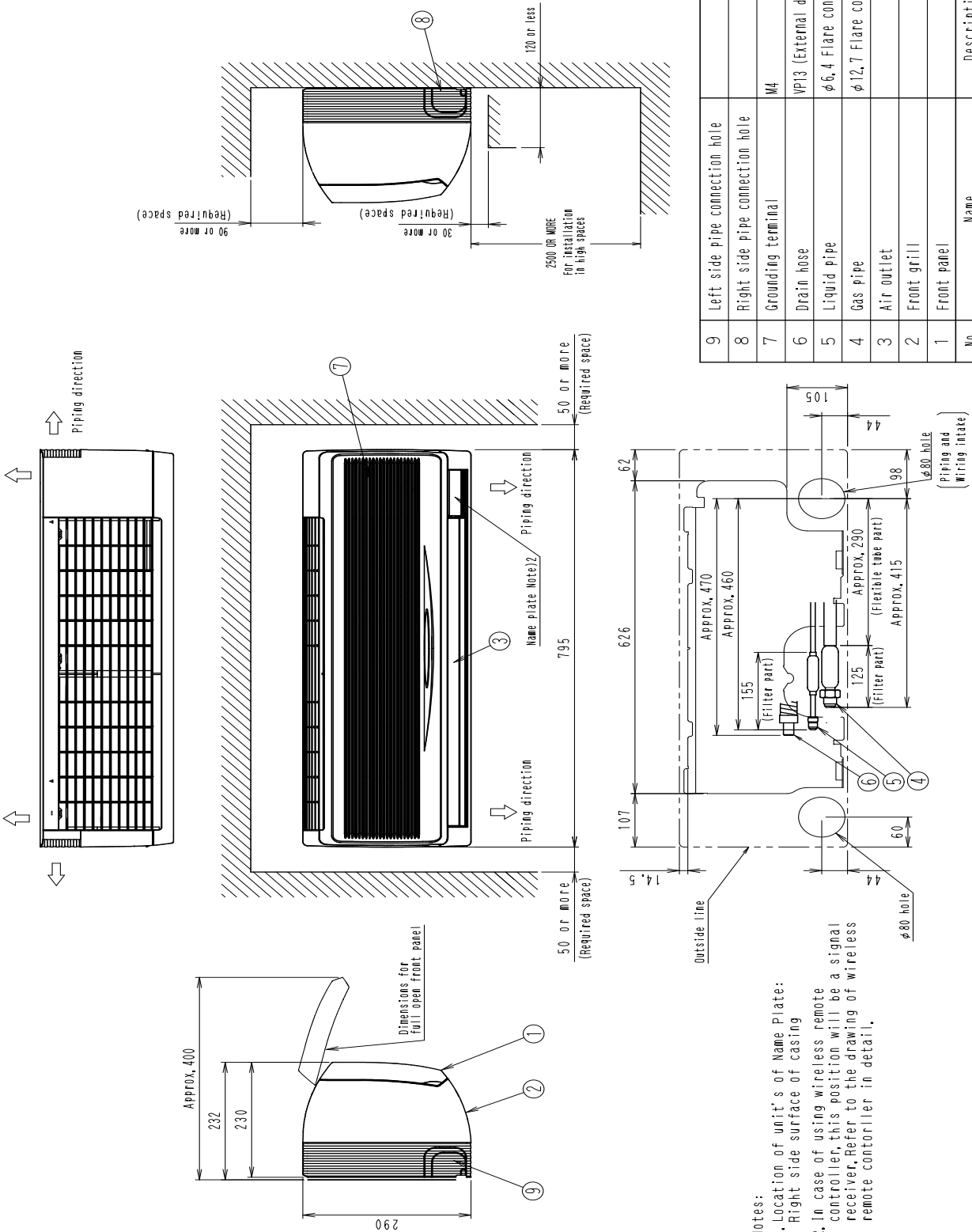
- ★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
- ★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent 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 257 for Fan Motor Input.

| |
|------------------------------|
| Conversion Formulae |
| kcal/h=kW×860 |
| Btu/h=kW×3414 |
| cfm=m ³ /min×35.3 |

3. Dimensions

FXA20L
 FXA25L
 FXA32L

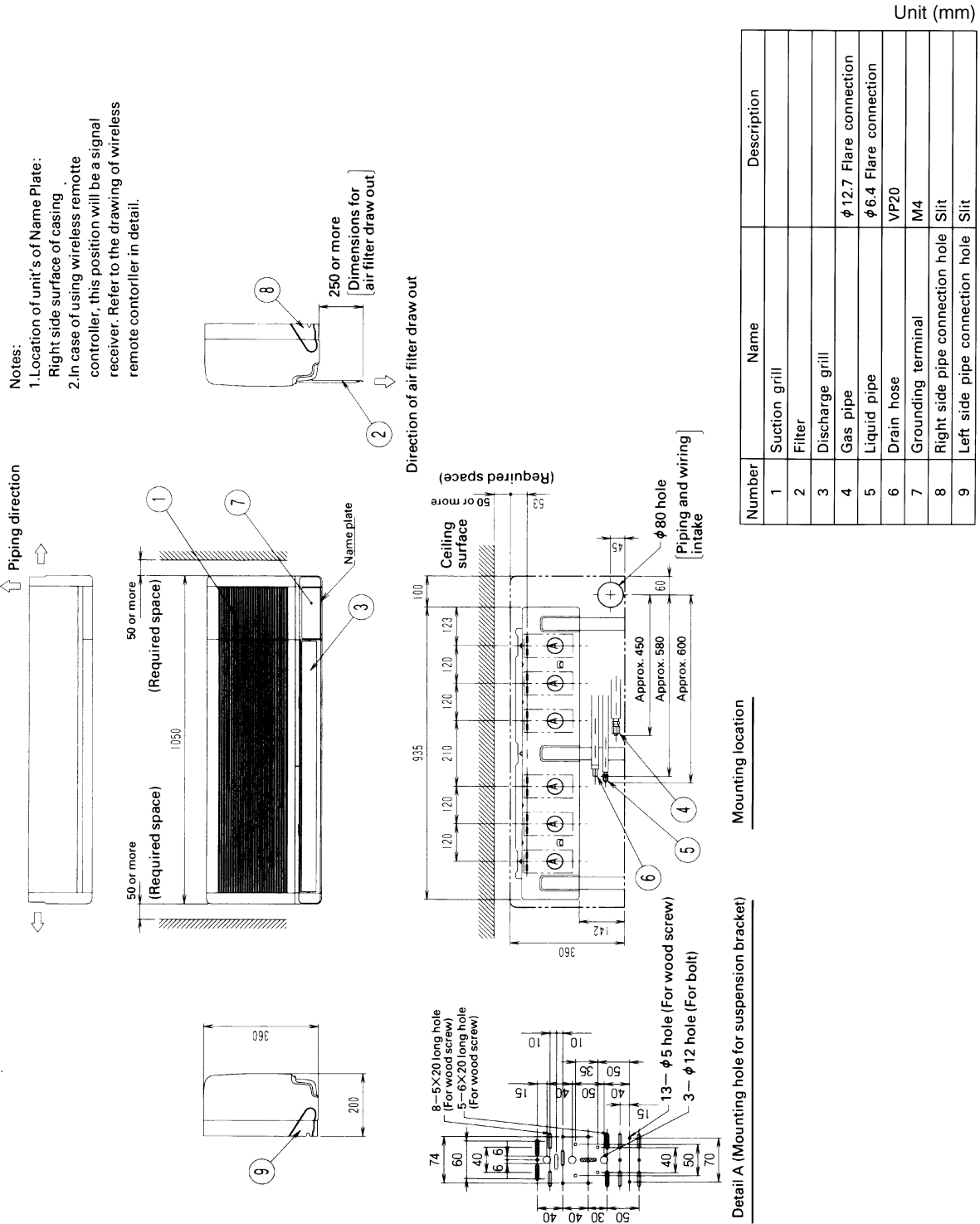
Unit (mm)



| No. | Name | Description |
|-----|---------------------------------|--------------------------------|
| 9 | Left side pipe connection hole | |
| 8 | Right side pipe connection hole | |
| 7 | Grounding terminal | M4 |
| 6 | Drain hose | VP13 (External dia. ϕ 18) |
| 5 | Liquid pipe | ϕ 6, 4 Flare connection |
| 4 | Gas pipe | ϕ 12, 7 Flare connection |
| 3 | Air outlet | |
| 2 | Front grill | |
| 1 | Front panel | |

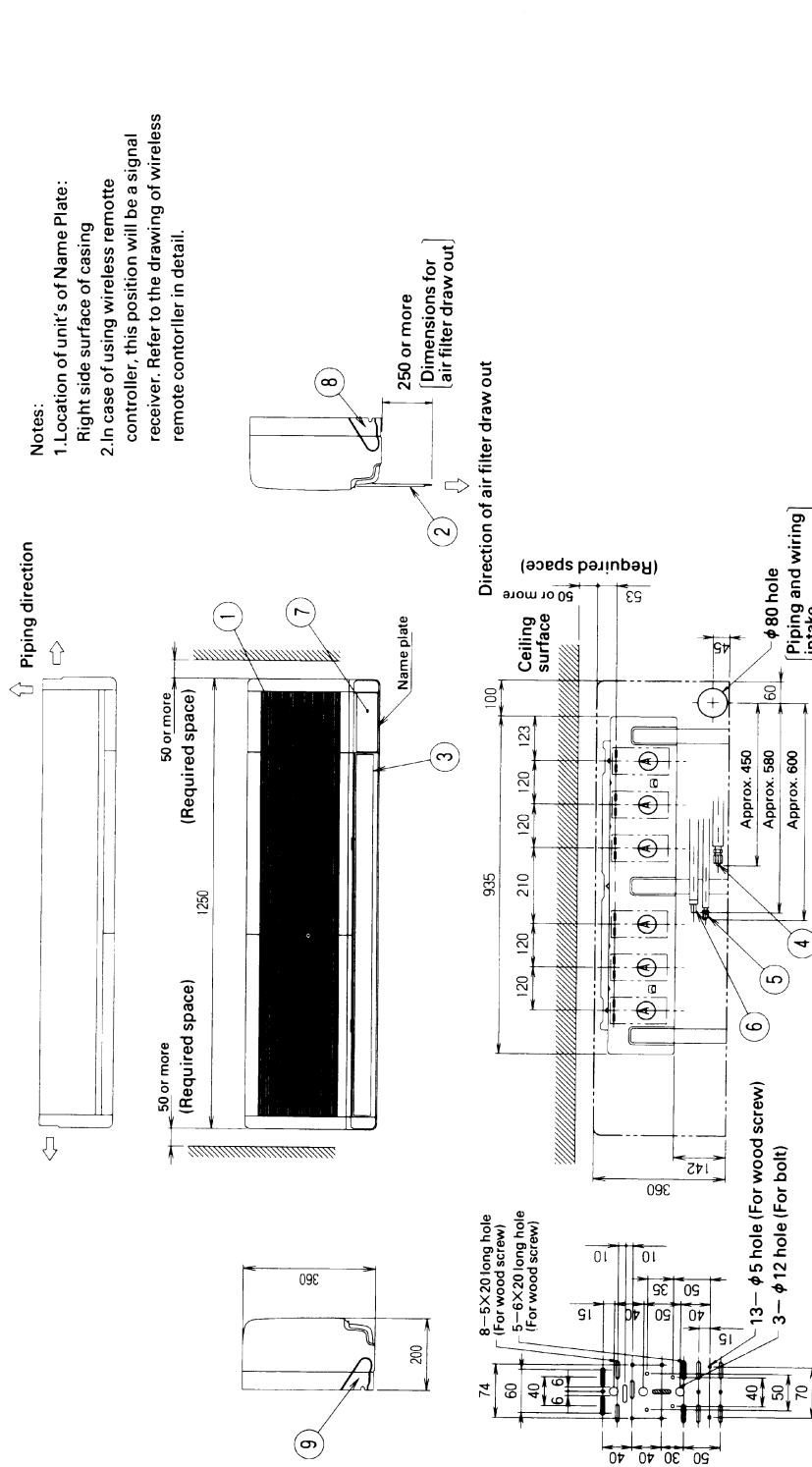
3D034903

FXYAP40K



JC : DU423-275H

FXYAP50K
FXYAP63K



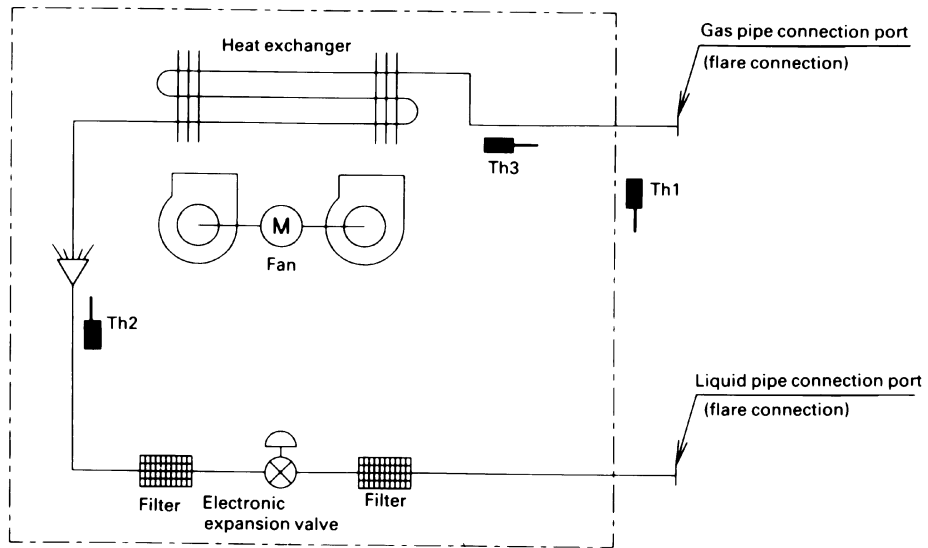
Mounting location

| Number | Name | Description |
|--------|---------------------------------|------------------------|
| 1 | Suction grill | |
| 2 | Filter | |
| 3 | Discharge grill | |
| 4 | Gas pipe | φ9.5 Flare connection |
| 5 | Liquid pipe | φ15.9 Flare connection |
| 6 | Drain hose | VP20 |
| 7 | Grounding terminal | M4 |
| 8 | Right side pipe connection hole | Slit |
| 9 | Left side pipe connection hole | Slit |

Unit (mm)

JC: DU426-2117F

4. Piping Diagrams



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

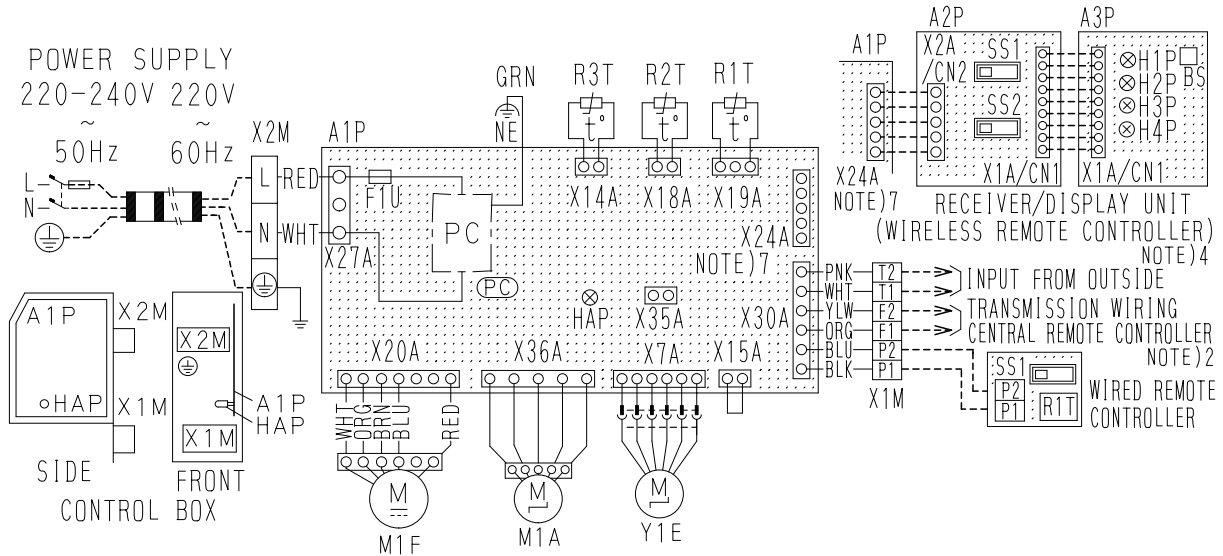
JC : DU220-602

■ Refrigerant pipe connection port diameters

| Model | (mm) | |
|-------------------------------|-------|--------|
| | Gas | Liquid |
| FXA20L / 25L/ 32L FXYAP40K | φ12.7 | φ6.4 |
| FXYAP50K/63K | φ15.9 | φ9.5 |

5. Wiring Diagrams

FXA 20L / 25L / 32LVE



| INDOOR UNIT | |
|--|--|
| A1P | PRINTED CIRCUIT BOARD |
| F1U | FUSE (⊕, 250V, 3A) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR GREEN) |
| M1A | MOTOR (SWING FLAP) |
| M1F | MOTOR (INDOOR FAN) |
| R1T | THERMISTOR (AIR) |
| R2T | THERMISTOR (COIL LIQUID PIPE) |
| R3T | THERMISTOR (COIL GAS PIPE) |
| X1M | TERMINAL STRIP (CONTROL) |
| X2M | TERMINAL STRIP (POWER) |
| Y1E | ELECTRONIC EXPANSION VALVE |
| PC | POWER CIRCUIT |
| RECEIVER/DISPLAY UNIT (ATTACHED TO WIRELESS REMOTE CONTROLLER) | |
| A2P | PRINTED CIRCUIT BOARD |
| A3P | PRINTED CIRCUIT BOARD |
| BS | PUSH BUTTON (ON/OFF) |
| H1P | LIGHT EMITTING DIODE (ON-RED) |
| H2P | LIGHT EMITTING DIODE (TIMER-GREEN) |
| H3P | LIGHT EMITTING DIODE (FILTER SIGN-RED) |
| H4P | LIGHT EMITTING DIODE (DEFROST-ORANGE) |
| SS1 | SELECTOR SWITCH (MAIN/SUB) WIRED REMOTE CONTROLLER |
| SS2 | SELECTOR SWITCH (WIRELESS ADDRESS SET) |

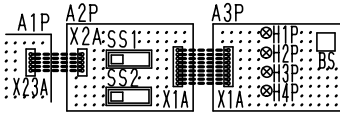
| | |
|------|-----------------------------------|
| X15A | CONNECTOR (FLOAT SWITCH) |
| X35A | CONNECTOR (GROUP CONTROL ADAPTOR) |

NOTES) (INDOOR UNIT)

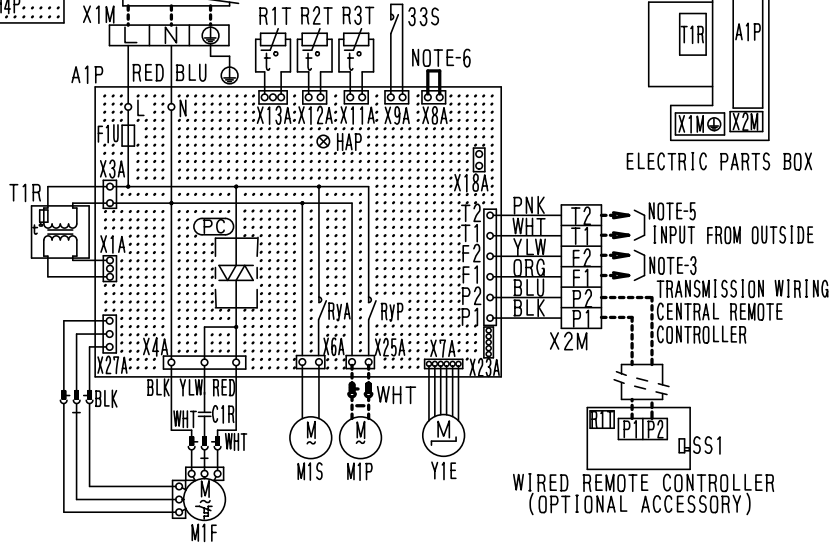
- : TERMINAL : CONNECTOR
 --- : FIELD WIRING : CONNECTOR
- IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
- SYMBOLS SHOWS AS FOLLOWS: RED:RED WHT:WHITE GRN:GREEN PNK:PINK YLW:YELLOW BLK:BLACK ORG:ORANGE BRN:BROWN BLU:BLUE
- WHEN CONNECTING 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.
- REMOTE CONTROLLER MODEL VARIES ACCORDING TO THE COMBINATION SYSTEM, CONFIRM ENGINEERING DATA AND CATALOGS, ETC. BEFORE CONNECTING.
- CONFIRM THE METHOD OF SETTING THE SELECTOR SWITCH (SS1, SS2) OF WIRED REMOTE CONTROLLER AND WIRELESS REMOTE CONTROLLER BY INSTALLATION MANUAL AND ENGINEERING DATA, ETC.
- X24A IS CONNECTED WHEN THE WIRESS REMOTE CONTROLLER KIT IS BEING USED.

FXYP40K / 50K / 63KV1

NOTE-4
RECEIVER/DISPLAY UNIT
(WIRELESS REMOTE CONTROLLER)



POWER SUPPLY FOR VE TYPE 220-240V, ~, 50Hz
220V, ~, 60Hz
FOR V1 TYPE 220-240V, ~, 50Hz



ELECTRIC PARTS BOX

NOTE-5
INPUT FROM OUTSIDE
NOTE-3
TRANSMISSION WIRING
CENTRAL REMOTE CONTROLLER

WIRED REMOTE CONTROLLER
(OPTIONAL ACCESSORY)

| | | | |
|---|--|-----|--|
| 33S | LIMIT SWITCH(SWING FLAP) | H3P | LIGHT EMITTING DIODE (FILTER SIGN-RED) |
| A1P | PRINTED CIRCUIT BOARD | H4P | LIGHT EMITTING DIODE (DEFROST-ORANGE) |
| C1R | CAPACITOR (M1F) | SS1 | SELECTOR SWITCH(MAIN/SUB) |
| F1U | FUSE(250V,5A) | SS2 | SELECTOR SWITCH (WIRELESS ADDRESS SET) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) | | |
| M1F | MOTOR(INDOOR FAN) | | |
| Q1F | THERMO SWITCH (M1F EMBEDDED) | | |
| M1S | MOTOR(SWING FLAP) | | |
| R1T | THERMISTOR(AIR) | | |
| R2T-3T | THERMISTOR(COIL) | | |
| RYA | MAGNETIC RELAY(M1S) | | |
| RYP | MAGNETIC RELAY(M1P) | | |
| T1R | TRANSFORMER(220-240V/22V) | | |
| X1M | TERMINAL STRIP(POWER) | | |
| X2M | TERMINAL STRIP(CONTROL) | | |
| Y1E | ELECTRONIC EXPANSION VALVE | | |
| PC | PHASE CONTROL CIRCUIT | | |
| OPTIONAL PARTS | | | |
| M1P | MOTOR (DRAIN PUMP) | | |
| WIRED REMOTE CONTROLLER | | | |
| R1T | THERMISTOR(AIR) | | |
| SS1 | SELECTOR SWITCH(MAIN/SUB) | | |
| RECEIVER/DISPLAY UNIT(ATTACHED TO WIRELESS REMOTE CONTROLLER) | | | |
| A2P | PRINTED CIRCUIT BOARD | | |
| A3P | PRINTED CIRCUIT BOARD | | |
| BS | PUSH BUTTON(ON/OFF) | | |
| H1P | LIGHT EMITTING DIODE (ON-RED) | | |
| H2P | LIGHT EMITTING DIODE (TIMER-GREEN) | | |

- NOTES) 1. : TERMINAL
 : CONNECTOR
 : CONNECTOR
 : WIRE CLAMP
2. ---- : FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. X23A IS CONNECTED WHEN THE WIRELESS REMOTE CONTROLLER KIT IS BEING USED.
5. 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.
6. IN CASE INSTALLING THE DRAIN PUMP, REMOVE THE JUMPER CONNECTOR OF X8A AND EXECUTE THE ADDITIONAL WIRING FOR FLOAT SWITCH AND DRAIN PUMP.
7. SYMBOLS SHOW AS FOLLOWS.
(PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE)
(BLU:BLUE BLK:BLACK RED:RED)
8. USE COPPER CONDUCTORS ONLY.

C : DU221-561F

6. Capacity Tables

6.1 Cooling Capacity (FXA)

FXA-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 | TC | SHC |
| 20 | 10.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 12.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 14.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 16.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 18.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 20.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 21.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 23.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 25.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 27.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 29.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 31.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.7 | 2.0 |
| | 33.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| | 35.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.9 |
| 37.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.8 | 2.4 | 1.9 | 2.5 | 1.9 | |
| 39.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.2 | 1.8 | 2.4 | 1.9 | 2.5 | 1.8 | |
| 25 | 10.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 14.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 16.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 18.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 20.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 21.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 23.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 25.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.3 |
| | 27.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 29.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 31.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.4 | 2.2 |
| | 33.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.4 | 2.2 |
| | 35.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.1 | 2.2 | 3.3 | 2.1 |
| 37.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.1 | 2.9 | 2.2 | 3.1 | 2.1 | 3.2 | 2.1 | |
| 39.0 | 1.9 | 1.9 | 2.3 | 2.0 | 2.6 | 2.2 | 2.7 | 2.2 | 2.8 | 2.2 | 3.0 | 2.1 | 3.2 | 2.1 | |
| 32 | 10.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 14.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 16.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 18.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 20.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 21.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 23.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 25.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 27.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 29.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.8 | 4.5 | 2.7 |
| | 31.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.7 | 4.4 | 2.7 |
| | 33.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.3 | 2.7 |
| | 35.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.2 | 2.7 |
| 37.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.7 | 2.7 | 3.9 | 2.7 | 4.2 | 2.6 | |
| 39.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.5 | 2.6 | 3.6 | 2.7 | 3.9 | 2.6 | 4.1 | 2.6 | |

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.

6.2 Heating capacity (FXA)

FXA-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 |
| 20 | -13.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 |
| | -11.8 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 |
| | -9.8 | -11.0 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -5.0 | -5.6 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 | |
| 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 | |

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.

6.3 Cooling Capacity (FXYP)

FXYP-K

| 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 |
| 40 | 10.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 12.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 14.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 16.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 18.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 20.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 21.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 23.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.4 |
| | 25.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.8 | 3.3 |
| | 27.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.7 | 3.3 |
| | 29.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 31.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.2 | 3.2 | 5.5 | 3.2 |
| | 33.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.2 | 5.4 | 3.2 |
| | 35.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.2 | 5.0 | 3.2 | 5.3 | 3.1 |
| 37.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.6 | 3.1 | 4.9 | 3.1 | 5.2 | 3.1 | |
| 39.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.4 | 3.1 | 4.5 | 3.1 | 4.8 | 3.1 | 5.1 | 3.0 | |
| 50 | 10.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 12.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 14.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 16.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 18.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 20.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 21.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 23.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 25.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.2 | 4.2 |
| | 27.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 29.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.1 | 7.0 | 4.1 |
| | 31.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.5 | 4.1 | 6.8 | 4.0 |
| | 33.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.3 | 4.0 | 6.7 | 4.0 |
| | 35.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.9 | 4.0 | 6.2 | 4.0 | 6.6 | 3.9 |
| 37.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.6 | 3.9 | 5.8 | 3.9 | 6.1 | 3.9 | 6.5 | 3.9 | |
| 39.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.9 | 5.5 | 3.8 | 5.7 | 3.9 | 6.0 | 3.9 | 6.4 | 3.8 | |
| 63 | 10.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 12.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 14.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 16.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 18.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 20.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 21.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 23.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.3 | 5.3 |
| | 25.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.1 | 5.2 |
| | 27.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.2 | 9.0 | 5.1 |
| | 29.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.3 | 5.1 | 8.8 | 5.1 |
| | 31.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.2 | 5.1 | 8.7 | 5.0 |
| | 33.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.0 | 5.0 | 8.5 | 4.9 |
| | 35.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.4 | 5.0 | 7.9 | 4.9 | 8.4 | 4.9 |
| 37.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.3 | 4.9 | 7.8 | 4.8 | 8.2 | 4.8 | |
| 39.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.8 | 6.9 | 4.8 | 7.2 | 4.8 | 7.6 | 4.8 | 8.1 | 4.7 | |

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.

6.4 Heating Capacity (FXYP)

FXYP-K

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 |
| 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 | |
| 50 | -13.7 | -15.0 | 4.4 | 4.3 | 4.3 | 4.2 | 4.2 | 4.1 |
| | -11.8 | -13.0 | 4.6 | 4.5 | 4.5 | 4.4 | 4.4 | 4.4 |
| | -9.8 | -11.0 | 4.8 | 4.8 | 4.7 | 4.7 | 4.6 | 4.6 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.8 | 4.8 | 4.7 | 4.7 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 4.9 | 4.9 | 4.8 | 4.8 |
| | -7.0 | -7.6 | 5.2 | 5.1 | 5.1 | 5.0 | 5.0 | 4.9 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.3 | 5.3 | 5.2 | 5.2 |
| | -3.0 | -3.7 | 5.7 | 5.6 | 5.5 | 5.5 | 5.4 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 5.9 | 5.8 | 5.8 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.2 | 6.2 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.8 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 | |
| 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. Electric Characteristics

| Units | | | | | Power supply | | IFM | | Input(W) | |
|--------|-----------|----|---------|----------------------|--------------|-----|-------|-----|----------|---------|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | kW | FLA | Cooling | Heating |
| FXA20L | VE VEC | 50 | 220-240 | MAX. 264 Min. 198 | 0.3 | 15 | 0.040 | 0.2 | 16 | 24 |
| FXA25L | | | | | 0.4 | 15 | 0.040 | 0.3 | 22 | 27 |
| FXA32L | | | | | 0.4 | 15 | 0.040 | 0.3 | 27 | 32 |
| FXA20L | VE | 60 | 220 | MAX. 242 Min. 198 | 0.3 | 15 | 0.040 | 0.2 | 16 | 24 |
| FXA25L | | | | | 0.3 | 15 | 0.040 | 0.2 | 22 | 27 |
| FXA32L | | | | | 0.4 | 15 | 0.040 | 0.3 | 27 | 32 |

| Units | | | | | Power supply | | IFM | | Input(W) | |
|----------|------|----|---------|----------------------|--------------|-----|-------|-----|----------|---------|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXYAP40K | V1 | 50 | 220-240 | MAX. 264 Min. 198 | 0.4 | 15 | 0.023 | 0.3 | 36 | 36 |
| FXYAP50K | | | | | 0.4 | 15 | 0.037 | 0.3 | 35 | 35 |
| FXYAP63K | | | | | 0.4 | 15 | 0.037 | 0.3 | 44 | 44 |

4D014114A

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

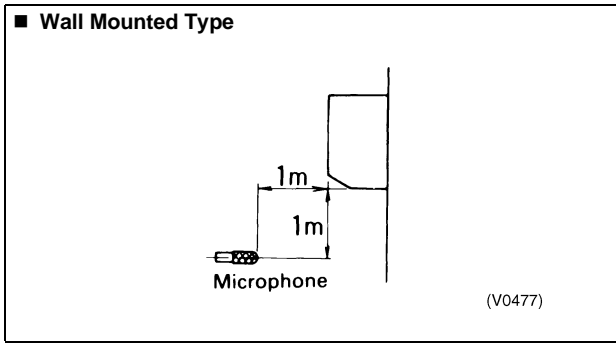
Note :

- 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.

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8. 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.

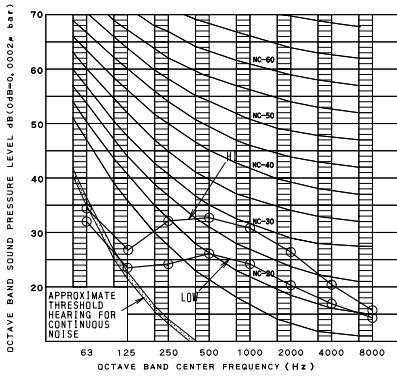
(220 / 240V) dBA

| Model | 50Hz | | 60Hz | |
|----------|------|----|------|----|
| | H | L | H | L |
| FXA20L | 35 | 29 | 35 | 29 |
| FXA25L | 36 | 29 | 36 | 29 |
| FXA32L | 37 | 29 | 37 | 29 |
| FXYAP40K | 41 | 34 | — | — |
| FXYAP50K | 43 | 38 | — | — |
| FXYAP63K | 45 | 41 | — | — |

Octave Band Level

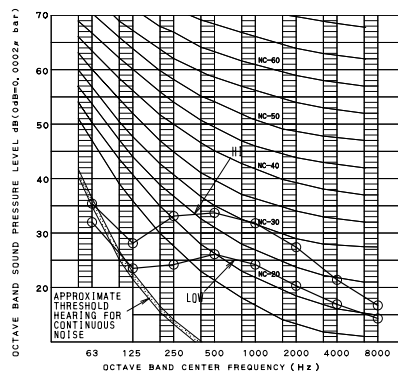
○ — ○ 220, 240V

FXA20LVE



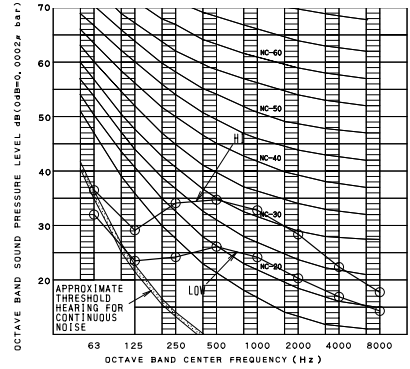
4D037087

FXA25LVE



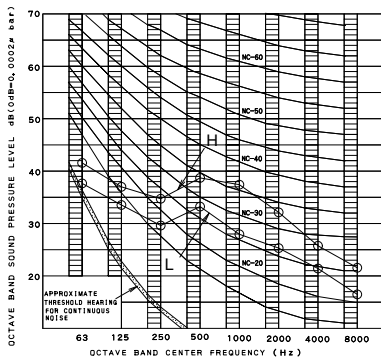
4D037088

FXA32LVE



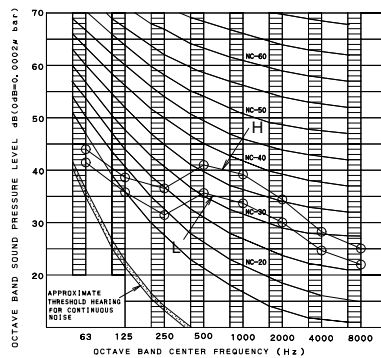
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FXYAP40KV1



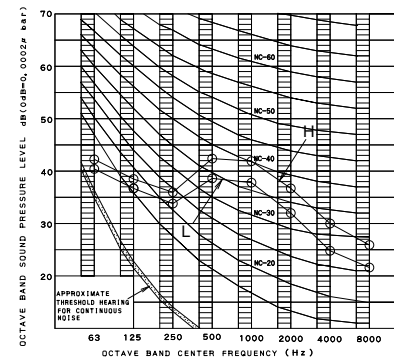
4D010308A

FXYAP50KV1



4D010309A

FXYAP63KV1

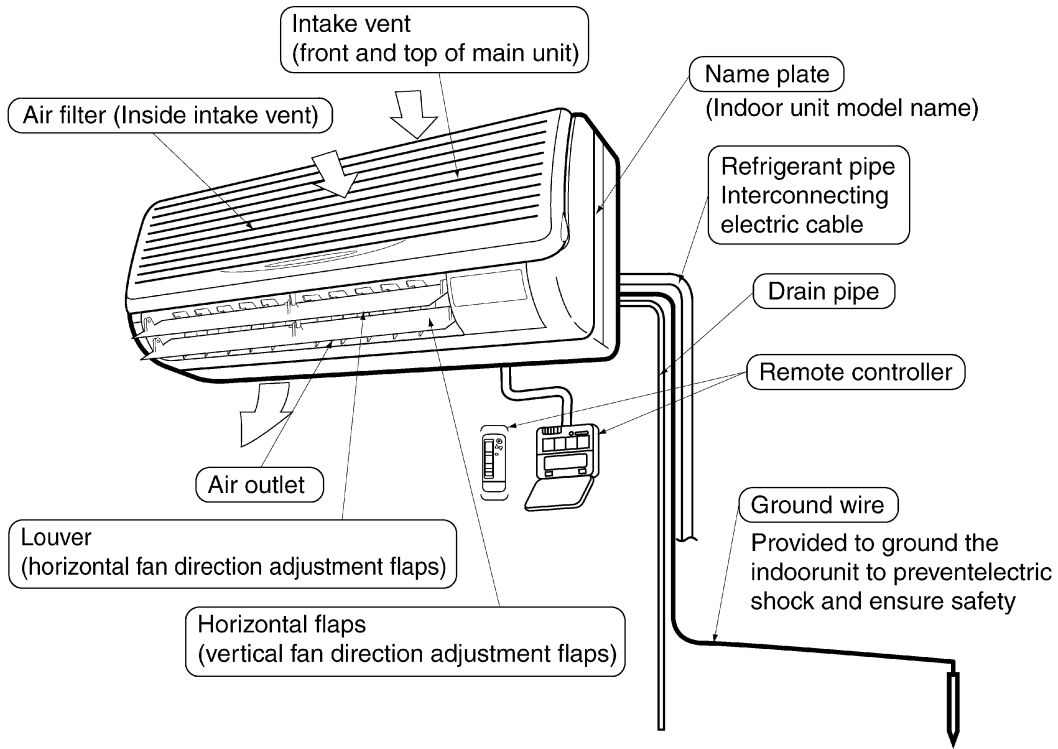


4D010313B

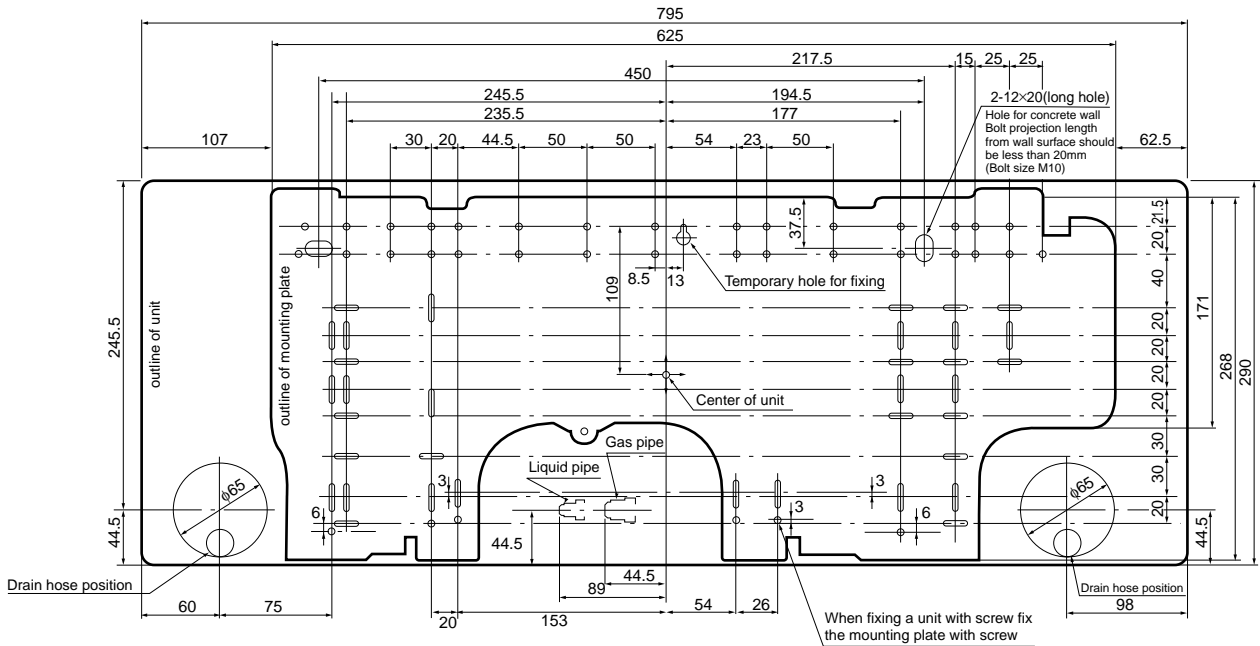
9. Installation

9.1 FXA

Installation Example



Recommended mounting-plate retention spots and Dimensions



1P079690

Service Space

(1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.

- In the upper space (including the back of the ceiling) of the indoor unit where there is no possible dripping of water from the refrigerant pipe, drain pipe, water pipe, etc.
- Where the wall is strong enough to bear the indoor unit weight.
- Where sufficient clearance for installation and maintenance can be ensured.
- Where optimum air distribution can be ensured.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where the wall is not significantly tilted.
- Where not exposed to combustible gases.
- Where piping between indoor and outdoor units is possible within the allowable limit.
(Refer to the installation manual of 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.)
- Install the indoor unit no less than 2.5 m above the floor. Where unavoidably lower, take what measures are necessary to keep hands out of the air inlet.

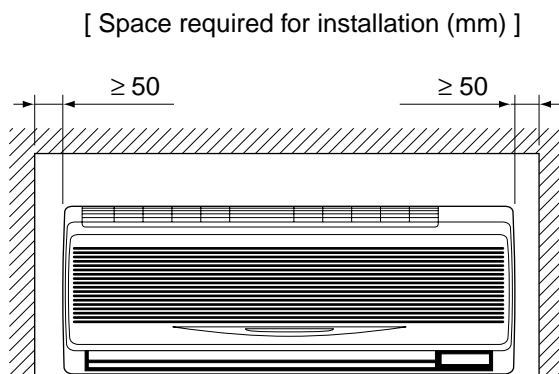


Fig. 1

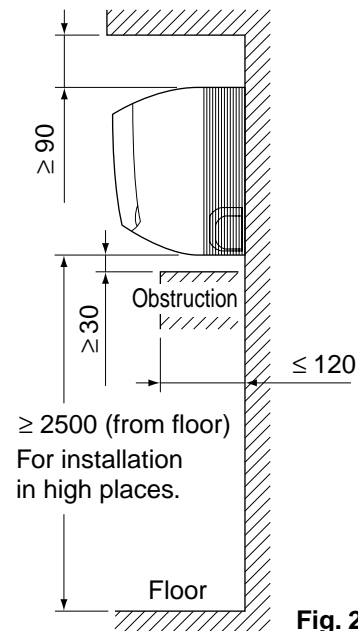


Fig. 2

- (2) Consider whether the location where the unit will be installed can support the full weight of the unit, and reinforce it with boards and beams, etc. if needed before proceeding with the installation. Also, reinforce the location to prevent vibration and noise before installing. (The installation pitch can be found on the installation pattern (3), so refer to it when considering the necessity for reinforcing the location.)
- (3) The indoor unit may not be directly installed on the wall. Use the attached installation panel before installing the unit.

Bolt Pitch

Refer to Dimensions (P.273)

Drain Piping Work

(1) Install the drain piping. (Refer to Fig. 16)

- The drain pipe should be short with a downward slope and should prevent air pockets from forming.
- Watch out for the points in the figure 16 when performing drain work.

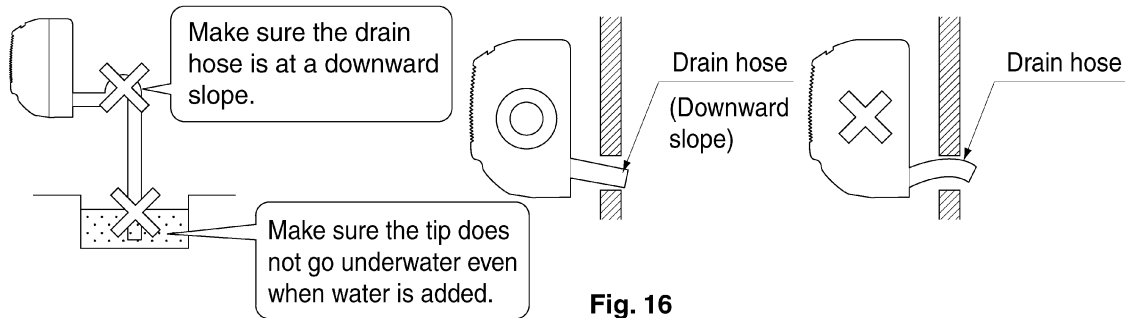


Fig. 16

- When extending the drain hose, use a commercially available drain extension hose, and be sure to insulate the extended section of the drain hose which is indoors. (Refer to Fig. 17)

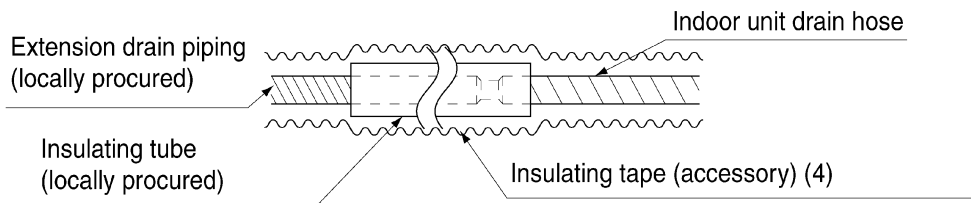


Fig. 17

- Make sure the diameter of the piping is the same as the piping (hard vinyl chloride, nominal diameter 13mm) or bigger.
- When directly connecting a hard vinyl chloride pipe joint (nominal diameter 13mm) to the drain hose connected to the indoor unit (i.e. for embedded piping, etc.), use a commercially available hard vinyl chloride pipe joint (nominal diameter 13mm). (Refer to Fig. 18)

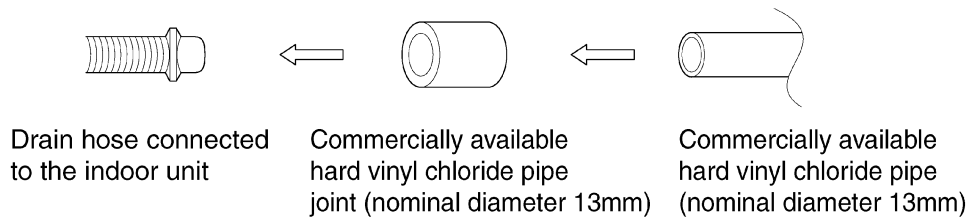
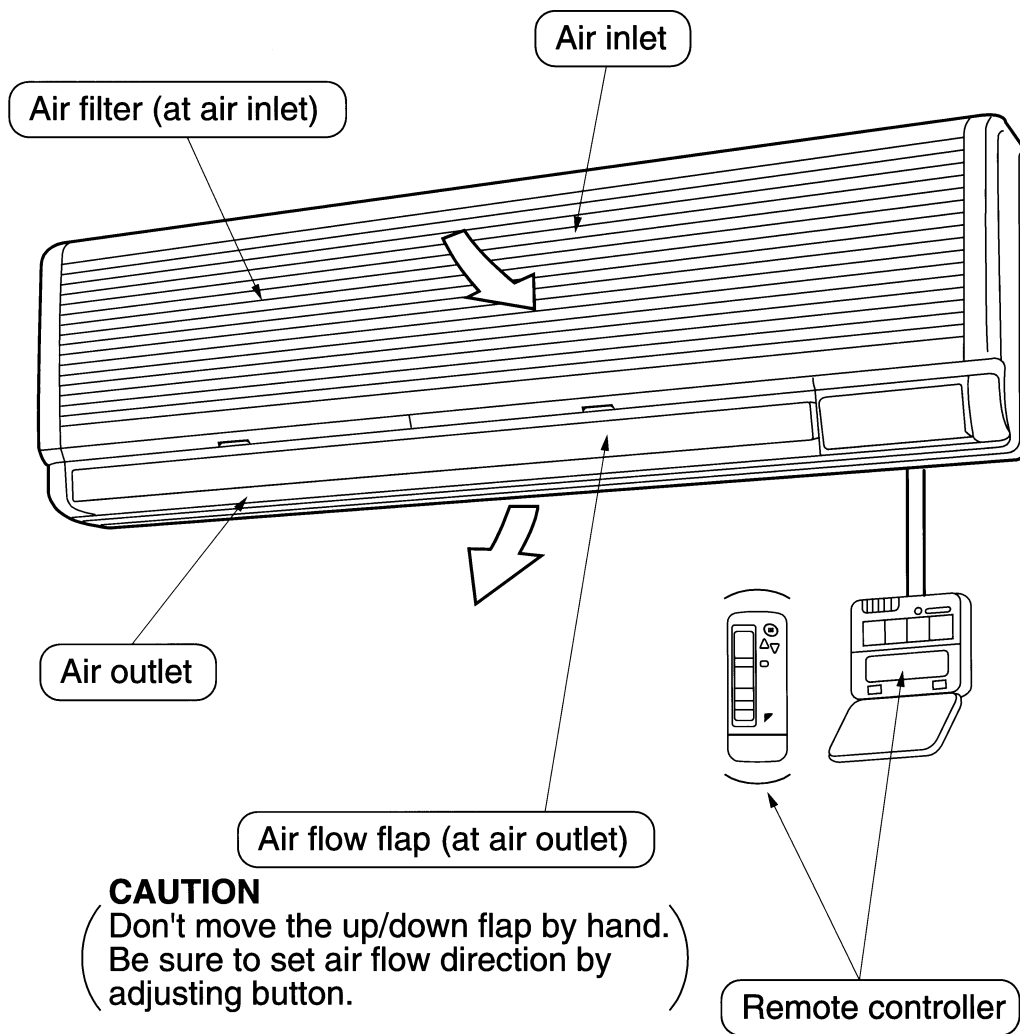


Fig. 18

9.2 FXYAP

Installation Example

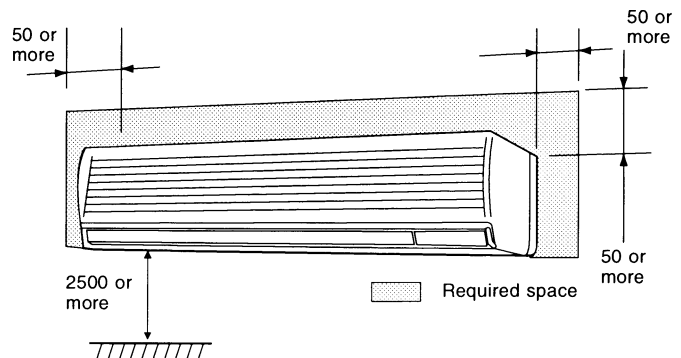


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Service Space

① Select an installation site where the following conditions are satisfied and that meets with your customer's approval.

- Where the wall is strong enough to bear the indoor unit weight.
- Where sufficient clearance for installation and maintenance can be ensured.
- Where optimum air distribution can be ensured.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where not exposed to combustible gases.
- Where piping between indoor and outdoor units is possible within the allowable limit (Refer to the installation manual of 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.)
- Install the indoor unit no less than 2.5m above the floor. Where unavoidably lower, take what measures are necessary to keep hands out of the air inlet.

② Use the installation mount for installation. Check whether the wall is strong enough to bear the weight of the unit or not. If there is a risk, reinforce the wall before installing the unit.
(The paper pattern for installation is marked for installation pitch. Hold the pattern to the wall to pinpoint where the wall needs to be reinforced.)

③ The indoor unit may not be directly installed on the wall. Use the attached installation panel before installing the unit.

3PA60996-9M-4

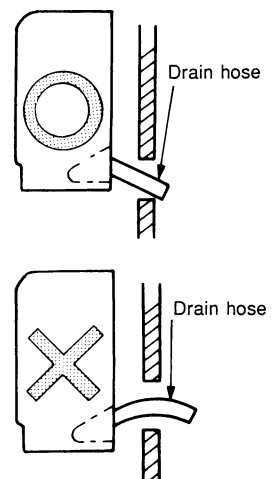
Bolt Pitch

Refer to Dimensions (P.274)

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 the drain piping.
- Keep the drain hose short and sloping downwards, as shown in the drawing, to prevent air pockets from forming.
 - Use a vinyl tube of the same size (nominal diameter: 20 mm, outer diameter: 26 mm) as the pipe connection, or larger.
 - Insulate all piping inside the building.
- ② After piping work is finished, check drainage flows smoothly.
- See "INDOOR UNIT INSTALLATION" and detach the left side panel.
 - Slowly add water to the left side of the drainage pan to check drainage flow.



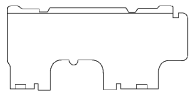

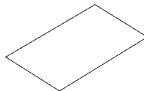
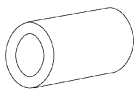
3PA60996-9M-6



10. Accessories

20~32 class

Standard Accessories

Check the following accessories are included with your unit.

| Name | (1) Installation panel | (2) Attachment screws for the installation panel | (3) Installation pattern | (4) Insulating tape |
|----------|---|---|--|---|
| Quantity | 1 set | 8 pcs. | 1 pc. | 1 pc. |
| Shape |  |  M4 × 25L |  |  |

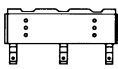





| Name | (5) Clamp | (6) Securing screws | (Other) Operation manual Installation manual |
|----------|---|---|--|
| Quantity | 1 large 3 small | 2 pcs. | |
| Shape |  |  M4 × 12L | |

40~63 class

Standard Accessories

ACCESSORIES

Check the following accessories are included with the unit.

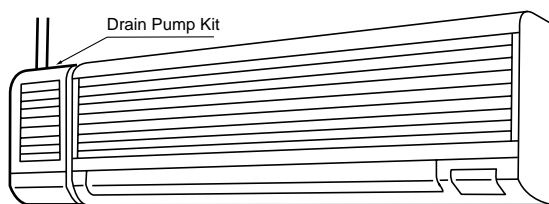
| Name | Installation panel | Insulation for fitting (for refrigerant pipe) | Insulation tape | Fixed parts | Paper pattern for installation | Other |
|----------|--|---|---|--|---|--|
| Quantity | 1 | 1 set | 2 | 2 | 1 | <ul style="list-style-type: none"> • Installation manual • Operation manual • Clamp (x 2) • Accessory screws (1 set) • C-cup washer |
| Shape |  Temporarily fixed to indoor unit. |  for liquid pipe  for gas pipe |  |  |  | |

3PA60996-9M-3

Optional Accessories (For Unit)

| No. | Item | Type | FXA20L | FXA25L | FXA32L | FXYAP40K | FXYAP50K | FXYAP63K |
|-----|----------------|------|-------------|--------|--------|------------|----------|----------|
| 1 | Drain pump kit | | K-KDU572BVE | | | KDU57A63VE | | |

Optional Accessories (For Controls) Refer to P.640



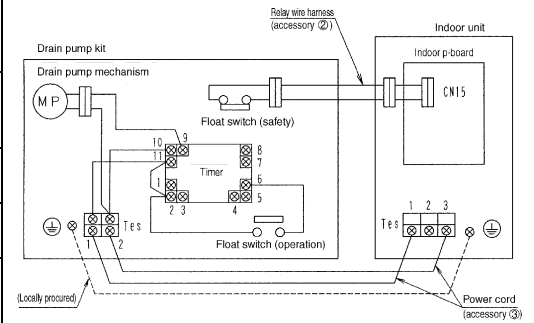
(V0682)

Drain Pump Kit — K-KDU572BVE

Specification

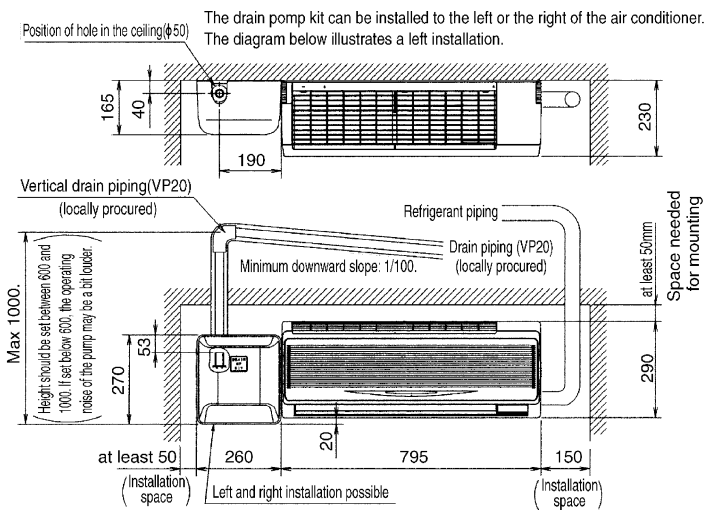
| | | | | |
|------------------------|-------------------|---------------------------|---|--------------|
| Main Applicable Models | FXA20-25-32LVE | | Drain entrance connection pipe diameter | VP20 |
| Drain up height(mm) | (Note 1) | 1,000 | Drain exit connection pipe diameter | VP20 |
| Drain up mechanism | Power source | single phase 200V,50/60Hz | Safety device | Float switch |
| | Power consumption | 12/11(W) | Operating noise(dB) | 25 |
| | Insulation | Type E | Product mass(kg) | 3.5 |

Wiring Diagram



The earth wire (copper) should be at least 2.0mm² or φ 1.6mm.
When the float switch (safety) is connected, remove the CN15 short-circuit connector.

External drawing of drain pump kit and Service space

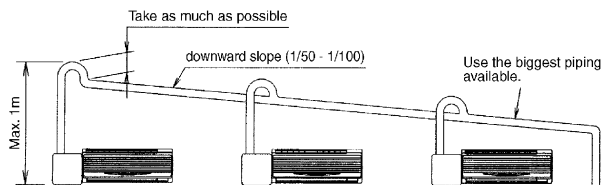
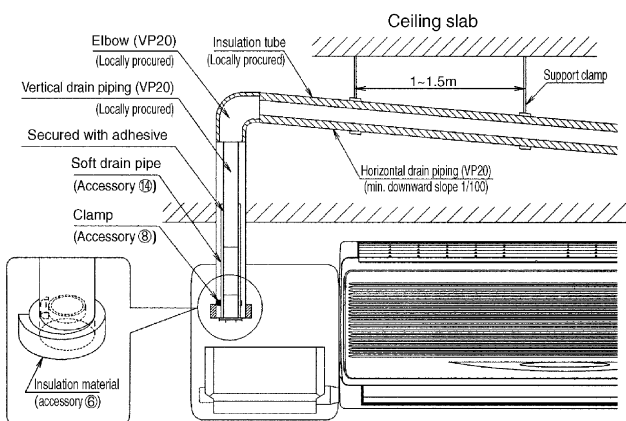


Installation

- Exit piping parts must be procured locally.
- Be sure to insulate the drain piping.
- Give the horizontal sections on the drain piping a downward slope of at least 1/100 and make sure no air bubbles accumulate.
- Secure long horizontal sections with support clamps to prevent them from shaking.

When using centralized piping

- Follow the figure below to make sure there is absolutely no back-up when using centralized piping.



Drain Pump Kit — KDU57A63VE

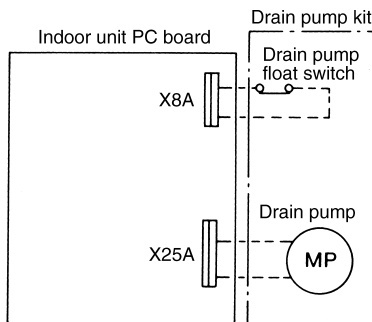
Specification

| | | |
|------------------------|-------------------|--|
| Item | Model | KDU57A63VE |
| Dimension (mm) | | 365(H)×256(W)×200(D) |
| Drain Pump Height (mm) | | 1,000 |
| Drain Outlet | | VP20 (External dia. φ32, Internal dia. φ25) |
| Pump | Power Supply | Single phase 220-240V/220V 50/60Hz (from Indoor Unit PC Board) |
| | Power Consumption | 13.5/12 (50/60Hz) |
| Applicable Model | | 40-63Class |

Precaution at use

1. Don't turn off the power within five 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.

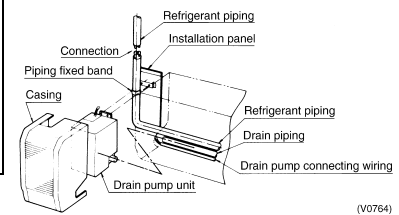
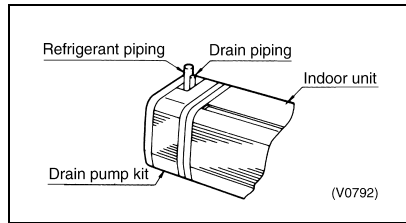
Wiring diagram



Remove the X8A short circuit connector when the float switch will be connected.

(V0763)

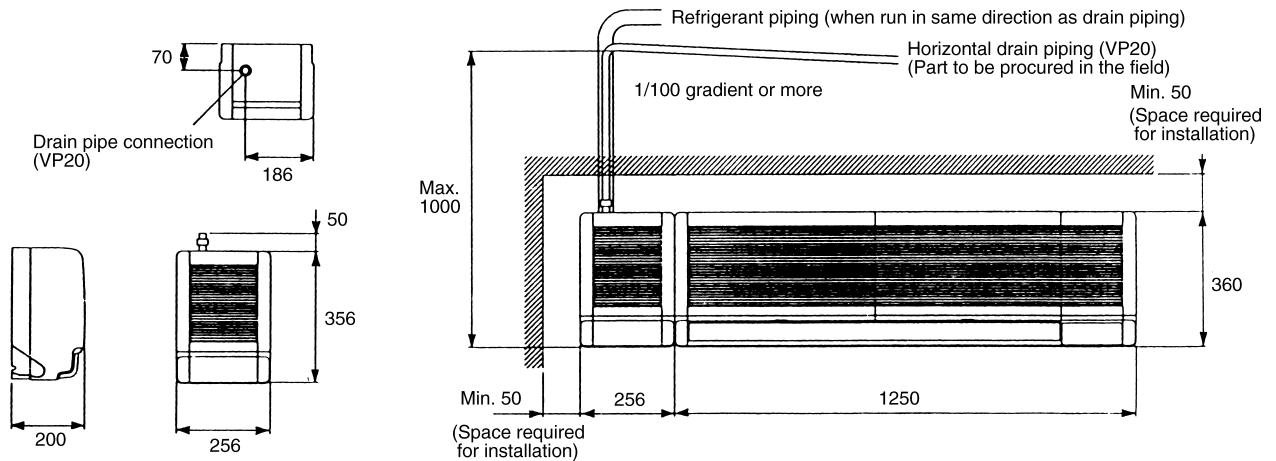
Installation



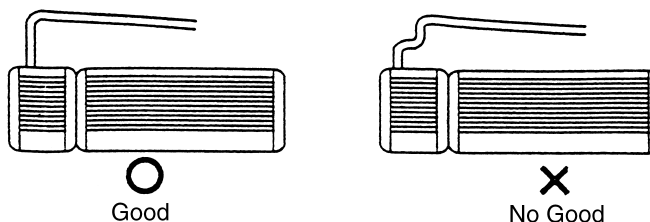
Note:

Drain pump kit's connection is set inclined downward by 15° so as to make the connecting work easy.

External drawing of drain pump kit



- The drain riser pipe must rise straightly up.



(V0765)

Note:

The connection pipe (VP20) between an air conditioner's drain outlet and a drain pump unit's inlet should be supplied locally.