

## Ceiling ducted type (AVD)

Indoor Unit Type		Ceiling Ducted Type(High Static Pressure)	
		AVD-76HJFH	AVD-96HJFH
Model Power Supply		AC, 1Φ, 220~240V, 50Hz, 1Φ, 220V, 60Hz	
Nominal Cooling Capacity *1)	kW	22.4	28.0
	kcal/h	19,300	24,100
	Btu/h	76,500	95,600
Nominal Cooling Capacity *2)	kW	23.2	28.6
	kcal/h	20,000	24,600
	Btu/h	79,200	97,600
Cooling Power Consumption	kW	0.61	0.83
Nominal Heating Capacity	kW	25.0	31.5
	kcal/h	21,500	27,100
	Btu/h	85,300	107,500
Heating Power Consumption	kW	0.61	0.83
Sound Pressure Level (Overall Scale) *4	dB(A)	49/48/47/46/45/44	53/52/50/49/47/45
Outer Dimensions Height	mm	470	470
	(in.)	(18-1/2)	(18-1/2)
Width	mm	1,250	1,250
	(in.)	(49-1/4)	(49-1/4)
Depth	mm	1,120	1,120
	(in.)	(44-1/12)	(44-1/12)
Net Weight	kg	104	104
	(lbs.)	(229)	(229)
Refrigerant	-	R410A(Nitrogen-Charged for Corrosion-Resistance)	
Indoor Fan Air Flow Rate(Hi/Me/Lo)	m <sup>3</sup> /h	3420/3240/3120/3060/ 2940/2850	4320/4080/3900/3660/ 3450/3000
	(cfm)	(2012/1906/1835/1800/ 1730/1677)	(2541/2400/2294/2153/ 2030/1765)
External Pressure *3)	Pa	150 (50~250)	150 (50~250)
Piping Connection	-	Brazeing	
Liquid Line	mm	Φ9.53	Φ9.53
	(in.)	(3/8)	(3/8)
Gas Line	mm	Φ22.2	Φ22.2
	(in.)	(7/8)	(7/8)
Condensate Drain	-	VP25	VP25
Approximate Packing Measurement	m <sup>3</sup>	1.08	1.08

### NOTES:

- The nominal cooling capacity is the combined capacity of the Hisense standard split system.

#### Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)  
 \*1) 19.0°C WB (66.2°F WB)  
 \*2) 19.5°C WB (67°F WB)

Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

#### Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)  
 Outdoor Air Inlet Temperature: 7°C DB (45°F DB)  
 6°C WB (43°F WB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

- The sound pressure level is based on following conditions.

1.5m below the unit.

With discharge duct (2.0m) and return duct (1.0m).

Voltage of the power source for the indoor fan motor is 220V.

In case of the power source of 240V, the sound pressure level increases by about 1 dB.

The above data were measured in an anechoic chamber so that reflected sound should be taken into consideration on the job site

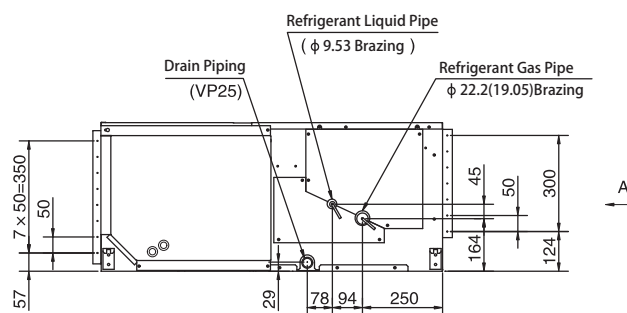
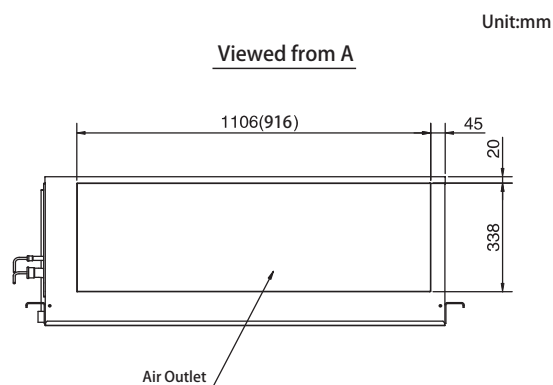
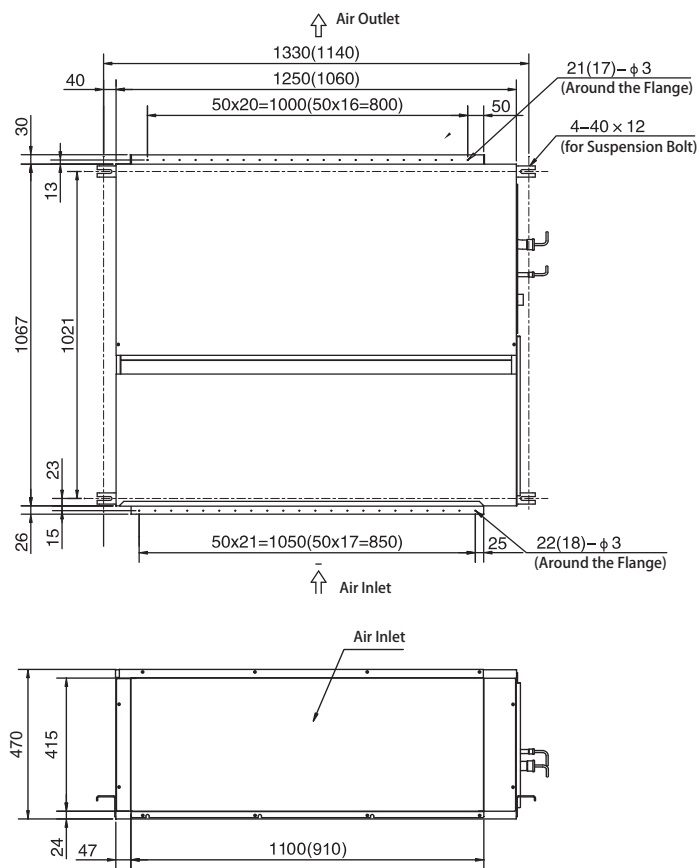
- The data for external pressure \*3) indicates Standard Pressure Setting values when a filter is not used.

- The above air flow rate and noise level are tested with AC 220V power supply and without filter.

\*4) The noise value for AVD-\*\*HJFH is the value corresponding to external static pressure of 150Pa.

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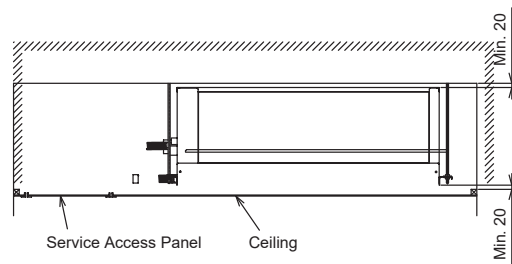
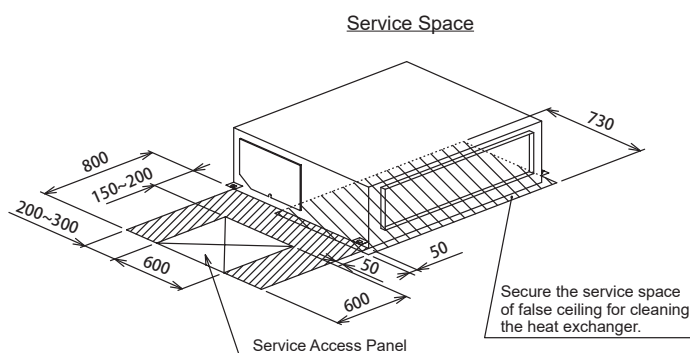
Models: AVD-76/96\*



NOTES: Data in the bracket is for AVD-76\* model.

Data of AVD-76/96UX2SFH and AVD-96\* are the same.

Data of AVD-76HJFH and AVD-96HJFH are the same.



\* Prepare the Service Access Panel for service.  
\* In case that the ceiling board is not be detachable for servicing, prepare a service access panel below the indoor unit for removing the indoor unit.

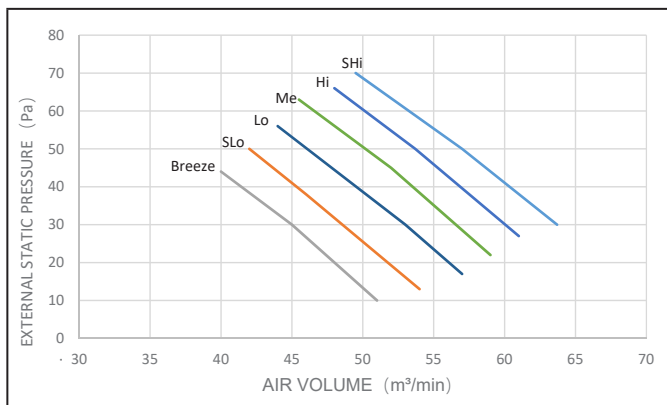
### ● Sensible Heat Factor (SHF)

The sensible heat factor of indoor units at each fan speed (Hi, Me, Lo) is given in the below.

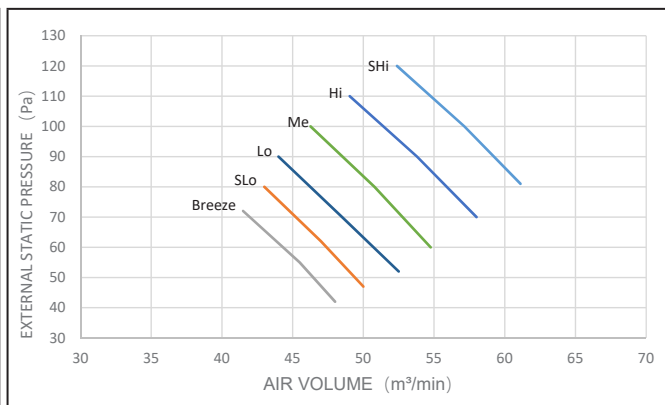
Indoor Unit Model	SHF		
	Hi	Me	Lo
AVD-76 HJFH	0.72	-	-
AVD-96 HJFH	0.74	-	-

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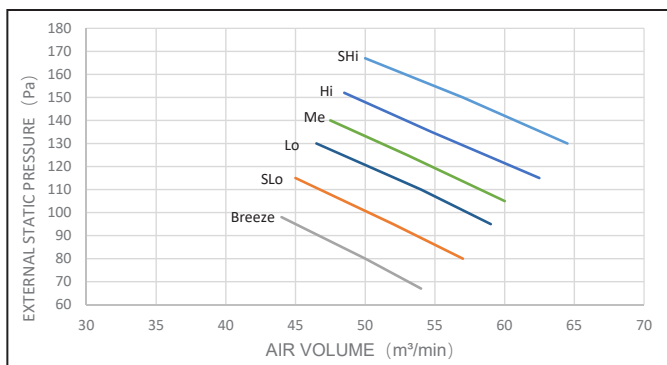
AVD-76HJFH (50 Pa)



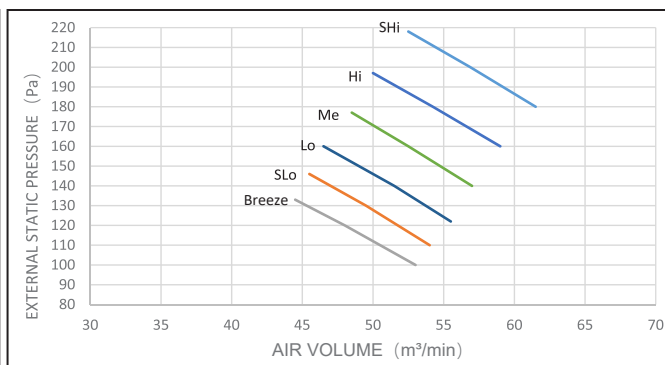
AVD-76HJFH (100Pa)



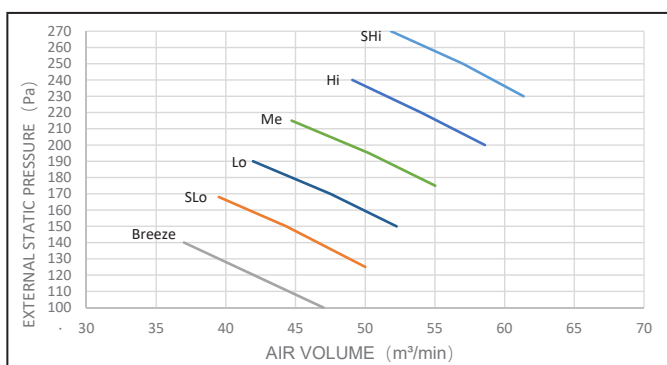
AVD-76HJFH (150Pa)



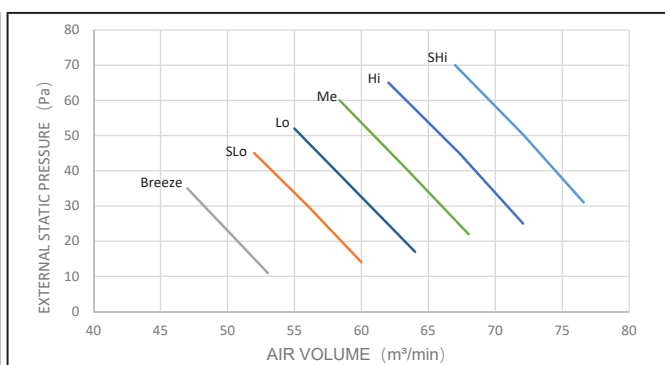
AVD-76HJFH (200Pa)



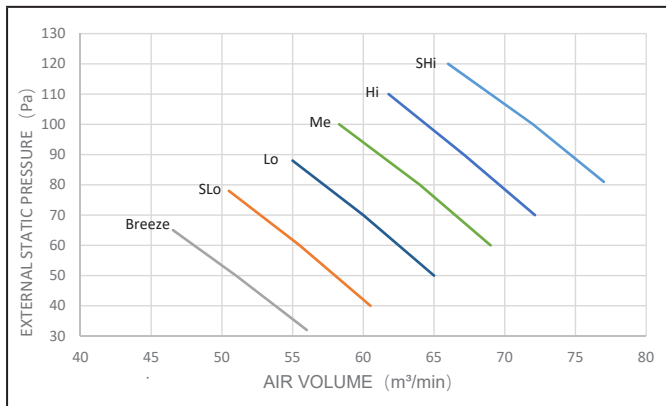
AVD-76HJFH (250Pa)



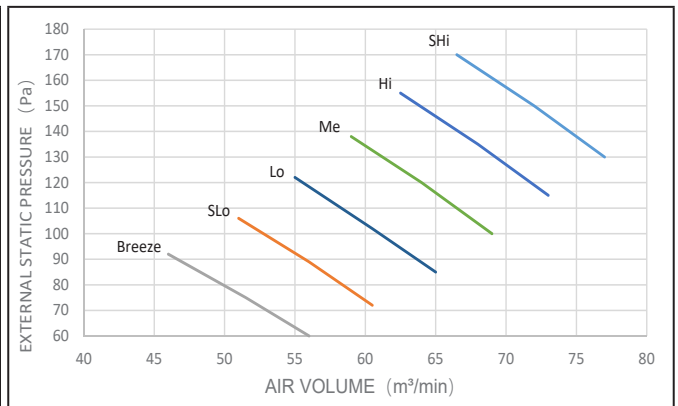
AVD-96HJFH (50Pa)



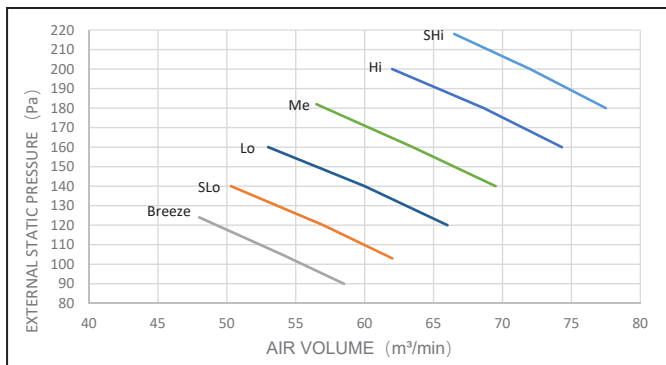
AVD-96HJFH (100Pa)



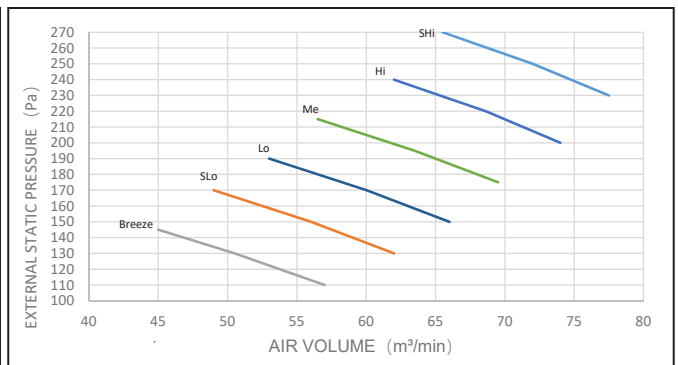
AVD-96HJFH(150 Pa)



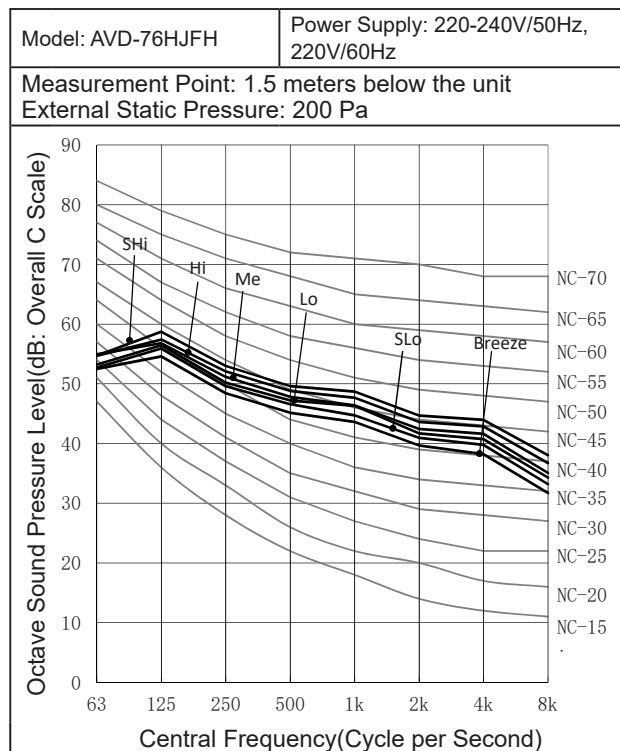
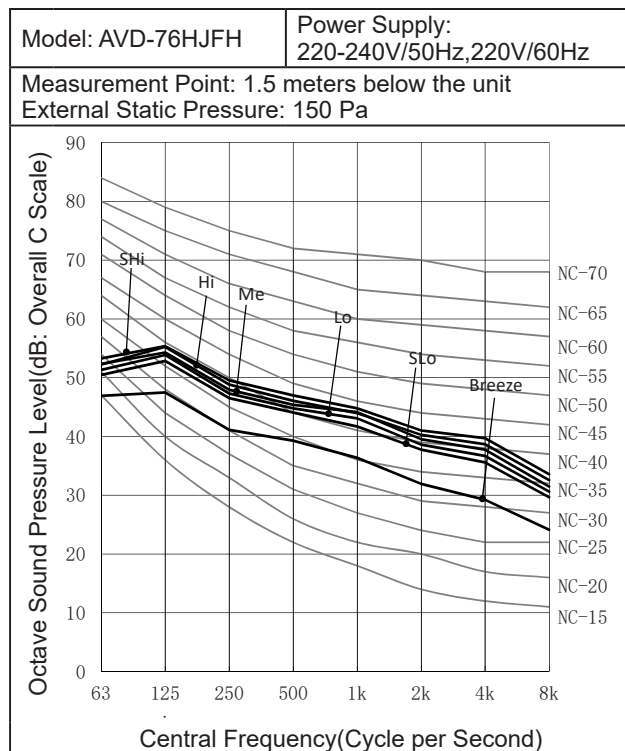
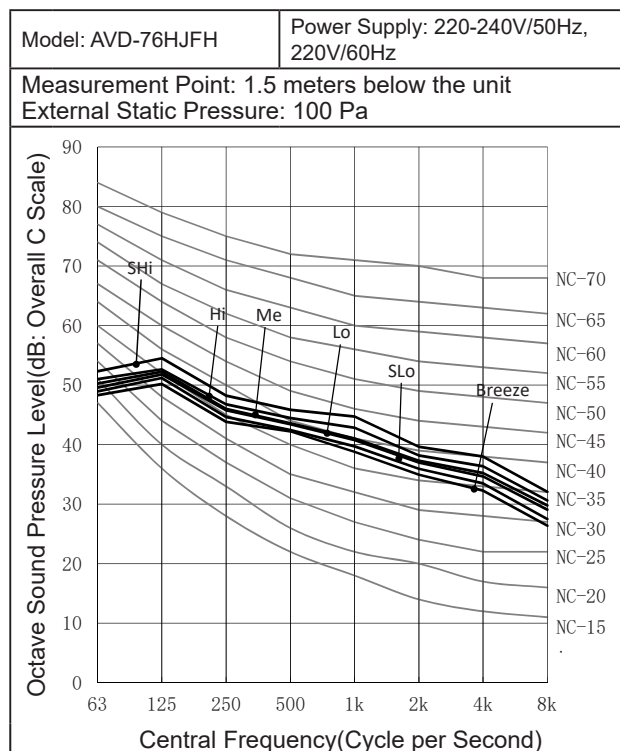
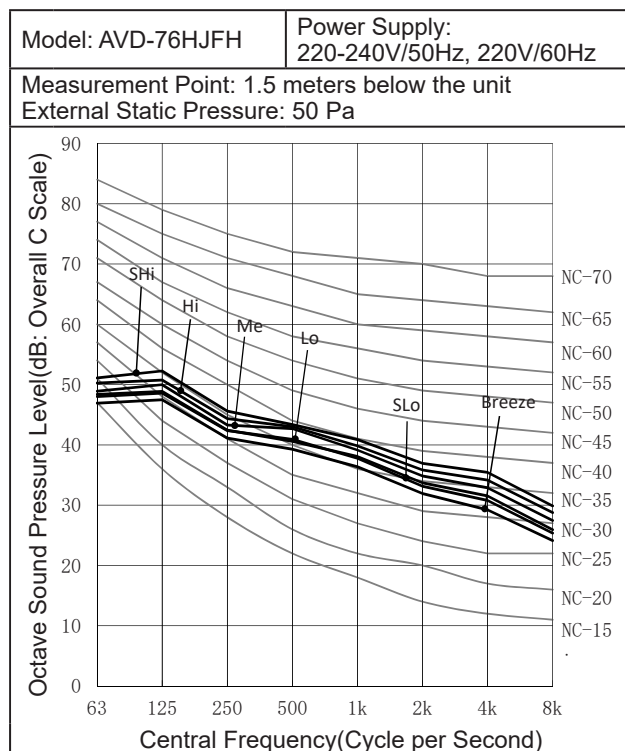
AVD-96HJFH (200Pa)

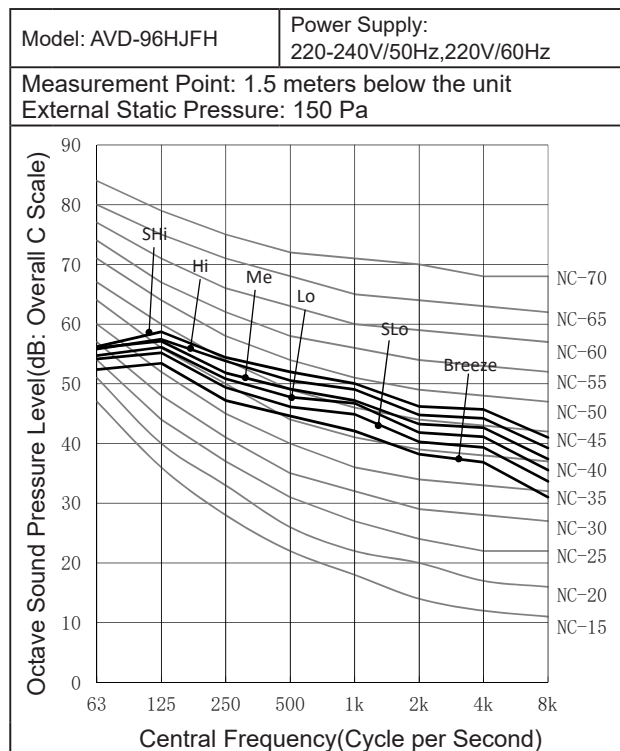
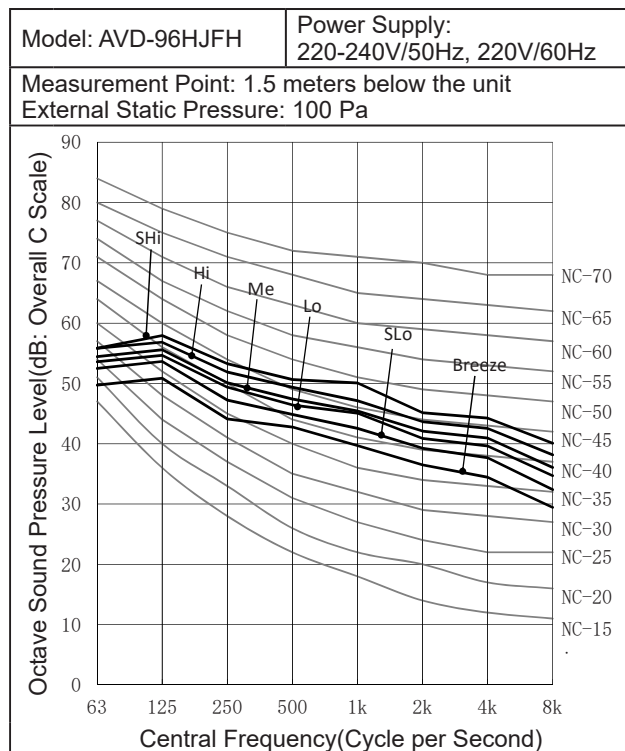
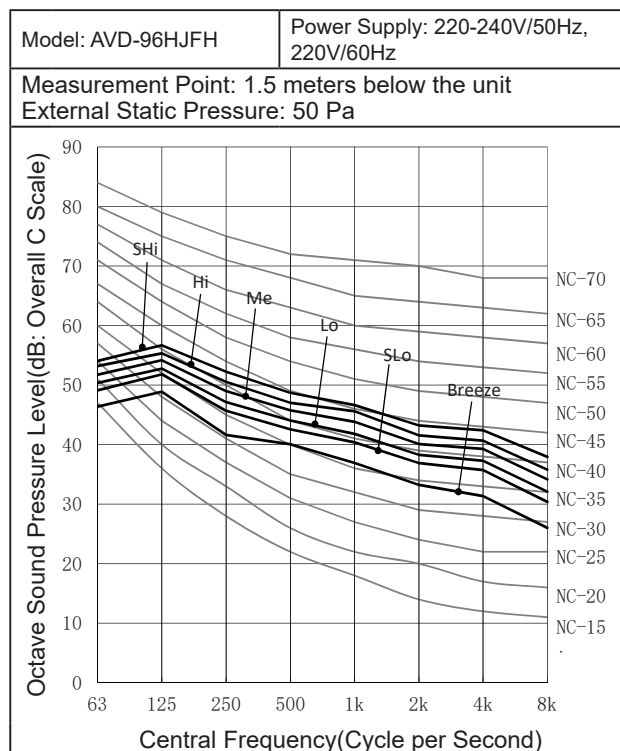
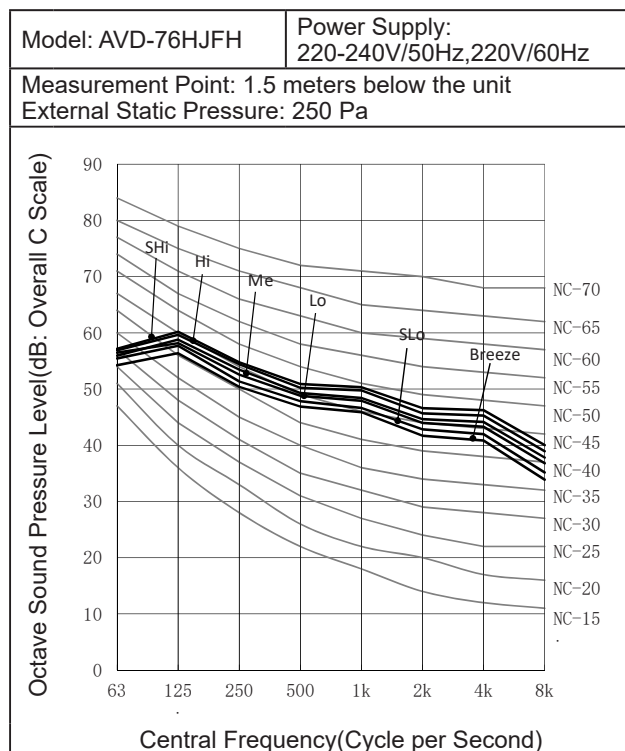


AVD-96HJFH (250 Pa)

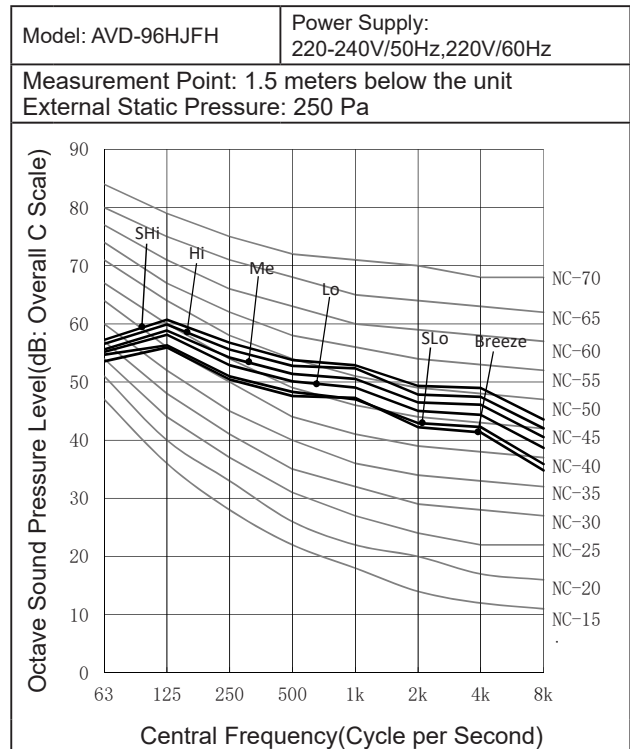
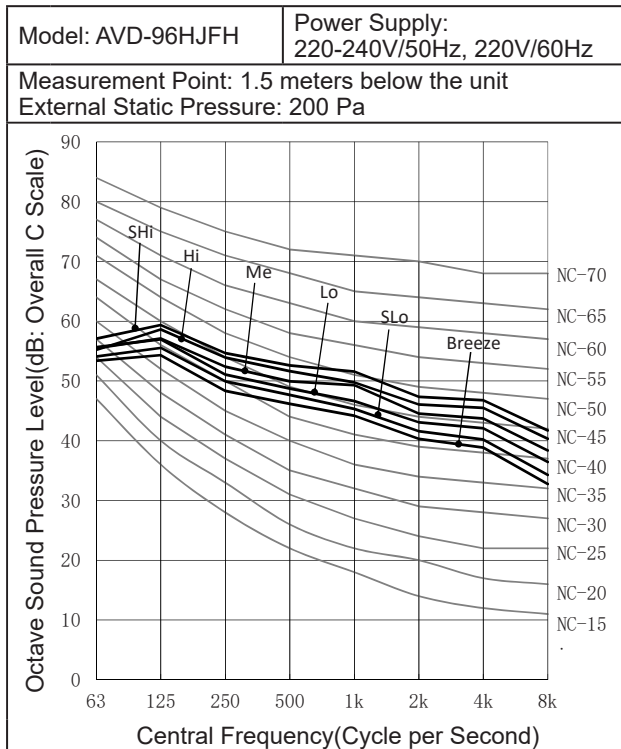


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Model			AVD-76HJFH	AVD-96HJFH
Heat Exchanger Type	-	Multi-Pass Cross Finned Tube		
Tube Material		Copper Tube		
Outer Diameter	mm		7.0	7.0
Rows	-		3	3
Fin Material		Aluminum		
Pitch	mm		1.9	1.9
Maximum Operating Pressure	MPa		4.15	4.15
Total Face Area	m <sup>2</sup>		0.62	0.62
Number of Coil/Unit	-		1	1
Indoor Fan		Multi-Blade Centrifugal Fan		
Number/Unit	-		2	2
Outer Diameter	mm		250	250
Revolution (220V)	rpm		1280	1375
Nominal Air Flow	m <sup>3</sup> /h		3420	4320
Indoor Fan Motor			DC	
Starting Method	-		Variable Frequency Drive	
Nominal Output	W		750	750
Quantity	-		1	1
Insulation Class	-		B	B

\*: Nominal output is the power on the nameplate of motor;

\*: The revolution and air flow of AVD-76/96HJFH is the maximum value.

## Electrical Data

< 50 Hz >

Indoor Unit

Model	Unit Main Power			Applicable Voltage		Indoor		
	VOL	PH	HZ	Maximum	Minimum	PH	RNC	IPT
AVD-76HJFH	220~240	1	50	264	198	1	3.26	0.61
AVD-96HJFH							4.49	0.83

VOL: Rated Unit Power Supply Voltage (Plated)(V)

PH: Phase (φ)

HZ: Frequency (Hz)

RNC: Running Current (A)

IPT: Input (kW)



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## 5.8 Optional Parts

Type	Model	Applied Indoor Unit Type AVD-76HJFH/AVD-96HJFH
Wireless Controller	HYE-VD01	●
Wireless Receiver	HYRE-V02H	●
Wired Controller	HYXE-VA01A	●
	HYXE-J01H	●
	HYXE-J01H1	●
	HYXE-J01H2	●
	HYXE-M01H	●
	HYXE-VC01	●
	HYXM-VB01	●
	HYXM-VB01#01	●
	HYXE-S01H	●
	HYXM-VB01A	●
	HYXM-VB01A#01	●
Hi-Motion	HCM-S01E	●
APP control-Hi-mit	HCCS-H64H2C1M	●
Centralized Controller	HYJM-S01H	●
Air conditioning Management System	HYJE-H01H	●
	HCCS-H160H2C1NM	●
	HCCS-H160H2C1YM	●
Building Management Converter	HS-RC-KNX-1i	●
	HS-AC-KNX-16	●
	HS-AC-KNX-64	●
	HS-AC-BAC-16	●
	HS-AC-BAC-64	●
	HCPC-H2M1C	●
Service tool Hi-checker	HCCS-H64H2C2M	●
Drain Pump	HPS-F8103E	●
Filter box	HFB-96LFGDE	●
Primary filter	HF-96LFGDE	●
G4 filter	HF-96HFGDE	●

Notes: ● optional: √ Standard, X Incompatible

## Factory-Supplied Accessories

Check to ensure that the following accessories are packed with the indoor unit.

Accessory	Q'ty	Purpose
Washer 	8	For Unit Suspension
Hose Clamp 	1	For Drain Hose Connection
Insulation (26 ID x 105) 	1	For Refrigerant Liquid Piping
Insulation (28 ID x 85) 	1	For Refrigerant Gas Piping
Cord Clamp 	8	For Fixing Thermal Insulation For Refrigerant Pipings
Change-over tube 	1	Connection of refrigerant pipe between indoor unit and outdoor unit (only for AVD-76HJFH)

AVD-76~96\*

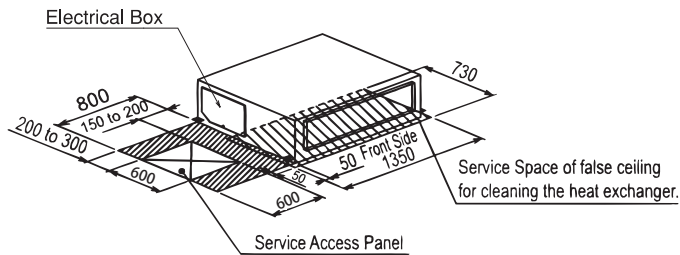


Fig.5.1 Operation and Installation Space

- Take the air distribution from the indoor unit to the space of the room into consideration, and select a suitable location so that uniform air temperature in the room can be obtained.
- Do not install flammable parts in the service space of the indoor unit.
- Avoid obstacles which may hamper the flow of inlet or outlet air.
- Do not install the indoor unit in a machine shop or kitchen where vapor from oil or its mist flows to the indoor unit.
- The oil will deposit on the heat exchanger, thereby reducing the indoor unit performance, and may deform or even break the plastic parts of the indoor unit.
- Pay attention to the following points when the indoor unit is installed in a hospital or other facilities where there are electronic waves.

(A) Do not install the indoor unit where the electromagnetic wave directly radiates to the electrical box, remote control cable or remote control switch.

(B) Install the indoor unit and components as far as practical or at least 3 meters from the electromagnetic wave radiator.

(C) Prepare a steel box and install the remote control switch in it. Prepare a steel conduit tube and wire the

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remote control cable in it. Then, connect the ground wire with the box and the tube.

(D) Install a noise filter when the power supply emits harmful noises.

- To avoid corrosion to the heat exchangers, do not install the indoor unit in an acidic or alkaline environment.

## ! WARNING

**Check to ensure that the number below is within 0.42kg/m<sup>3</sup>. Otherwise it may lead to dangerous situation if the refrigerant in the Outdoor Unit leaks into the room where this Indoor Unit is installed.**

$$\frac{(\text{Total Refrigerant Quantity per one Outdoor Unit})}{\left( \frac{\text{Volume of the room where this Indoor Unit is installed.}}{\text{m}^3} \right)} \leq 0.42 \text{kg/m}^3$$

**This value should be decided according to the each country's regulation such as ISO5149, EN378 and ASHRAE Standard 15.**

### 5.10.2 Installation

#### 5.10.2.1 Suspension Bolts

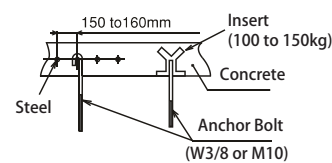
##### Step 1

Select final location and installation direction of the indoor unit, paying careful attention to the space for piping, wiring and maintenance.

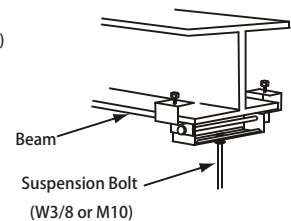
##### Step 2

Mount suspension bolts, as shown in Fig. 5.2

#### • For Concrete Slab



#### • For Steel Beam



#### • For Wooden Beam Suspension

Wooden Bar (60mm to 90mm Square)

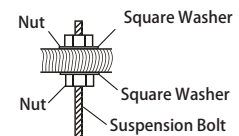
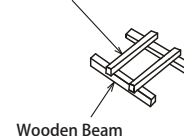


Fig.5.2 Mounting of Suspension Bolts

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### 5.10.2.2 Marking of the Positions of the Sling Bolts and Piping Connections

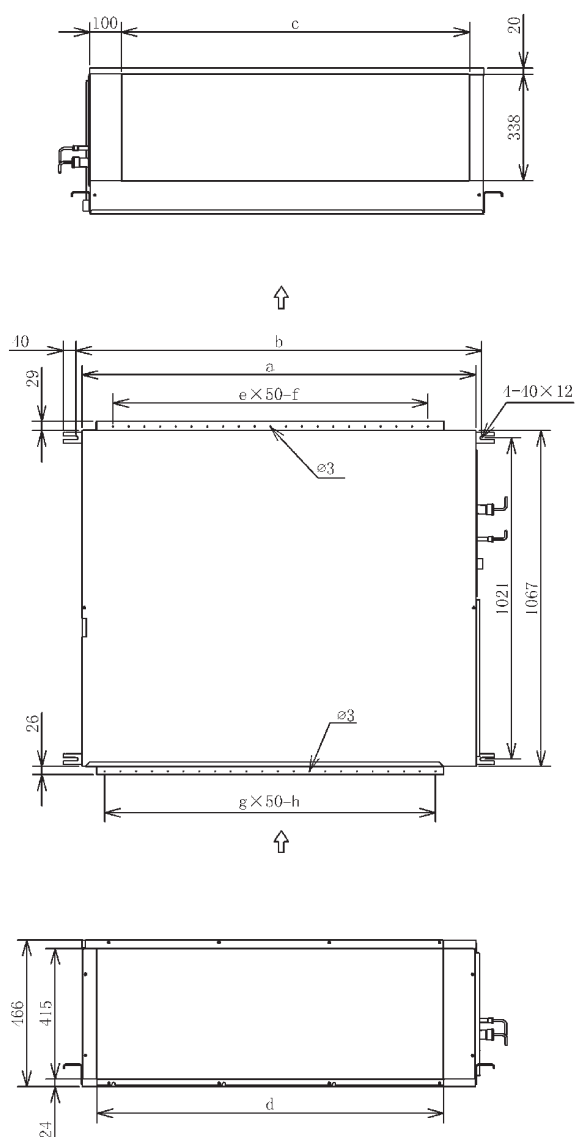
- (1) Mark the positions of the sling bolts, refrigerant piping connections and drain connection.
- (2) Installation dimensions are shown in Fig. 5.3

### 5.10.2.3 Mounting the Indoor Unit

Hang the indoor unit as shown in Fig. 5.4

Field-Supplied Parts

\*Sling Bolts      4-M10 Or W3/8  
\*Nut              8-M10 Or W3/8



Model	a	b	c	d	e	f	g	h
76 96	1250	1288	1106	1100	20	1000	21	1050

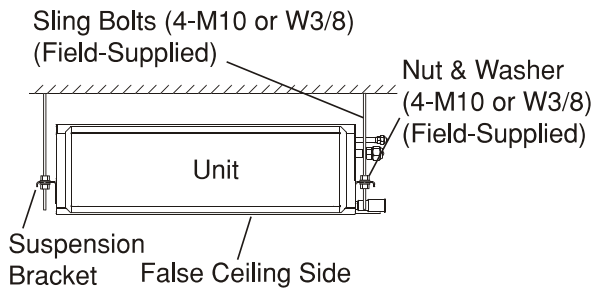


Fig.5.4 Hanging Indoor Unit

(1) How to put nuts or sling bolts

Put nuts on each of the four hanging bolts, as shown in Fig. 5.5

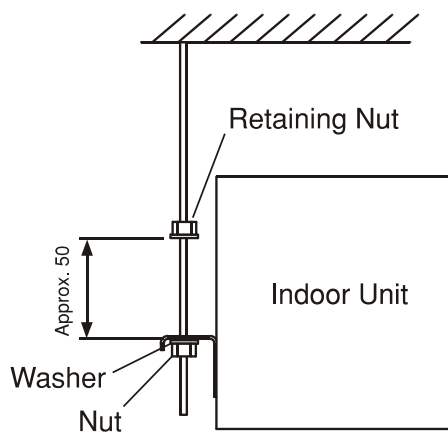


Fig.5.5 Sling Bolts and Nut

(2) Hanging the indoor unit

- \* Hook suspension bracket to the nut and washer of each hanging bolt, as shown. Starting at the opposite side to service cover side.
- \* After checking that the nut and washer are correctly fixed by the retainers of the suspension bracket, hook the suspension bracket of the service cover side to the nut and washer.  
(Put the sling bolts away from the unit when hooking.)

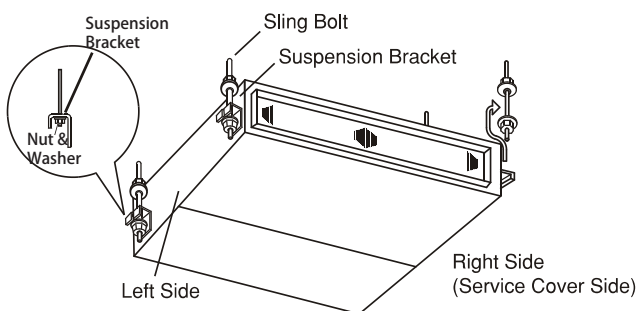


Fig.5.6 Hanging Indoor Unit

5.10.2.4 Adjusting of the Unit Level

- (1) Check to ensure that the foundation is flat. Taking into account the maximum foundation gradient.

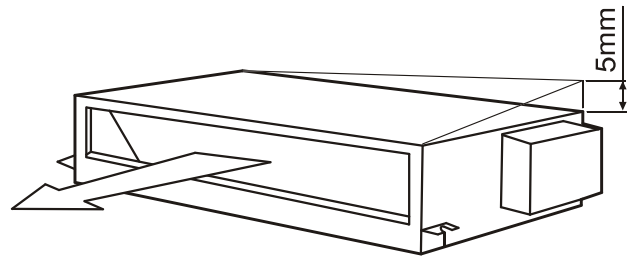


Fig.5.7 Foundation Gradient

- (2) The unit should be installed so that the rear side of the unit is slightly (0mm~5mm) lower than the front side, in order to avoid the incorrect position of the drain discharge.
- (3) Tighten the bolts of the sling nuts with the suspension brackets after adjustment is completed.  
Special plastic paint must be applied to the bolts in order to prevent them from loosening.

**NOTE**

Keep the unit as well as relevant equipment covered with the vinyl cover during installation.

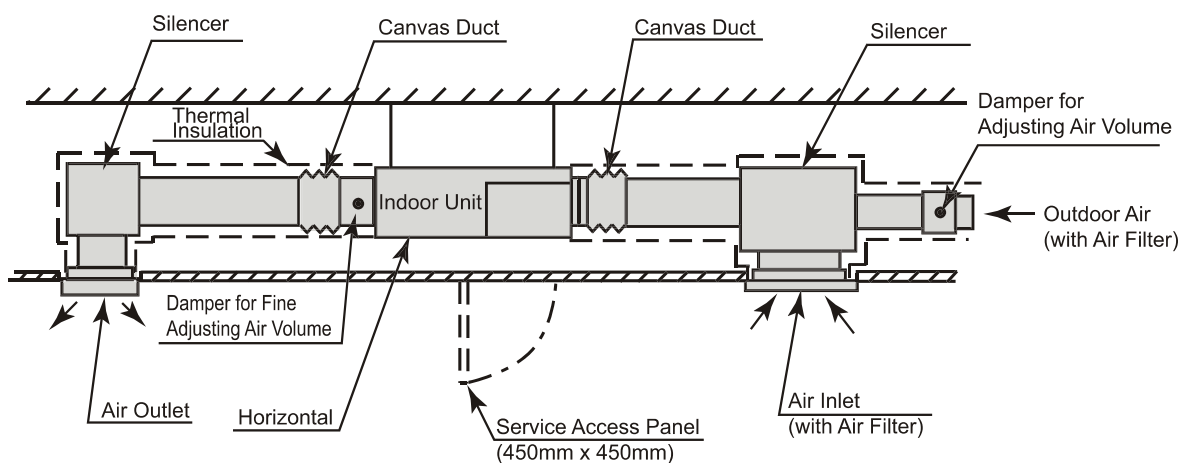
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### 5.10.2.5 Connecting Duct

- (1) The duct should be connected with the indoor unit through canvas ducts, in order to avoid abnormal sound or vibration (Refer to Fig. 5.8). The unit is equipped with a pre-drilled duct flange for connection.
- (2) Attach the vibration proof rubber to sling bolt in order to avoid abnormal sound or vibration.
- (3) Duct material should be non-flammable material.
- (4) Perform the heat insulation work over the duct for dew protection.

## CAUTION

- If a lower sound level is required, install silencer (field-supplied).
  - Design of duct arrangement is as per “Unit External Static Pressure=Pressure Drop of Duct+Pressure Drop of Air Outlet and Air Inlet”.
- If duct design is not appropriate, loud sound and splash will occur.



Model	Static Pressure(Pa)
AVD-76/96HJFH	50~250(150*)

\* : Before Shipment

## ! DANGER

**Charge refrigerant R410A in the refrigerant cycle. Do not charge oxygen, acetylene or other flammable and poisonous gases into the refrigerant cycle when performing a leakage test or an air-tight test. These types of gases are extremely dangerous and can cause an explosion. It is recommended that compressed air, nitrogen or refrigerant be used for these types of tests.**

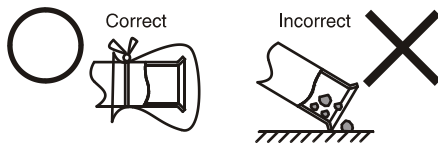
### 5.10.3.1 Piping Materials

- (1) Prepare locally-supplied copper pipes.
- (2) Select clean copper tubes making sure there is no dust and moisture inside the tubes.  
Before connecting pipes, purge the tubes with nitrogen or dry air to remove any dust or foreign matters.

### 5.10.3.2 Piping Connection

## ! CAUTION

- Cap the end of the pipe when the pipe is to be inserted through a hole.
- Do not put pipes on the ground directly without a cap or vinyl tape at the end of the pipe

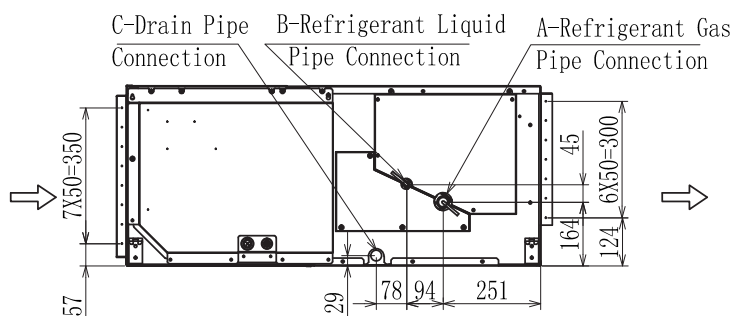


- An excess or a shortage of refrigerant is the main cause of trouble to the units.  
Charge the correct refrigerant quantity.

(1) Position of piping connection is shown below.

Unit:mm

### AVD-76~96HFJH



Model (10 <sup>3</sup> Btu/h)	A	B	C
76-96	φ 22.2(7/8)	φ 9.53(3/8)	VP 25

Fig. Position of Piping Connection

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Before brazing the gas pipe of 76 model, the change-over tube needs to be brazed to the gas pipe, and the end of the change-over tube with positioning point faces outward, as is shown in the figure below. After the change-over tube is brazed, the diameter of the gas pipe changes from 22.2mm to 19.05mm.

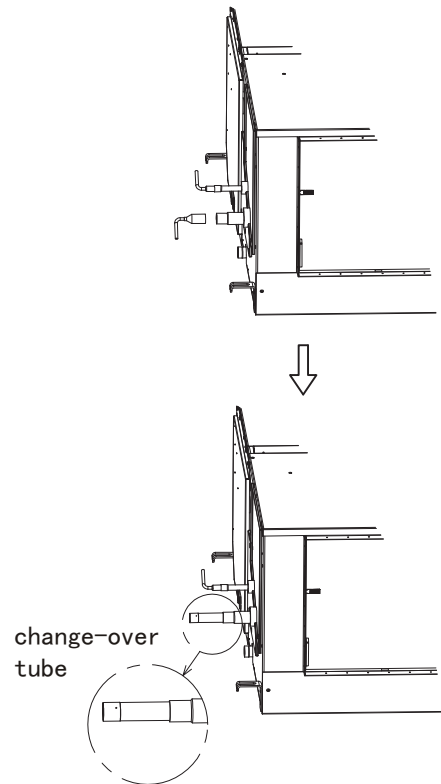


Fig. Brazing Change-over Tube

- After brazing, insulate the pipes after checking that there is no leakage. At the time, be sure to cover the space between two insulating pieces by insulation pipe (factory-supplied accessory).

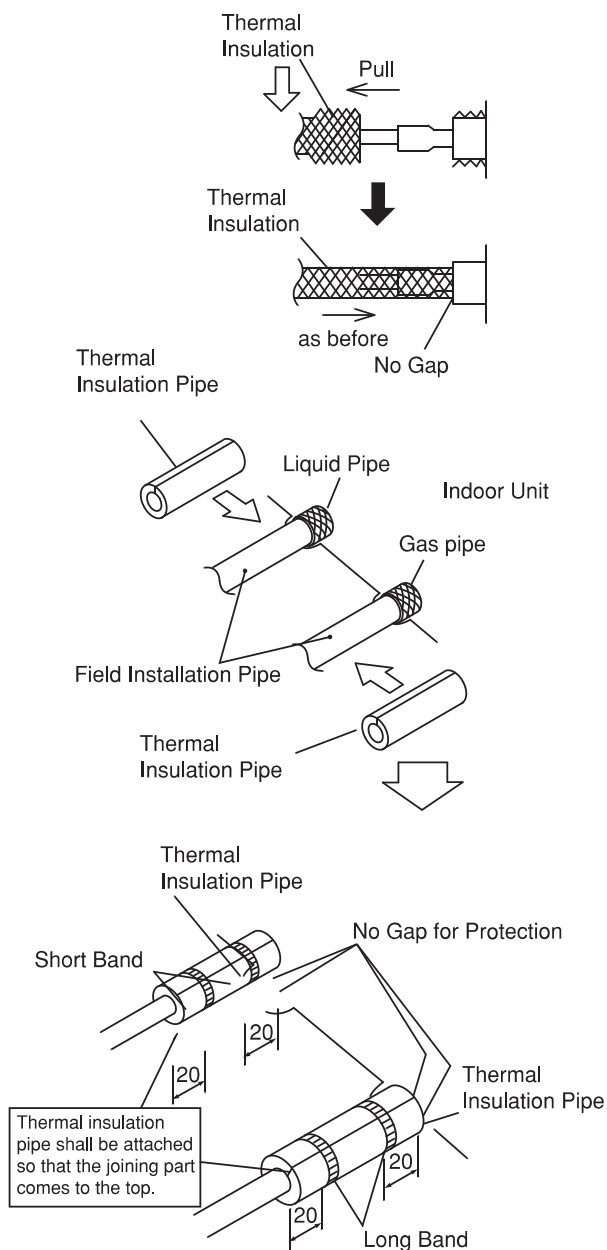


Fig Insulating Pipes

#### 5.10.4 Drain Piping

- (1) The position of the drain piping connection is shown in Fig. 5.12 .
- (2) Prepare polyvinyl chloride pipe with a 32mm outer diameter.
- (3) Fasten the tube to the drain hose with the adhesive agent and the field-supplied clamp. The drain piping must be performed with a DOWN-SLOPE pitch of 1/25 to 1/100.
- (4) Insulate the drain pipe after connecting the drain hose.

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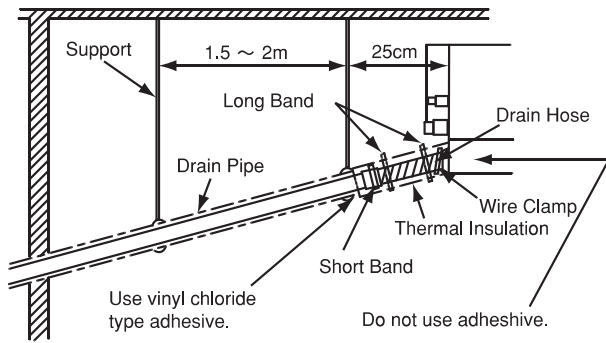


Fig.5.12 Drain Piping

### NOTE

When the relative humidity of inlet air or ambient air exceeds 80%, apply an (field-supplied) auxiliary drain pan below the indoor unit as shown in Fig.5.13 .

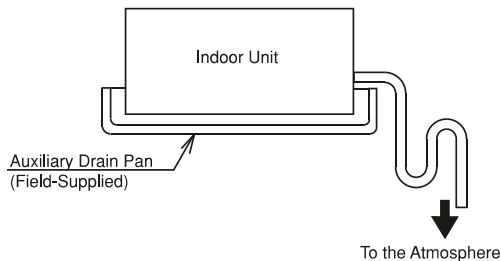


Fig.5.13 Auxiliary Drain Pan

### NOTE

- (1) **Do not provide an upslope or rise for the drain piping, since drain water can flow back to the unit and leakage to the room will occur when the unit operation is stopped.**
- (2) **Do not connect the drain pipe with sanitary or sewage piping or any other drainage pipings.**
- (3) **When the regular drain piping is connected with other indoor units, the connection point of each indoor unit must be higher than the regular piping. The pipe size of the regular drain pipe must be large enough according to the unit size and number of units.**
- (4) **After performing drain piping work and electrical wiring, check to ensure that water flows smoothly.**

### Checking with the Float Switch

- (a) Switch ON the power supply.
- (b) Pour 2 or 2.5 liters of water into the drain pan.
- (c) Check to ensure that the water flows smoothly or whether no water leakage occurs. When water cannot be found at the end of the drain piping, pour another 2 liters of water into the drain.

## 5.10.5 Electrical Wiring

### ! WARNING

- Turn OFF the main power switch to the indoor unit and the outdoor unit and wait for at least 10 minutes before electrical wiring work or a periodical check is performed.
- Check to ensure that the indoor and outdoor fans have stopped before electrical wiring or a periodical check.
- Protect the wires, drain pipe, electrical parts, etc. from rats or other small animals. Otherwise, rats may gnaw at unprotected parts and at the worst, a fire will break out.
- Avoid the contact of wires with the refrigerant piping, sheet metal edges and electrical components in unit. Otherwise, the wire may be damaged or a fire may break out.
- Use ELB (earth leakage breaker, action times  $\leq 0.1s$ ) with medium sensing rate. If not, it may result in electric shock or a fire.
- The wires must be firmly secured. External force applied to terminals may lead to a fire.
- It is forbidden to connect a plurality of power lines into one power terminal block. At the indoor unit side of air conditioner, power wiring can be extended through a power distribution box. Be sure to calculate the wiring capacity carefully, since excessively low wiring capacity may frequently cause a fire. Do not start the system before all check points are thoroughly checked.

### ! CAUTION

- Wrap the accessory packing around the wires, and plug the wiring connection hole with sealing material to protect the product from any condensate or insects.
- Tightly secure the wires with the cord clamp inside the indoor unit.
- Secure the cable of wired remote control using the cord clamp inside the electric box.
- Tighten screws to the following torques.

M4:	1.0~1.3	N·m
M5:	2.0~2.4	N·m
M6:	4.0~5.0	N·m
M8:	9.0~11.0	N·m
M10:	18.0~23.0	N·m



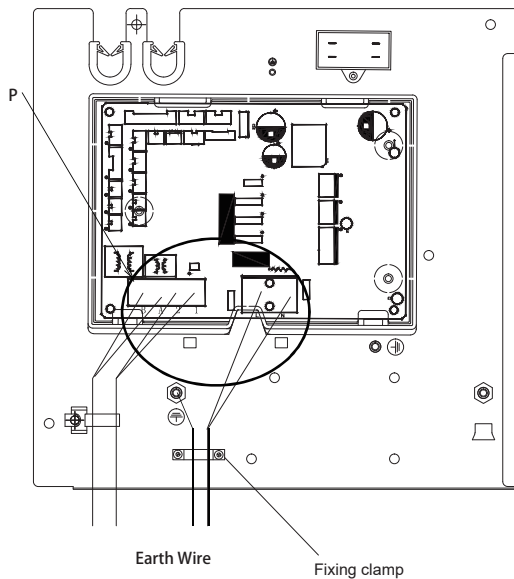
### 5.10.5.1 General Check

- (1) Make sure that the field-selected electrical components (main power switches, circuit breakers, wires, conduit connectors and wire terminals) have been properly selected according to the electrical data given in tables in section 5.6 and section 5.10.8.1. Make sure that the components comply with National Electrical Code (NEC).
- (2) Check to ensure that the power supply voltage is within +10% of the rated voltage.
- (3) Check the capacity of the electrical wires. In case of low power source capacity, the system does not start up due to the voltage drop.
- (4) Check to ensure that the ground wire is connected.
- (5) Power Source Main Switch  
Install a multi-pole main switch with a space of 3.5mm or more between each phase.

### 5.10.5.2 Electrical Wiring Connection

The electrical wiring connection for the indoor unit is shown in Fig. 5.14.

- (1) Connect the cable of an optional remote control switch or an optional extension cable to the connectors on the printed circuit board inside the electrical box through the connecting hole in the cabinet.
- (2) Wrap the power line (L and N) around the magnetic ring once and fix it with a wire tie as part of the unit. Connect the power supply and ground wires to terminals in the electrical box.
- (3) Connect the wires between the indoor unit and the outdoor unit to the terminals in the electrical box.
- (4) Tightly clamp the wires using the cord clamp inside the electrical box.



Details of P  
Terminal Block (TB) Wiring

## Ceiling ducted type (AVD)

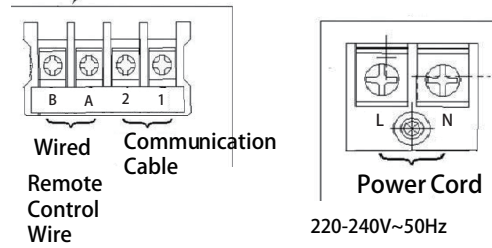


Fig.5.14 Electrical Wiring Connection

### 5.10.5.3 External Input and Output Functions

Input 1	CN3 1#~2# input	00: not available (default setting);
		01: room temp. controller (cooling);
		02: room temp. controller (heating);
		03: remote ON/OFF 1;
		04: remote ON/OFF 2 (running);
		05: remote ON/OFF 2 (stop);
		06: forced stoppage;
		07: remote switch between cool and heat;
Input 2	CN3 2#~3# input	00: not available (default setting);
		01: room temp. controller (cooling);
		02: room temp. controller (heating);
		03: remote ON/OFF 1;
		04: remote ON/OFF 2 (running);
		05: remote ON/OFF 2 (stop);
		06: forced stoppage;
		07: remote switch between cool and heat;
Output 1	CN7 1#~2# output	00: not available (default setting);
		01: running; 02: alarm;
Output 2	CN7 1#~3# output	03: cooling; 04: cooling Thermo ON;
		05: heating; 06: heating Thermo ON;
Output 3	CN8 1#~2# output	

### 5.10.5.4 Static pressure Electrical Wiring Connection

AVD-76/96HJFH	Static Pressure(Pa)	150(*)
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\*: Before Shipment

## Ceiling ducted type (AVD)

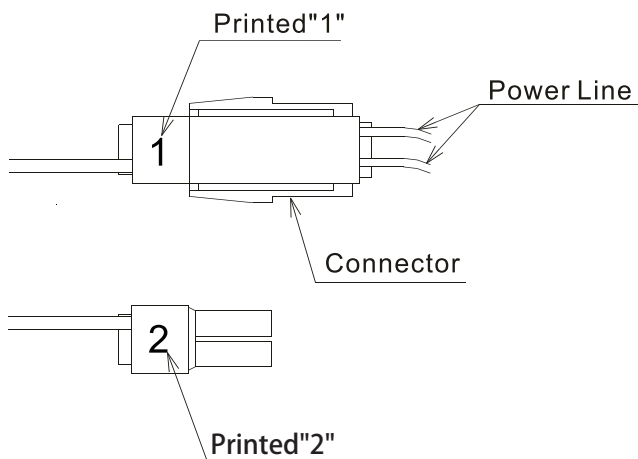
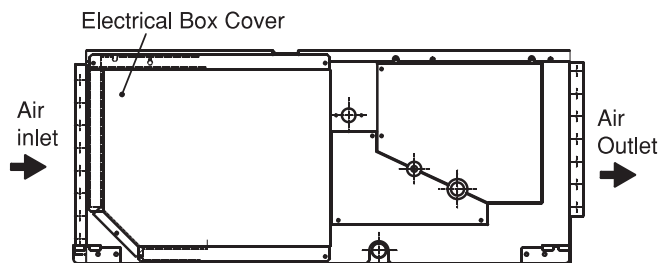


Fig.5.15 Static Pressure of Change

AVD-76~96\*



Remove the fixing screws for electrical box cover.

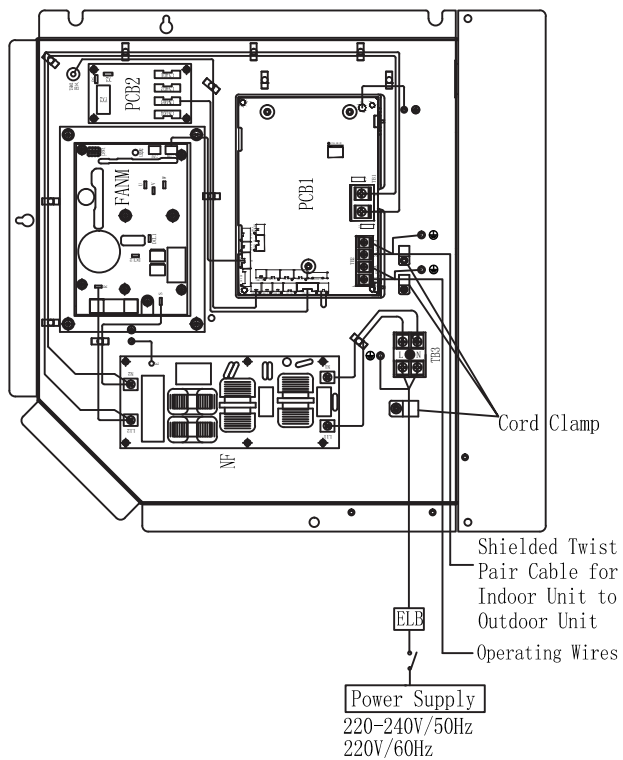


Fig. Electrical Wiring Connection

Test run should be performed according to "Installation & Maintenance Manual" of the outdoor unit.

## ! WARNING

- Do not operate the system until all the check points have been cleared.
  - (A) Check to ensure that the electrical resistance is more than 1 MΩ, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electric leakage is found and repaired.
  - (B) Check to ensure that the stop valves of the outdoor unit are fully opened, and then start the system.
  - (C) Check to ensure that the switch on the main power source has been ON for more than 12 hours, to warm the compressor oil by the crankcase heater.
- Pay attention to the following items while the system is running.
  - (A) Do not touch any of the parts by hand at the discharge gas side, since the compressor chamber and the pipes at the discharge side are heated above 90°C.
  - (B) DO NOT PUSH THE BUTTON OF THE MAGNETIC SWITCH(ES). It will cause a serious accident.

### 5.10.7 Common

#### 5.10.7.1 Field Minimum Wire Sizes for Power Source

## ! WARNING

- Use an ELB (Electric Leakage Breaker). If not, it will cause an electric shock or a fire.
- Run through the cables using conduit tube, and completely seal the end of conduit with sealing materials.

Field Minimum Wire Sizes for Power Source

## Ceiling ducted type (AVD)

### AVD-76~96HJFH

Model	Power Source	Max. Current	Power Source Cable Size *1	Transmitting Cable Size *1
76	220-240V~	5.57A	2.5mm <sup>2</sup>	0.75mm <sup>2</sup>
96	50/60Hz	7.92A		
Total Current (A)			Wire(mm <sup>2</sup> )	※1 DO NOT connect wires in series when the current exceeds 63A.
i ≤ 6			2.5	
6 < i ≤ 10			2.5	
10 < i ≤ 16			2.5	
16 < i ≤ 25			4	
25 < i ≤ 32			6	
32 < i ≤ 40			10	
40 < i ≤ 63			16	
63 < i			※1	

- (1) Field wiring shall be in conformity to local laws and regulations, and all wiring operations must be performed by qualified professionals.
- (2) Refer to relevant standards for above-noted power cord size.
- (3) Where power cord is connected through junction box, be sure to determine the total current and choose wires based on the table below.
- (4) As a minimum, the chosen power cord shall be compliant with requirements on neoprene sheathed wire #57 as stated in IEC 60245-1, while the power cord shall be made from copper conductor.
- (5) The wiring specifications for weak-current communication circuit shall not be lower than that for RVV(S)P shielded wires or equivalent, and the shielding layer shall be grounded.
- (6) A switch that can ensure all-pole disconnection shall be installed between power supply and air conditioning unit in such a manner that the contact spacing shall not be less than 3mm.
- (7) Once the power cord is damaged, the dealer or the professionals from designated maintenance department must be contacted in a timely manner for repair and replacement.
- (8) For the installation of power cord, the ground wire must be longer than the current-carrying conductor.