

**DRAIN PUMP UNIT (AIR CONDITIONER / OPTIONAL PARTS)****INSTALLATION MANUAL**

For authorized service personnel only.

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**1. SAFETY PRECAUTIONS**

- Be sure to read this Manual thoroughly before installation.
- The warnings and precautions indicated in this Manual contain important information pertaining to your safety. Be sure to observe them.

 <b>WARNING!</b>	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
When installing the Drain Pump, please thoroughly read this manual. Faulty installation will cause frosting, water leakage, electric shock, fire, and/or injury.	
Do not turn ON the power until all work has been completed. Turning ON the power before the work is completed can cause serious accidents such as electric shock or fire.	
Connect the indoor unit and drain pump unit with the air conditioner hose and cords available standards parts. This installation manual describes the correct connections using the installation set available from our standard parts.	
Installation work must be performed in accordance with national wiring standards by authorized personnel only.	

 <b>CAUTION!</b>	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.
The Drain Pump is used by assembling it with a ceiling type room air conditioner. The Drain Pump cannot be used alone.	

**UTR-DPB24T**

Handle the Drain Pump carefully. Dropping it onto the floor or subjecting it to strong shock will cause erroneous operation or accidents.

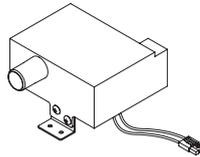
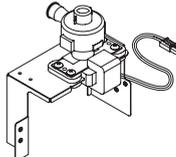
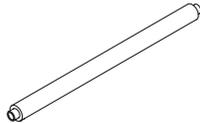
When installing the Drain Pump, please refer to the operating manual and installation manual supplied with the indoor unit.

When using the Drain Pump, the connection pipe outlet direction is up only.

Set up the drain hose for a maximum rise of 500 mm (19-3/4 in.) and give the drain pipe a down gradient of 1/25 to 1/100. (Fig. 7)

**2. MAIN UNIT AND ACCESSORIES**

The parts listed below are packed with the Drain Pump. Check them before starting installation work.  
Do not discard any accessories needed for installation until the installation work has been completed.

Name and Shape	Q'ty	Name and Shape	Q'ty
Drain pan assy 	1	Installation Manual 	1
		Drain hose A 	1
Drain pump assy 	1	Drain hose B 	1

English

Deutsch

Français

Español

Italiano

Ελληνικά

Português

Русский

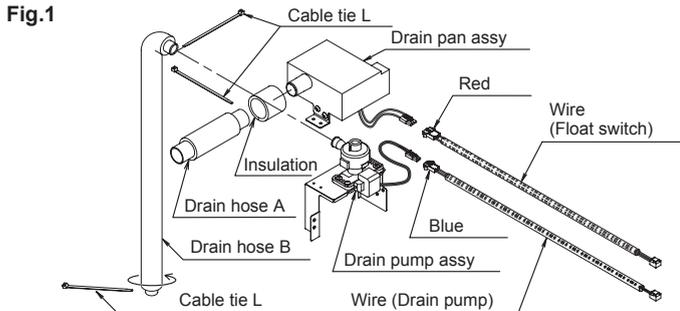
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Name and Shape	Q'ty	Name and Shape	Q'ty
Wire (Float switch) 	1	Wire (Drain pump) 	1
Cable Tie L 	4	Cable Tie LL 	2
Insulation 	1	Tapping screw 	8

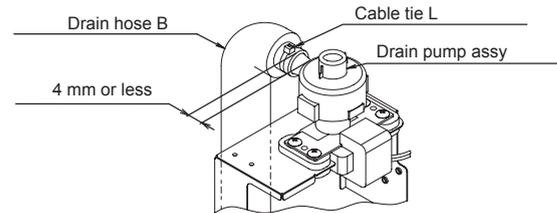
### 3. DRAIN UP MECHANISM ASSEMBLY

(1) Install drain hose B to the drain pump assy. (Fig. 1)



(2) Clamp drain hose B with cable tie L. (Fig. 1-1)

**Fig.1-1**

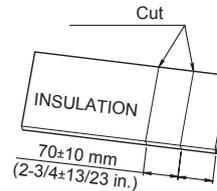


(3) Install drain hose A to the drain pan assy. (Fig. 1)

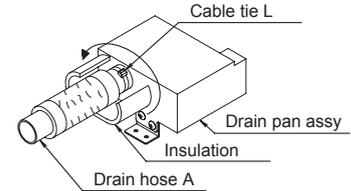
(4) Clamp drain hose A with cable tie L.

After cutting the insulation (Fig. 2), cover the connection parts with insulation. (Fig. 2-1) (Fig. 2-2)

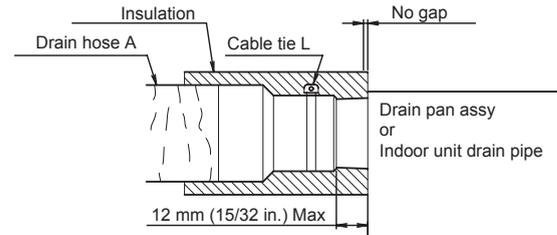
**Fig.2**



**Fig.2-1**



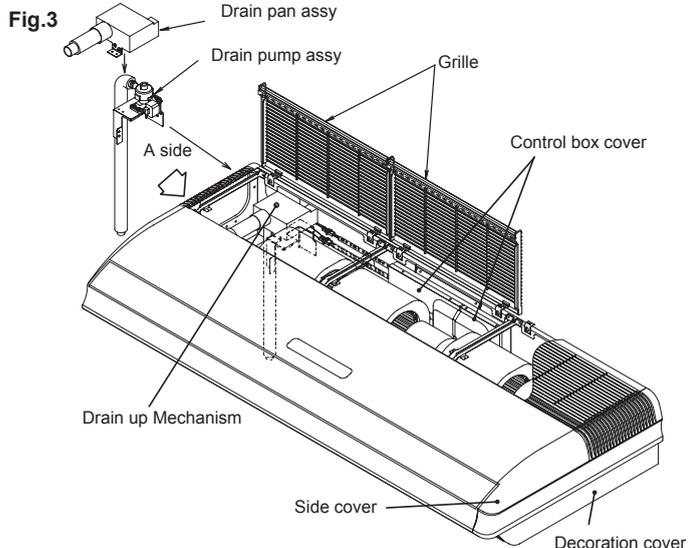
**Fig.2-2**



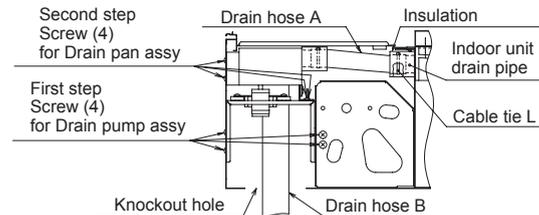
(5) Connect the wire (float switch) and wire (drain pump). (Fig. 1)

## 4. INSTALLATION TO INDOOR UNIT

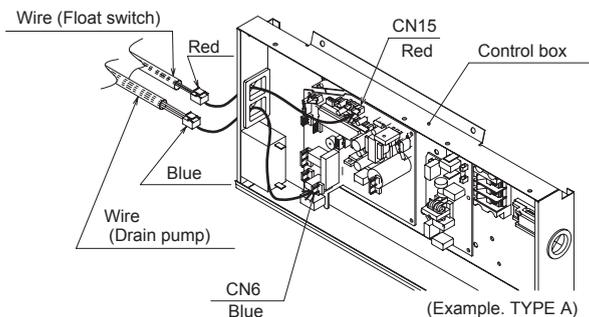
- (1) Cut a knockout hole for air conditioner top piping (Fig. 4). Remove the burrs created by cutting using a file, etc.
- (2) Remove the indoor unit air filter, grille, side cover, and decoration cover.
- (3) Install the Drain pump assy to the indoor unit. (Fig. 3)
- (4) Tighten four screws. (Fig. 4)
- (5) Install the Drain pan assy to the indoor unit. (Fig. 3)
- (6) Tighten four screws. (Fig. 4)
- (7) Insert drain hose A into the indoor unit drain pipe and clamp drain hose A with cable tie L (Fig. 4), and cover the connecting part with insulation. (Fig. 2-2)
- (8) After removing the control box cover, remove the control box body screws.
- (9) Insert the wire (Drain pump) and the wire (Float switch) into PCB (Fig. 5) Insert the lead wire firmly until the connector clicks lock up. The connector No. and the connector position are different in each PCB depending on PCB type. Refer to the table 1-2.



**Fig.4 A side view**



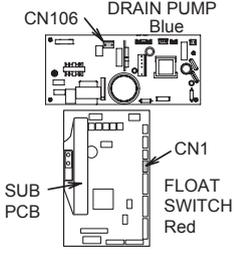
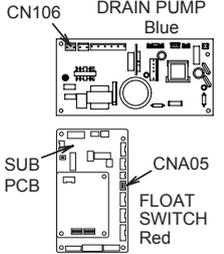
**Fig.5**



**Table.1**

	TYPE A	TYPE B	TYPE C
PCB	FLOAT SWITCH Red CN15 DRAIN PUMP Blue CN6	FLOAT SWITCH Red CN15 SUB PCB DRAIN PUMP Blue CN5	FLOAT SWITCH Red CN9 DRAIN PUMP Blue CN106
FLOAT SWITCH	CN15 (Red)	CN15 (Red)	CN9 (Red)
DRAIN PUMP	CN6 (Blue)	CN5 (Blue)	CN106 (Blue)

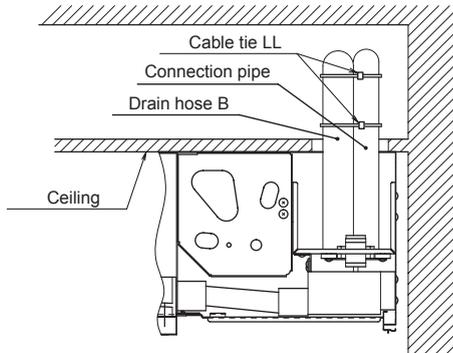
**Table.2**

	TYPE D	TYPE E
PCB		
FLOAT SWITCH	CN1 (Red)	CNA05 (Red)
DRAIN PUMP	CN106 (Blue)	CN106 (Blue)

## 5. AIR CONDITIONER INSTALLATION

- (1) Install the indoor unit with Drain Up Mechanism mounted to the ceiling.  
When installing the indoor unit, read the installation manual supplied with the indoor unit.
- (2) Set up drain hose B along the connection piping and clamp it with cable tie LL so that it does not loose.

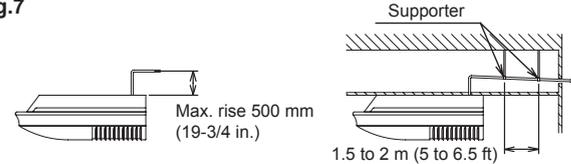
**Fig.6**



## 6. DRAIN PIPE INSTALLATION

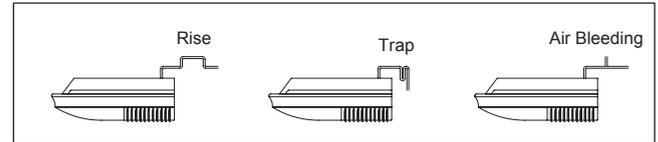
- (1) Connect a drain pipe to drain hose B, as required.  
Clamp the connecting part with cable tie L so there will be no water leakage and cover the connecting part with insulation. Use a drain pipe with a good insulating effect.
- (2) Set up the drain hose for a maximum rise 500 mm (19-3/4 in.) and give the drain pipe a downward gradient of 1/25 to 1/100. (Fig. 7)
- (3) Install the drain pipe so there is no rise, trap, or air bleed. (Fig. 8)

**Fig.7**



**Fig.8**

PROHIBITED



## 7. TEST RUN

- (1) After installation, run the air conditioner in the cooling mode and slowly pour 1.5 to 2.0 liters (3 to 4 pints) of water into the air conditioner outlet section indoor unit drain pan and check that drain is normal and there is no water leaking from the connections.
- (2) To check operation of the safety devices, lift the float switch with a screwdriver, or similar device, and check that the indoor unit stops.