## **Drain Pump Unit For Duct Type INSTALLATION INSTRUCTION** SHEET

## (PART NO. 9378754027)

#### For authorized service personnel only.

This mark indicates procedures which, if improperly performed, are most likely to result in the death of or serious injury to the user or service personnel.
This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

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Never touch electrical components immediately after the power supply has been turned off. Electrical shock may occur. After turning off the power, always wait 5 minutes or more before touching electrical components.

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① For the air conditioner to operate satisfactorily, install as outlined in this installation instruction sheet.

- (2) Connect the indoor unit and drain pump unit with the air conditioner hose and cords available standards parts. This installation instruction sheet describes the correct connections using the installation set available from our standard parts.
- ③ Installation work must be performed in accordance with national wiring standards by authorized personnel only.
- (4) Do not turn on the power until all installation work is complete.

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① Install a drain pump unit to each indoor unit. If one drain pump unit is connected to multiple indoor units, leakage may occur.

(2) Do not exert excess pressure, for example when holding the supplied drain hose. Otherwise the drain hose may come off and cause injuries.

③ Do not turn off the power supply for 5 minutes after the operation has been stopped. Otherwise the remaining drain water may not be drained and leakage may occur.

④ If leakage occurs from the interior of the indoor unit or drain pump unit during operation of the air- conditioner, stop the operation immediately. The drain outlet may be jammed and the safety circuit may not be working properly. Please contact your dealer.

### SELECTING THE MOUNTING POSITION

#### A WARNING

Install at place that can withstand the weight of the drain pump unit and install positively so that the units will not topple or fall.

- Do not install where there is the danger of combustible gas leakage.
- . Do not install the unit near heat source of heat, steam, or flammable gas.
- If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.

#### Take precautions to prevent the unit from falling.

Decide the mouting position with the custmer as follows:

- · Install the unit level on a strong ceiling which is not subject to vibration.
- · Do not install the unit where it will be exposed to direct sunlight.
- · Leave the space required to service the unit.
- Providing as much space as possible between the unit and ceiling will make work much easier.
- Install the unit where the drain pipe can be easily installed.
- · Set a maintenance hole near the drain pump unit.

#### HANGING BOLT INSTARATION DIAGRAM

- · Install four bolts for the indoor unit.
- Install one additional bolt for the drain pump unit. \* Install the bolts so that the weight of the drain pump unit is supported, and adjust the length until the ceiling surface.







#### **STANDARD PARTS**

- · The following installation parts are furnished. Use them as required.
- \* The parts numbers are the same as those indicated in the diagrams.



# **INSTALLATION PROCEDURES** 1. Installing drain pump unit (1) Use the tapping screw to install the hanger and bracket to the drain pump unit.

- exposed part of the bracket are covered.

(4) Paste the insulation so that the nut and the



2. Leveling • Install the indoor unit and drain pump unit within the acceptable gradient range. Other-

## 2 **DRAINAGE CONSTRUCTION** 1. Installing hose • The maximum vertical installation length is 1m. • The hose can be installed when it is bent. \* Set the bend radius of the hose to be 60 mm or more. Bend radius is 60mm or more Install the hose with downward gradient of 1/50



#### **Example of Wrong Construction**





2. Operation outside the control box

(1) Remove two screws of the indoor unit and

(2) Bundle the two tubes (wires) of the drain pump unit

with a wire clamp so that the tubes do not sag.

Thin tube

secure the wire clamp.

. When the insulation of the hose has come off during operation, insert into the insulation of the drain pump unit.

Insert here (hose)

Attach the insulation (hose) on the hose root.

#### 2. Installing pipe

- Install the drain hose with downward gradient (1/50 to 1/100) and so there are no rises or traps in the pipe.
- Use general hard polyvinyl chloride pipe (VP25) [outside diameter 32 mm] and connect it with adhesive (polyvinyl chloride) so that there is no leakage.
- When the pipe is long, Install supporters.
- Do not perfrom air bleeding. Always heat insulate the indoor side of the drain



Observe the following procedures to construct centralized drain pipe fittings.

VP30 or more [O.D 38mm or more]



<Water leakage areas>

pump unit)



\* Tapping screws can be fixed from any position at side/lower side.

CN9

CN9

(Red)

CN15

(Red)

(2) Wind the adhesive side of insulation A securely. a: Both ends of the joint hose (Connection between indoor unit and drain Adhesive side b: Socket part of the drain pump unit (Connection with locally arranged pipes)

on the model)

## Maintenance during **Off Season**

- Clean the drain pump unit after every air conditioning season.
- Remove the screw and open the bottom lid to



PART NO. 9378754027

Bottom lid

Drain pan

Check the end

of the insulation

Check Column