

PAN12



INSTALLATION OPERATION MAINTENANCE



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Condensate Removal Pumps From Hartell

INTRODUCTION

HARTELL condensate pumps are designed to collect and automatically remove the water produced from an air conditioner evaporative coil and/or a gas-condensing furnace. This pump has been carefully engineered to provide long, trouble free service and is of the highest quality workmanship and materials.

These pumps have been thoroughly inspected and tested, then carefully packaged to insure safe delivery and operation. When you receive your pump, examine it carefully to determine that there are no damaged or broken parts. If damage is detected, notify the firm from where the pump was purchased. They will assist with a repair or replacement.

See the precautions listed below before continuing.

CAUTION: READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION

- Pump should only be used with liquids compatible with pump component materials. Do not use to pump flammable or explosive fluids. Do not use in explosive atmospheres.
- This pump is not submersible. Do not allow the water level to exceed the level indicated on the pump.
- The pump is designed for grounded installation. To reduce the risk of electrical shock be certain that it is connected to a properly grounded, grounding receptacle, ground fault interruption recommended.
- In any installation where property damage and/or personal injury might result from an inoperative or leaking pump due to power outages, discharge line blockage, or any other reason, a back up system and/or alarm should be used. J-100 Auxiliary Safety Switch is recommended.
- Do not handle pump with wet hands or when standing on a wet or damp surface, or in water.
- Shut off the electrical power at the fuse box before making any connections. All wiring must comply with local codes.

ONE YEAR LIMITED WARRANTY

HARTELL PAN12 series condensate pumps are guaranteed to be free from defects in workmanship or materials and to function satisfactorily, when properly installed, for a period of ONE (1) years from date of installation. HARTELL will replace, without charge, any HARTELL product found to be defective upon examination at our factory if returned within the guarantee period, transportation charges prepaid.

This guarantee does not apply if the product has been misapplied or mechanically damaged, HARTELL assumes no liability for resultant damages of any kind arising out of the use of its products.

INSTALLATION

Carefully unpack the pump and select a location. The pump must be level and the inlet must be below the lowest drain, either coil or furnace. The PAN pump is designed to remove condensate directly from air conditioning coil drip pans, as long as, the temperature does not exceed 110° Fahrenheit. It should be placed in the lowest area of the drip pan to maximize fluid removal. If placed in an area where the fluid level can exceed two (2) inches in depth, the installation of a J-100 Safety Switch is strongly recommended. If drip pan installation is not desired, the pump may be mounted outside the unit in a Pan Kit-210.

PIPING—Connect 1/8" ID tubing to the barbed check valve. Extend this piping or tubing straight up as high as necessary. (Do not extend this tubing past the head/GPH of the pump installed). Do not kink the tubing, as this will block the flow. From this high point, slope the discharge tubing downward to a point above the drain, then turn down and extend to a point below or level with the bottom of the condensate pump. If it is not possible to slope the discharge tubing downwards, make an inverted "U" trap directly above the pump at the highest point. (Figure 1)

ELECTRICAL CONNECTIONS—review precautions on previous page

LINE VOLTAGE—Connect power cord to the proper voltage as indicated on the motor nameplate. Connect only to a source of constant power, not an intermittent source such as a fan or limit control circuit.

OPERATION

After proper installation, the operation of the HARTELL condensate pump is automatic. Water is collected in the pan and pumped out when the float raises to a pre-set point. As the water level goes down the float turns off the motor at another pre-set point. Under most circumstances the pump requires little maintenance for efficient operation. If a problem occurs, please refer to the maintenance instructions below.

MAINTENANCE

In normal applications, this pump requires no scheduled maintenance for efficient operation. If a problem develops, the following guidelines can help to return the pump to service.

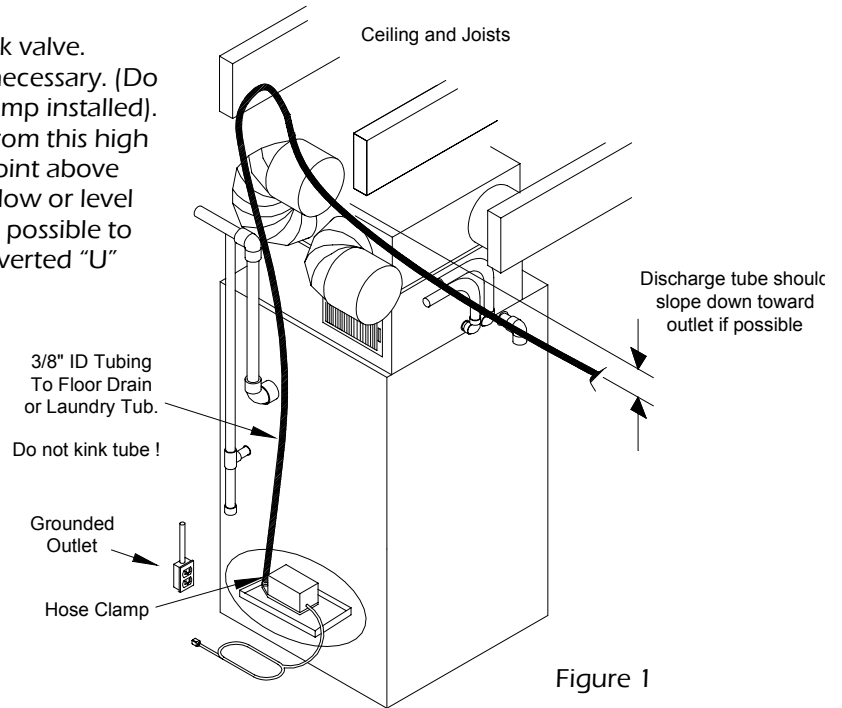
PUMP DOES NOT RUN

- Check to see that the power to the system (air conditioner and/or furnace) is on to allow production of condensate.
- Check that the pump is plugged in and the circuit is active (i.e. fuse or breaker not blown).
- Check the level of water in the pan/reservoir; the level must be over 1" from the bottom of the pan to activate the switch.
- If there is a proper amount of water in the pan/reservoir, the float may be stuck due to dirt or algae formation. (Flush the pan/reservoir with warm water and a mild soap or detergent). See note below.

PUMP MOTOR RUNS WITH NO DISCHARGE

- Inspect the discharge tubing for its full length to make sure it is clear; make sure the tubing end is not plugged.
- Make sure the check valve is not clogged. (If clogged, UNPLUG THE PUMP, remove the fitting and clean with mild soap or detergent). See note below. The check valve is the white barbed fitting attached to the discharge tubing.
- The discharge port of the impeller chamber may be clogged due to an accumulation of debris. (Flush with warm soapy water)

NOTE: In case of extreme algae formation, UNPLUG THE PUMP, and fill the pan/reservoir with a commercially available algaecide. Follow directions for destroying the algae. After the proper waiting period DUMP the algaecide out of the pan/reservoir. Rinse with water, repeat if necessary. Be careful not to clog the check valve when starting the pump after this thorough cleaning.



Keep these sheets with the pump. They may be valuable if service is needed under the terms of the warranty.

Model # _____ Date of installation: _____
Installer: _____ Date Code: _____
Dealer: _____