



***PROPP-PUMP CONDENSATE NEUTRALIZER PUMP  
INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS***

***NOTE - Check with your local water authority for regulations regarding discharge of treated condensate to the drain or sewer system.***

**WARNING**

1. Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, alcohol, etc.
2. Do not use in explosive atmospheres.
3. Do not handle pump with wet hands, when standing on a damp surface, or in water.
4. To reduce the risk of electrical shock connect pump to a properly grounded grounding type receptacle.
5. Connect the pump only to the power supply specified on the nameplate of the pump.
6. In any installations where property damage and/or personal injury might result from an inoperative pump, a backup system and/or alarm should be used.
7. Do not twist or kink the drain hose.
8. Before doing any maintenance or repairs on the pump, disconnect the pump from the power supply to avoid electrical shock.
9. Keep children away from pump.
10. This is a non-submersible pump.
11. Every installation or after-sales service should be done by a qualified service technician.
12. If the pump runs for more than 5 minutes before shutting off check the trouble shooting chart on page 7 for a solution.
13. "Risk of damage to appliance". The neutralization tank inlet must be at a lower elevation than the condensate drain from appliance.
14. Do not allow exhaust flue gases to vent through the neutralization tank. All condensate drains leading into the neutralizer must have a trap to prevent flue gas leakage. Flue gas leakage can cause injury or death from carbon monoxide.
15. Connection to the appliance and neutralization tank must be installed to ensure that no condensate backflow into the appliance can occur.



## Installation Instructions

- (1) Select a mounting location near the appliance. The pump must be mounted level and horizontally. Run flexible corrosion resistant tubing or pipe from condensing appliance drain into the inlet of the PROPP-PUMP. Be sure the inlet piping is sloped downward to allow gravity flow. If using the 3/4" side inlet, only use Teflon tape to make the connection to the tank.
- (2) Connect the provided 3/8" I.D. outlet tubing with the check valve. Extend outlet tubing from the PROPP-PUMP straight up as high as necessary, but not higher than the maximum head/flow rate (see pump performance on page 5) of the pump. Be sure that the outlet piping is not twisted or clogged.
- (3) Do not route the condensate line through any area that is exposed to freezing temperatures. If traffic poses a risk, install some protection to prevent movement and/or damage.
- (4) Check that the power source voltage matches with the pump's requirement. Connect the pump's power cord to a constant source of power (not a fan or other device that runs intermittently). Do not connect or link the appliance's power cable directly to the pump's power cable. Use each of their power plugs respectively. If the pump's power cable should be extended, use a cable of same specification. All wiring should be done by qualified service technician.
- (5) Pour the neutralization media evenly into the first three chambers of the PROPP-PUMP. Do not pour any media into the pump out chamber. See figure 1 below:



**Figure 1:** Evenly fill first three chambers of the PROPP-PUMP with Neutralization Media



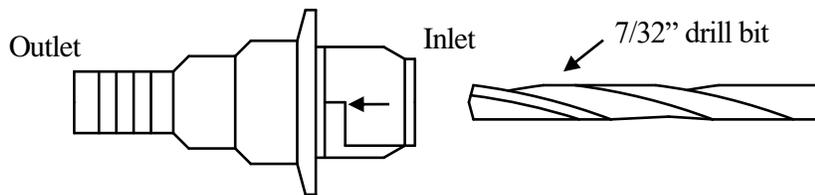
**Figure 2:** AC (Air Conditioning) inlet located beside check valve on top of PROPP-PUMP

- (6) AC (Air Conditioning) condensate may be piped into the AC inlet labelled and located near the check valve on top of the PROPP-PUMP. See figure 2 above.
- (7) Ensure that the condensate will flow freely from the appliance condensate drain into the PROPP-PUMP, and that the pump will remove the condensate to the drain.



### Permanently Removing the Check Valve

In the event that you find it necessary to remove the check valve permanently (outlet discharge tubing passes through an area where freezing may occur), use a 7/32" drill bit on the inlet side of the check valve to remove the ball and spring. Only insert drill bit half way through check valve. See figure 3 below.



**Figure 3:** To remove ball and spring from bottom of check valve use 7/32" drill bit

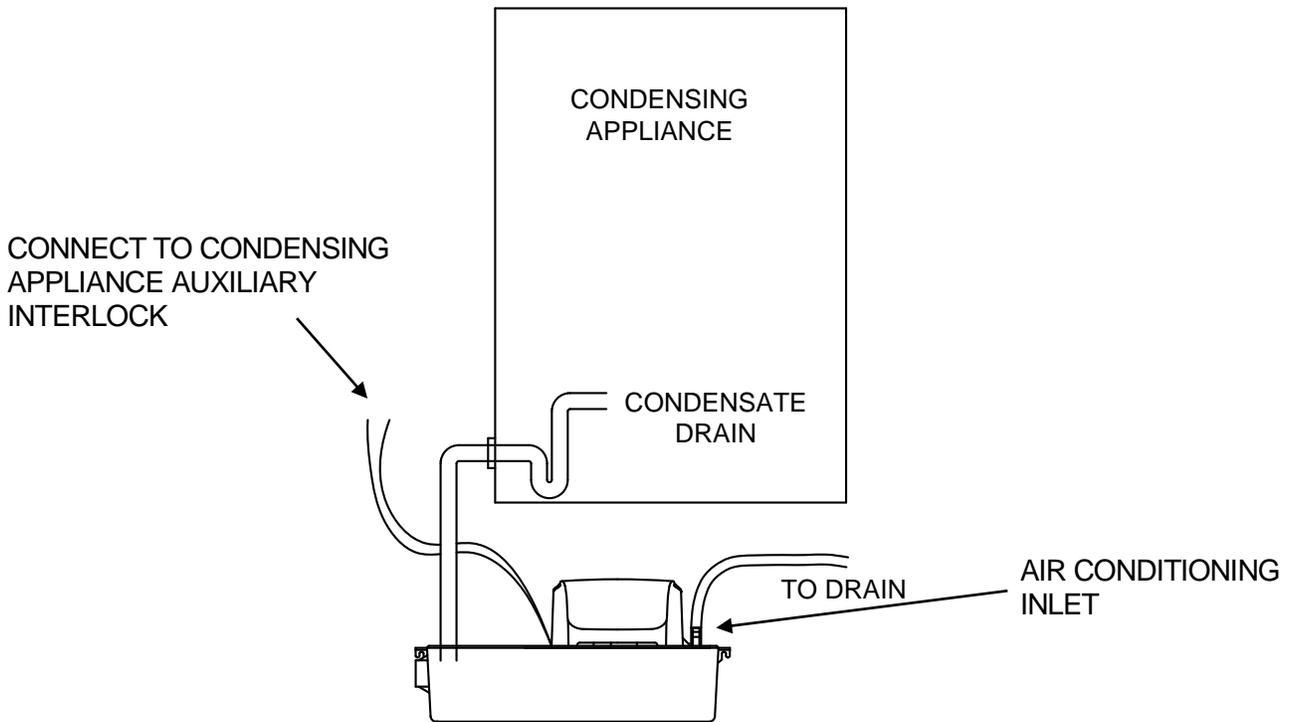
*NOTE - See maintenance section for check valve removal from pump (page 6, item 2).*



### Installation Instructions for the PROPP-PUMP with the Appliance Interlock

OPTIONAL: If your condensing appliance has an auxiliary interlock for normally closed contacts, you may connect the two white lead wires from the PROPP-PUMP to the interlock terminals on your appliance. The contacts will open if the water level rises too high in the PROPP-PUMP which will prevent an overflow if the pump is not working.

The high level float switch in the PROPP-PUMP is factory wired to be OPEN on HIGH LEVEL. Disconnect the power before starting. The electrical ratings for the high level switch on the PROPP-PUMP are 125 or 250VAC 6A, 125V DC 0.4A, 250V DC 0.3A



**Figure 5:** Installation diagram of the PROPP-PUMP



## Operation

Plug the PROPP-PUMP into the wall outlet. To test the safety switch unplug the pump, and pour water into the PROPP-PUMP tank until the safety switch contacts open. Plug the pump in and the pump should turn on. Ensure there are no leaks or kinks in the piping.

During operation the appliance condensate will flow through the neutralizing media, raising the pH of the condensate to a level that will help prevent corrosion of the domestic drain and the public sewer system. The pump will then remove the condensate to desired location (i.e. drain). See figure 5 above.

## Pump Performance

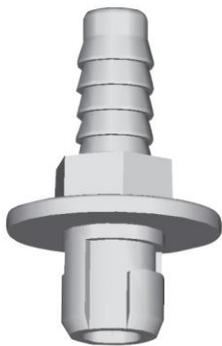
Maximum lift 6m (20 ft.)

Head, m (ft.)	Flow Rate, l/hr (U.S. GPH)
0	282 (75)
2 (7)	249 (66)
4 (13)	234 (62)
6 (20)	123 (32)



## Maintenance

1. Before attempting to service or disassemble any component, make sure that the unit is disconnected from the power source.
2. Remove the drain hose from the inlet hole. Uninstall the check valve from the main plate (see below). Disassemble the outlet piping from the check valve. Clean the check valve and be sure that the ball inside of check valve moves freely.



To remove → Turn the check valve 90° counter-clockwise and lift the check valve out of the hole

For Installation → Put the check valve into the hole and turn 90° clockwise

3. Remove the cover and reservoir from the main plate.
4. Be sure the floats move freely. Clean as necessary.
5. Remove neutralization media and clean the reservoir with warm water and mild soap. Replace media in tank.
6. Check the inlet and outlet piping. Clean as necessary. Be sure there are no kinks in the line that would inhibit flow.
7. After servicing, assemble the unit in the reverse order.
8. In case of a long-term break, remove water from the outlet piping and reservoir.
9. Monitor the cleanliness, level of the neutralization media, and pH level in the tank monthly. Remove any debris found to prevent blockages. The pH can be checked after the condensate has exited the tank or by removing the lid and taking a sample from the pump out chamber. Use a suitable pH test strip paper or an electronic pH meter for precise measurement. The neutralizing media should be replaced when the pH level drops below the minimum level of the local water authority, or after one year, whichever comes first. For replacement media contact your local PurePro distributor.



**Troubleshooting Chart**

<b>Problem</b>	<b>Resolution</b>
The unit does not run.	a) Check the power supply.  b) Check the appliance to see if the condensate is actually being produced.  c) Make sure the inlet piping is not clogged. If it is clogged, the appliance may eventually be damaged.
The unit makes loud noises when running.	a) Make sure the inside of reservoir is clean.  b) Make sure there is no siphoning action.
The unit runs but does not pump the liquid out.	a) Check that the highest point of the outlet piping does not exceed the maximum delivery head of the pump.  b) Make sure the outlet piping is not clogged.  c) Inspect the check valve following the maintenance instructions.
Liquid drains back into the pump from the outlet piping.	a) The check valve may have debris in it. Clean the check valve following the maintenance instructions.
Liquid leaks from around the check valve.	a) Make sure the outlet piping is tightly connected with the check valve.  b) Make sure the check valve is fastened properly.  c) If the O-ring under the check valve is damaged, replace with a new one.

**Limited Warranty**

The PROPP-PUMP is warranted against defects in materials and workmanship for two years.