



***CONDENSATE TRANSFER AND NEUTRALIZATION PACKAGE: NT70-
AP43
INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS***

Installation Instructions

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

⚠ WARNING

- **“Risk of damage to appliance”. The transfer tank inlet must be at a lower elevation than the condensate drain from appliance.**
- **Do not allow exhaust flue gases to vent through the neutralization kit. All condensate drains must have a trap to prevent flue gas leakage. Flue gas leakage can cause injury or death from carbon monoxide.**
- **Connection to the appliance and neutralization kit must be installed to ensure that no condensate backflow into the appliance can occur.**
- **This product can expose you to Silica, crystalline (airborne particles of respirable size) which is known in the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov**

Set the condensate pump and neutralization tank on a secure and level base. Connect appliance condensate drain to the condensate tank inlet using corrosion resistant piping. 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. Ensure that no air pockets will remain or form in the piping and that the condensate will flow freely from the appliance condensate drain into the tank. Install the provided check valve at the outlet of the pump to prevent backflow into the tank.

INSTALLATION INSTRUCTIONS FOR THE RIA10-1-SAA CONTROL PANEL FOR USE WITH NT70-AP43 CONDENSATE NEUTRALIZER

The high level alarm switch in the AP43-HTS can provide an OPEN or CLOSED contact on HIGH LEVEL (factory set to N.C.). See figures 2 and 3 below. This is compatible with the alarm circuit in the RIA10-1-SAA panel. Connect terminals 1 and 2 from terminal block labelled “float switch” in the panel to the high level contacts in the AP43-HTS condensate pump. See figure 1 below.

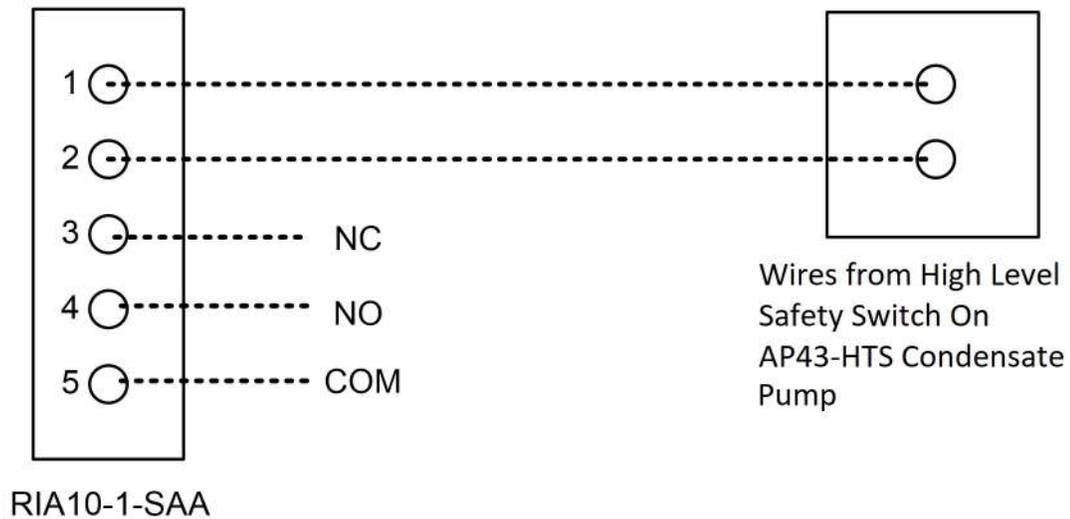


Figure 1: Wiring diagram showing how to connect the high level float on the AP43-HTS to the RIA10-1-SAA alarm panel.

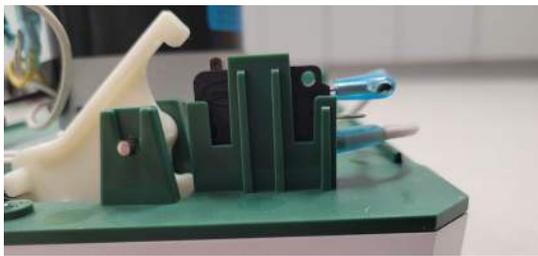


Figure 2 High Level Safety Switch on AP43-HTS in N.C. position



Figure 3 High Level Safety Switch on AP43-HTS in N.O. position

To disable the audible alarm in the RIA10-1-SAA panel, remove the jumper from the control board of the RIA10-1-SAA.



Operation

Plug the condensate pump into an approved electrical outlet.

Remove the lid and pour water into the condensate tank until the float triggers the pump to turn on. Ensure there are no leaks or kinks in the piping. Use suitable heat and corrosion resistant piping/tubing. Replace tank lid.

During operation, condensate will flow into the AP43-HTS condensate tank and then be pumped out to the NT70 condensate neutralization tank. The condensate will then 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 condensate will then gravity flow to the drain.

Maintenance

Monitor the cleanliness, level of the neutralization media, and pH level in the tank weekly. Remove any debris found to prevent blockages. backflush the NT70 unit periodically. This can be done by connecting a water source to provided drain valve on the bottom of each NT70. This will disrupt the precipitates and debris that have settled in the tank and will allow it to drain away. How often a backflush is required will depend on how quickly the precipitates build up and start to reduce the media's effectiveness and/or restrict flow.

The pH can be checked after the condensate has exited the NT70 tank. 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 LipHter™ media contact your local Axiom distributor or visit www.axiomind.com for more information. Five NM15 LipHter Neutralization Media kits are required to re-fill the tank. Ensure that the outlet of the NT70 is unobstructed.

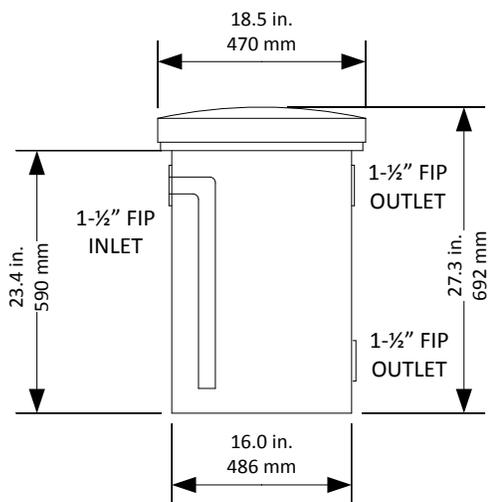


Figure 4: NT70

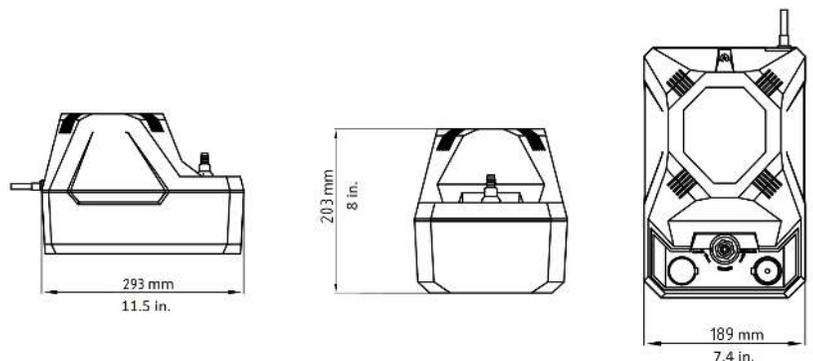


Figure 5: AP43-HTS Condensate Pump

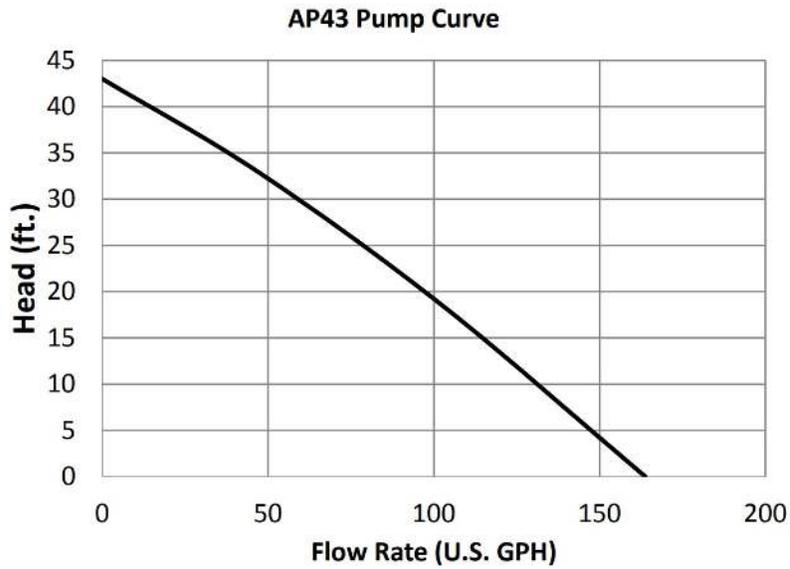


Figure 6: AP43-HTS Pump Curve

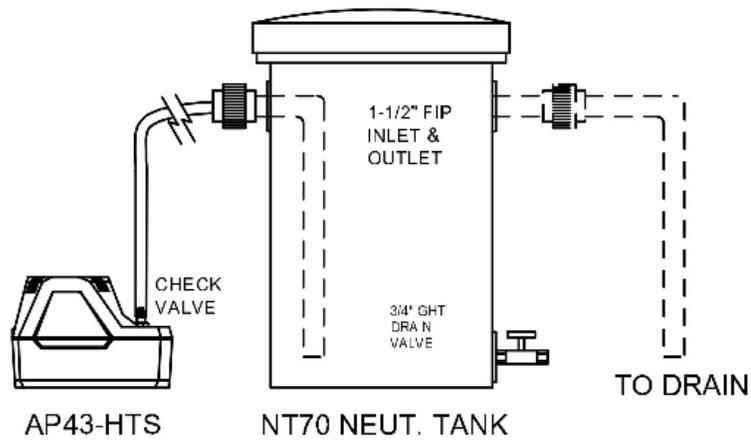


Figure 7: Installation diagram of the NT70-AP43. Note: Maximum of one NT70 installed per AP43-HTS condensate pump

Limited Warranty

The NT70-AP43 is warranted against defects in materials and workmanship for one year.