

SAFETY SWITCH

CONDENSATE OVERFLOW SWITCHES

FS1

- ✓ WATER DAMAGE PREVENTION
- ✓ ACCESSIBLE INLINE CLEANOUT
- ✓ ADJUSTABLE FLOAT LEVEL
- ✓ MAGNETIC REED SWITCH

INSTALLATION INSTRUCTIONS

1. Tape/glue a ¼-inch stub onto the drain pan outlet adapter.
2. Firmly press the switch/cap assembly into the top square opening of the Tee until all four latches engage. If greater sensitivity is desired, the switch can be unscrewed slightly from the cap.
3. Insert and glue a 1-inch x ¼-inch bushing into the remaining 1-inch outlet of the Tee.
4. Connecting the Tee: Tape/glue the bushed inlet of the Tee onto the ¼-inch stub from the pan outlet. The Tee can be angled up to 45° relative to the pan outlet.
5. a) Installation on Auxiliary Outlets: Firmly seat the plug into the ¼-inch outlet of the Tee, ensuring a watertight fit. Note: Do not glue. Pipe tape may be used to secure the seal if needed.
b) Inline Installation: For inline setups, glue the ¼-inch outlet of the Tee onto the drain line.
6. Wire the switch according to the instructions provided in the Wiring section below.
7. With the unit running, lift the float to test the switch. If wired correctly, the unit should shut down immediately.
8. Inspect all drain and fitting connections for any plumbing leaks.
9. Plug the drain downstream from the installation point and run the unit to fill the pan. The float should rise and trigger the unit to stop before the pan overflows. If the pan overflows, lower the float by either adjusting the position of the entire assembly lower, or loosening the jamb nut on the threaded stem and readjusting the float height as needed. Re-test to confirm proper sensitivity, then retighten the jamb nut.

10. ffix the warning sticker to the air handler or condenser unit.



Figure 1: Horizontal (plugged) installation on auxiliary outlet

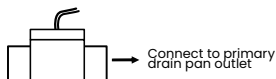


Figure 2: Horizontal (inline) installation.

WIRING – REFER TO FIGURE 3

Power Disconnection:

Before any electrical work starts, disconnect power to the unit at the main panel.

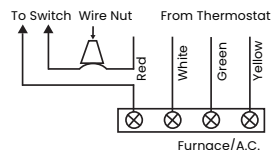


Figure 3: Wiring

Circuit Protection:

- If an inline fuse is not already installed, add one to protect the 24-volt circuit.
- Include a time delay to prevent rapid cycling of the equipment.

Thermostat Cable Identification:

Locate the 24-volt thermostat cable entering the air handler.

Switch Installation:

- Disconnect or cut the red wire.
- Connect the red wire to the switch lead using a wire nut, then attach the other switch lead to the appropriate air handler terminal.

Note: Installing the switch in the red circuit will shut down the entire unit. Placing it in the yellow circuit allows the fan to continue running (helpful for inhibiting mold during extended absences).

Switch Testing:

With the unit running, test the switch by lifting the float. The unit should shut off immediately if wired correctly.

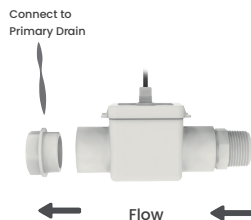
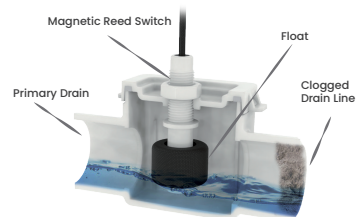
IMPORTANT WARNINGS & CAUTIONS

WARNING: This device must be installed strictly according to the manufacturer's instructions and all applicable local plumbing, drainage, and electrical codes.

WARNING: Disconnect the power supply before installing to avoid electrical shock or equipment damage. Use only in a Class 2 (thermostat) circuit not exceeding 24 volts and 1.25 amps to prevent damage or fire hazards.

WARNING: The device will not detect clogs occurring upstream from the installation point. If an inline fuse and time delay are not already present, install them before using this product to protect the 24-volt circuit and avoid rapid cycling.

CAUTION: When installing in a plugged configuration on auxiliary drain outlets, ensure that the PVC plug is fully closed and watertight. This product is intended exclusively for use with water; it must not be used with flammable liquids or vapors. Always refer to the relevant HVAC equipment operation manual before installation.



Technical Data:

- Power Supply: 24V AC
- Current: 1.25 Amp
- General Purpose, Use in Class 2 (Thermostat) Circuit Only



www.refcenter.us
info@refcenter.cn