

INSTALLATION INSTRUCTIONS

NOTICE: FAILURE TO READ AND COMPLY WITH ALL WARNINGS, CAUTIONS AND INSTRUCTIONS PRIOR TO STARTING INSTALLATION MAY CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE AND VOID WARRANTEE.

⚠ WARNING This device must be installed strictly in accordance with manufacturer's instructions to ensure proper operation and in accordance with all applicable local plumbing, drainage and electrical codes.

⚠ WARNING Electric shock hazard – Disconnect power supply before installing this product to avoid electrical shock and/or equipment damage. Use in Class 2 (Thermostat) circuit only.

⚠ WARNING This product is intended for use in water only. Not for use in the presence of flammable liquids or vapors.

CAUTION: Refer to the appropriate air conditioning equipment Operating Manual prior to installing this product.

CAUTION: This device will not detect clogs occurring upstream from installation point.

CAUTION: When installing this device in plugged configuration on auxiliary drain pan outlets it is essential that plug is water sealed.

CAUTION: If not present, it is recommended that a fuse be installed to protect the 24-volt circuit prior to installing this product.

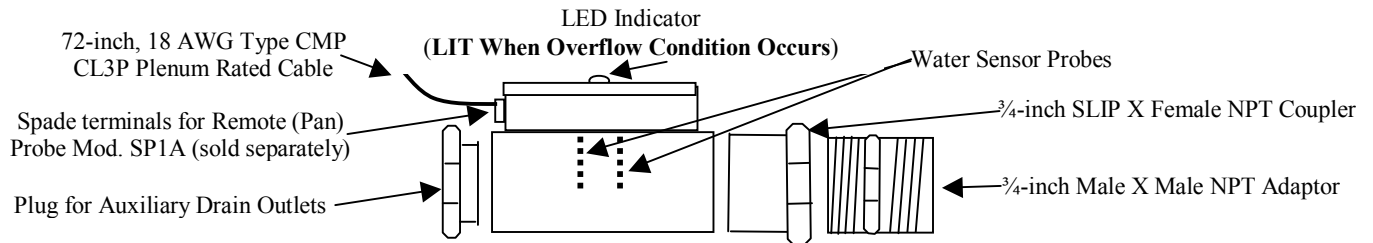


Figure 1: Safe-T-Probe® Assembly

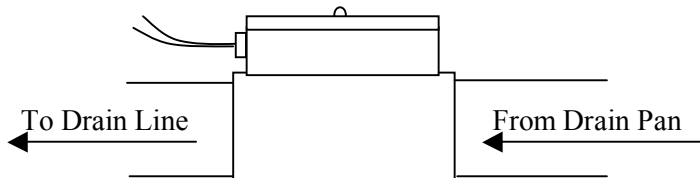


Figure 2: Primary Drain (Inline) Installation

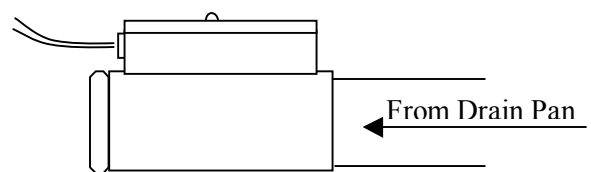


Figure 3: Auxiliary Drain (Plugged) Installation

INLINE INSTALLATION: (See Figure 2).

1. Disconnect power to equipment at the main panel. Ensure that power to the 24-volt control circuit is off.
2. Cut primary drain line as close to drain pan outlet as possible or thread 3/4" male adaptor onto drain pan outlet using thread sealant. Thread female coupler over male adaptor ensuring it is watertight. For male pan outlets, omit male adaptor and thread female coupler directly on pan outlet ensuring it is watertight.
3. Connect cable from optional SP1A remote pan sensor if applicable.
4. Apply primer and glue to 3/4" SLIP adaptor from pan outlet and position switch assembly so that metal probes inside fitting point straight downward into fitting and so that LED light is UP. Ensure that glue does not contact free spinning coupler or metal sensor probes inside fitting. **DO NOT POSITION SWITCH ASSEMBLY VERTICALLY DOWN FROM OUTLET – SWITCH ASSEMBLY MUST BE WITHIN 20° OF HORIZONTAL.** If elbow fitting is used, ensure that switch is level with or sloped DOWN from pan outlet.
5. Apply primer and glue to 3/4-inch drain line and insert into remaining outlet of switch fitting.
6. Wire switch as per instructions under Wiring, below.
7. Test all drain and fitting connections for plumbing leaks.
8. Test switch sensitivity: Plug drain downstream from installation point and run unit to fill pan. Ensure LED lights and equipment unit stops before pan overflows. Position switch lower if unit does not stop before pan overflows.
9. Clear drain and reset thermostat by switching it to OFF position and then back to the ON position.
10. Affix warning sticker to air handler or condenser unit.

NOTE: SYSTEM WILL NOT START AFTER SWITCH ACTIVATES UNTIL THERMOSTAT IS RESET

AUXILLIARY OUTLET INSTALLATION: (See Figure 3).

1. Disconnect power to equipment at the main panel. Ensure that power to the 24-volt control circuit is off.
2. Thread 3/4" male adaptor into drain pan outlet using thread sealant. Thread female coupler over male adaptor ensuring it is watertight. For male pan outlets, omit male adaptor and thread female adaptor directly on pan outlet ensuring it is watertight. If elbow fitting is used, ensure switch assembly is positioned BELOW pan outlet.
3. Connect cable from optional SP1A remote pan sensor if applicable.
4. Apply primer and glue to 3/4" SLIP coupler from pan outlet.
5. Position switch assembly for desired sensitivity ensuring LED indicator is visible:

Normal Sensitivity: (Recommended for most installations) Position product on adaptor so that metal probes inside fitting point downward into fitting and LED light is positioned UP. (See Figure 5).

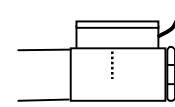


Figure 5: Normal Sensitivity

Maximum Sensitivity (When minimal water in fitting is desired to activate switch): Rotate product on pan outlet adaptor 180° so that metal probes point upward into fitting and LED light is positioned DOWN. (See Figure 6).

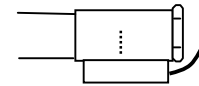


Figure 6: Maximum Sensitivity

6. Push Safe-T-Probe® firmly over pan outlet adaptor until the adaptor hits the stop ring. Ensure that glue does not contact female, free spinning coupler or metal sensor probes inside fitting. If elbow fitting is used, ensure switch assembly is positioned BELOW pan outlet.
7. Insert plug into remaining outlet securely. Glue plug to ensure watertight seal.
8. Wire switch as per instructions under Wiring, below.
9. Test all drain and fitting connections for plumbing leaks.
10. Test switch sensitivity: Plug drain downstream from installation point and run unit to fill pan. Ensure LED lights and equipment stops before pan overflows.
11. Disconnect fitting at female coupler, drain and reconnect fitting. Reset switch by turning thermostat to OFF position and then back to the ON position.

NOTE: SYSTEM WILL NOT START AFTER SWITCH ACTIVATES UNTIL THERMOSTAT IS RESET

WIRING: (See Figure 7).

1. If not present, it is recommended that an inline fuse to protect the 24-volt circuit be installed.
2. Locate Class 2 thermostat cable entering air handler unit.
3. Disconnect or cut red or yellow wire to thermostat and connect to switch lead using wire nut. Connect other switch lead to furnace/A.C. terminal. Incorporating switch in red circuit shuts entire unit, fan continues to run if incorporated in yellow circuit (helps inhibit mold during long absences).
4. Test switch by shorting probe terminals with water while unit is on. If wired correctly, unit will stop and LED will light when sensor probes are shorted.
5. Reset system by switching thermostat to OFF position and then back ON after drain is cleared.

