

INSTALLATION INSTRUCTIONS

MANUAL TEMPERATURE LIMIT (WITH STRAP) FOR XTHERM HEATING BOILERS, MODELS 1005A-2005A

WARNING

These instructions are for use by qualified personnel specifically trained and experienced in the installation of this type of heating equipment and related system components. Installation and service personnel may be required to be licensed in some states. Persons not qualified shall not attempt to install this equipment nor attempt repairs according to these instructions.

WARNING

Make sure water, gas, and power have been turned OFF before making any repairs or servicing this equipment. Make sure the heat exchanger is not under any pressure before attempting to service this part. Allow the appliance to cool before attempting this installation.

DANGER

SHOCK HAZARD: Make sure the electrical power to the unit is disconnected to avoid damage to components, potential serious personal injury or death.

SCOPE: This kit includes replacement components and installation instructions for the Manual Temperature Limit used on XTherm boilers.

RAYPAK INCLUDED PARTS:

Kit Number	Description	Qty.
100-10011040	Manual Vent Temperature Limit, 180°F	1
	Gasket, Silicone Rubber	1
	Vent Limit Strap Assembly	1
	Wire Assembly	1

TOOLS REQUIRED:

Description
Slotted and Phillips Head Screwdrivers
Metal Shears

INSTALLATION INSTRUCTIONS:

1. Turn off electrical power to the boiler, the breaker panel and at the boiler's power switch.
2. Turn off gas to the boiler's manual shut-off valve.
3. Turn off the pump(s).
4. Allow the boiler to cool down before proceeding.
5. Using a Phillips screwdriver, remove the flue access panel located at the flue outlet on the rear of the unit (See **Figure 1**).
6. Using a flat-head screwdriver, tighten the steel clamping band on the Vent Adapter.
7. Determine the proper diameter for the Vent Limit Switch band assembly. Trim the banding material so both ends can be inserted into the Vent Limit Switch bracket (See **Figure 2**).
8. Install the silicone gasket between the Vent Limit Switch and the bracket (See **Figure 3**).
9. Install the Vent Limit Switch onto the flue vent (See **Figure 4**). The switch **MUST** be located on top of the flue outlet. Verify that the switch is in contact with the vent surface.
10. Attach the two (2) Vent Limit Switch wires to the vent limit terminals and connect in series with the "Blocked Condensate Switch" located above the vent.
11. Replace the flue access panel and restore power and gas to the unit.



Figure 1. Removal Flue Access Panel



Figure 2. Vent Limit Switch Band

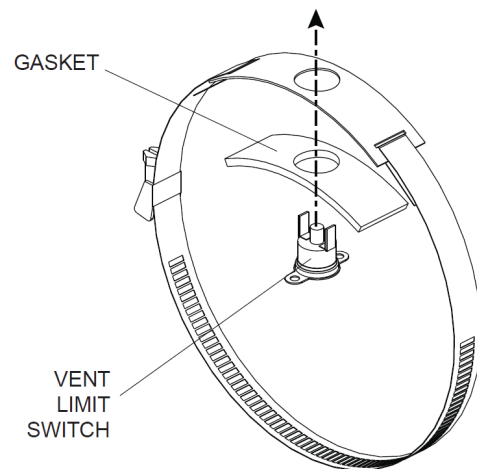


Figure 3. Vent Limit Switch Gasket Orientation



Figure 4. Installed Vent Limit Switch