WHITE-RODGERS

Hot Water Controls

Remote Type

INSTALLATION INSTRUCTIONS

Operator: Save these instructions for future use!

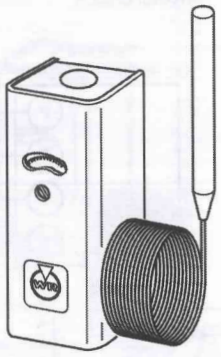
FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

DESCRIPTION

These hot water controls were designed for use on hot water heating installations but they may be used on other heating applications to control the temperature of other fluids. The fluid they are to be used with must not be corrosive to copper.

These controls have capillary tubing between the temperature sensitive bulb and the switch mechanism so that the switch mechanism can be mounted at any convenient location while the temperature sensitive bulb is located in the fluid to be controlled.

These controls have special contacts which are suitable for use on low voltage and millivolt (thermocouple generator type) circuits as well as line voltage equipment such as gas valves, oil burner motors, etc.



PRECAUTIONS

THESE CONTROLS MUST BE INSTALLED BY A QUALIFIED INSTALLER

Do not exceed the specification ratings.

All wiring must conform to local and national electrical codes and ordinances.

This control is a precision instrument, and should be handled carefully. Rough handling or distorting components could cause the control to malfunction.

This control has been accurately calibrated at the factory. any attempt to calibrate this control will void the White-Rodgers warranty.

⚠WARNING

Do not use on circuits exceeding specified voltage. Higher voltage will damage control and could cause shock or fire hazard.

⚠CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Following installation or replacement, follow appliance manufacturer's recommended installation and/or service instructions to insure proper operation.

⚠CAUTION

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

Shut off main gas to heating system until installation is complete.

INSTALLATION

If the equipment manufacturer recommends a control location, follow such recommendations. If none is offered, the following recommendations should be observed.

When used to control the temperature of a vat or tank, locate the control bulb in a place representative of the average temperature. Make certain that the fluid being controlled is not injurious to the copper element.

When used for high limit service on a heating boiler, the control should be installed in the riser close to the boiler, or in a boiler tapping that is near the top or hottest section of the boiler. If the boiler is also used to heat domestic hot water, make sure that the high limit control is not in that section of the boiler that contains the heat exchanger or piping for domestic hot water.

When used for low limit or operator service, the control should be located near that section of the boiler that contains the heat exchanger or piping for domestic hot water.

Be careful to avoid damage to the capillary tubing between the control and the temperature sensitive bulb. This tubing should be led over a path that will protect it from cuts, blows, wear due to vibration, etc.

⚠CAUTION

Do not dent or bend the bulb as this will change the control calibration and cause it to cycle at a temperature lower than the dial setting.

EMERSON

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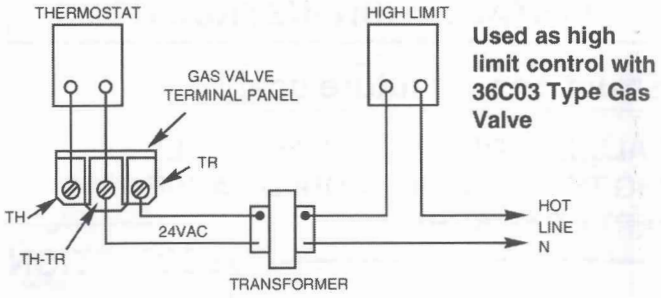
WIRING

NOTE

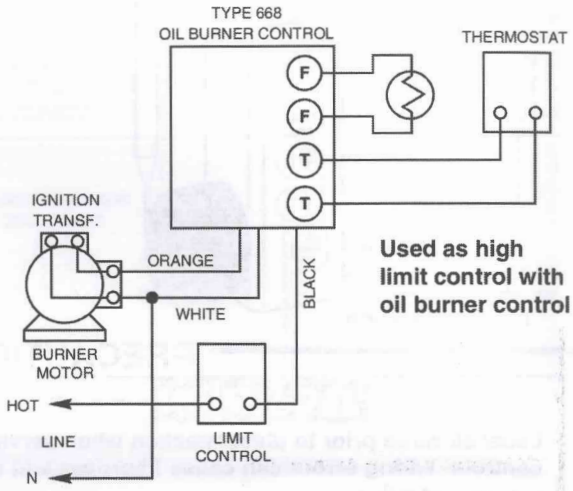
All wiring should be done according to local and national electrical codes.

If the boiler or burner manufacturer recommends a wiring diagram, then follow such recommendations.

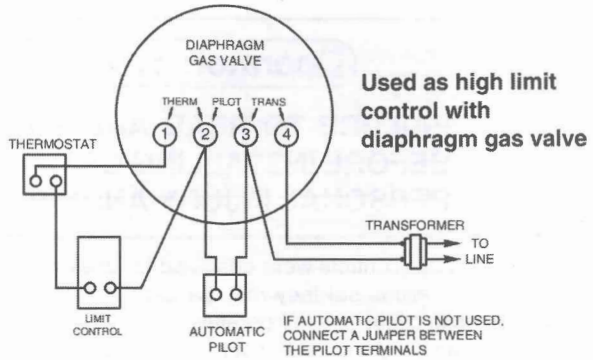
If none is offered, these diagrams show suggested circuits.



Used as high limit control with 36C03 Type Gas Valve

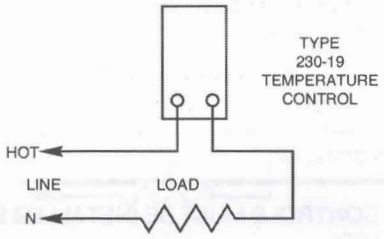


Used as high limit control with oil burner control



Used as high limit control with diaphragm gas valve

Used as operating control for electrically heated tank



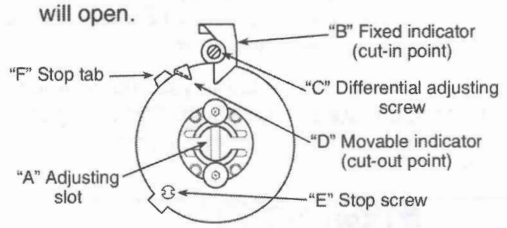
SETTING THE CONTROL

CONTROLS WITH ADJUSTABLE DIFFERENTIAL

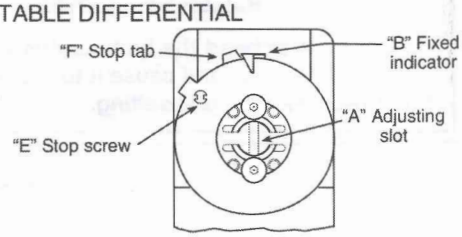
The movable indicator points to the temperature at which the contacts open. The fixed indicator points to the temperature at which the contacts close. The difference between these two indicators is the differential.

To set the control:

1. Use a screwdriver in the adjusting slot (A) on the front of the control to turn the dial so that the fixed indicator (B) points to the temperature at which the contacts will close.
2. Turn the differential adjusting screw (C) until the movable indicator (D) points to the temperature at which the contacts will open.



ADJUSTABLE DIFFERENTIAL



FIXED DIFFERENTIAL

CONTROLS WITH A FIXED DIFFERENTIAL

The indicator (B) points to the temperature at which the contacts open.

To set the control:

Use a screwdriver in the adjusting slot (A) on the front of the control to rotate dial until the desired temperature at which the contacts will open is positioned directly under the indicator (B).

CONTROLS WITH ADJUSTABLE STOPS

⚠ CAUTION

Setting stop higher than control being replaced could cause personal injury and/or property damage.

1. Loosen stop screw (E) with enclosed wrench.
2. Set dial to original equipment manufacturer's specification.
3. Without moving the dial, move stop tab (F) against indicator.
4. Retighten stop screw (E).