



WHITE-RODGERS

37C73U Water Heater Control

CAUTION

FOR YOUR SAFETY

If you smell gas:

1. Open windows.
2. Don't touch electrical switches.
3. Extinguish any open flame.
4. Immediately evacuate premises and call your gas supplier.

NOTE

The automatic gas shut-off system actuated by high water temperature is a single-use type (non-recycling). If the circuit is open, replace complete control.

Model 37C73U is designed for replacement of the following:

Original Control	Original Outlet Fitting	Replacement Fitting
White-Rodgers 3703, 3753	3/8" NPT	Use both fittings
	1/2" Inverted Flare	Use large fitting
Grayson 110R, 200R	3/8" NPT	Use both fittings
	1/2" Inverted Flare	Use large fitting
General G9A, G10A	3/8" NPT	Use both fittings
	1/2" Inverted Flare	Use large fitting
Honeywell VS130C, VS131C	3/8" NPT	Use both fittings
	1/2" Inverted Flare	Use large fitting
White-Rodgers 3763, 3773, 3775, 3763U, 3773U, 3775U	3/8" NPT	Use small fitting
	1/2" Inverted Flare	None

INSTALLATION

For the control to function properly, the following general rules should be kept in mind when it is installed.

- REPLACING THERMOSTATS WITHOUT E.C.O. SWITCH: When replacing thermostats that do not have an E.C.O. switch, just replace in the normal manner using the replacement fittings specified in the replacement table. The built-in E.C.O. switch feature in this control is internally connected at the factory, therefore no additional connections are necessary. This E.C.O. feature will provide an additional precaution against overheating.
 - REPLACING THERMOSTATS WITH INDEPENDENT E.C.O. SWITCH: When replacing thermostats water heaters that have an independent E.C.O. switch connected to a junction block on the thermocouple, replace the thermostat in the normal manner. Also, disconnect the independent E.C.O. switch from the thermocouple junction box and replace the junction-block thermocouple with a standard universal thermocouple. No additional connections are necessary with the internally connected built-in E.C.O. switch. The independent E.C.O. system can be left disconnected on the water heater.
- You should use new pipe that is properly chamfered, reamed, and free of burrs and chips. If you use old pipe, be sure that it is clean and free of rust, scale, burrs, chips and old pipe compound. Do not thread pipe too far; the control may be damaged by turning the pipe too far into the body.
 - Make pipe connections with drip leg installed as illustrated in figure 1. Before making pipe connections, apply pipe joint compound (pipe dope) or teflon tape that is approved for all gases, only to the male threads of the pipe joints. DO NOT apply compound or teflon tape to the first two threads.
 - Make outlet connection. Refer to replacement table for correct outlet adaptors to use.
 - Make pilot gas connection. Use clean, deburred tubing. Insert all the way into pilot outlet fitting and tighten until a slight "give" is felt. Then tighten 1 1/2 more turns.

- Install pilot burner according to manufacturer's instructions.
- Make thermocouple connection.
 - The thermocouple connection should be clean for good electrical contact.
 - Run the thermocouple nut as far in as possible by hand, then set the nut with only 1/4 to 1/2 additional turn with a small wrench. Do not overtighten.
- With gas cock knob in OFF position and gas supply turned on, check for leaks at inlet gas supply connections. Use a soap solution to check for leaks. DO NOT use an open flame to test for gas leaks. Tighten joints to

NOTE

stop leaks.

Attach the label (part no. 153-2635) that is packed with the control to the appliance for future reference.

LIGHTING PROCEDURE

Gas cock knob cannot be turned from PILOT to OFF unless the knob is depressed.

- Turn gas cock knob to OFF position and the temperature adjusting knob to the lowest setting. NOTE: If knob is in the ON position, turn clockwise to PILOT position. Then depress knob and turn to OFF position.
- Allow at least five minutes to permit any gas in the burner compartment to escape.
- Turn gas cock knob to PILOT position.
- Press gas cock knob down until it stops, and light the pilot burner. Continue to hold the knob down for approximately one minute, or until the pilot remains lit when the knob is released.
- Turn gas cock knob to ON position.
- Set temperature knob to desired position. The main burner will ignite.

TEMPORARY SHUT-OFF

To temporarily shut off the main burner, turn gas cock knob to PILOT position. The pilot remains lit. For complete shut-off, depress and turn gas cock knob to OFF position.

FIXED ADJUSTMENT MAIN AND PILOT REGULATORS

The main and pilot gas regulators require no field service—they automatically control and maintain the outlet main and pilot burner gas pressure.

CHECKOUT

- With the main burner ON and burning, use a soap solution to test for gas leaks at all connections. Tighten joints to stop leaks.
- Check water heater through at least one cycle to be sure everything is operating properly.

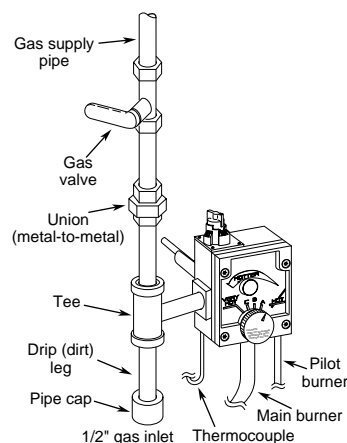


Figure 1. Typical Gas Connection



WHITE-RODGERS DIVISION
EMERSON ELECTRIC CO.
9797 REAVIS ROAD
ST. LOUIS, MISSOURI 63123-5329

Part No. 37-4432B
Replaces 37-4432A
9225