



Zone Control Panel Installation Instructions

High Capacity For Modulating Radiant Heaters

⚠ CAUTION
Not for Use with Pilot Ignition
Infraconic Heaters

1. The zone control panel is a remote mounted control system allowing operation of a specific amount of heaters within a certain zone of the building.
2. This panel will control the following quantity of heaters depending on heat output and fuel type. Refer to the following table:

Model and BTUH	Fuel	Qty.
I17 (17,100 BTUH)	L.P. Vapor or Natural Gas	40
I34 (34,200 BTUH)		20

3. The zone control panel must be mounted to a flat, stable wall inside building. Use lag screws provided.

⚠ CAUTION
The zone control panel regulator is equipped with an approved vent limiting device listed in accordance with ANSI Z21.18 Standard for Gas Appliance Pressure Regulators. This vent limiting device is capable of 5 psi inlet pressure for natural gas or 2 psi for propane. When installing this panel into a propane system, the vent limit device must be removed and the regulator vented outside using a metallic vent line no smaller than the vent connection on the regulator. Refer to NFPA 54 Section 5.1.18.

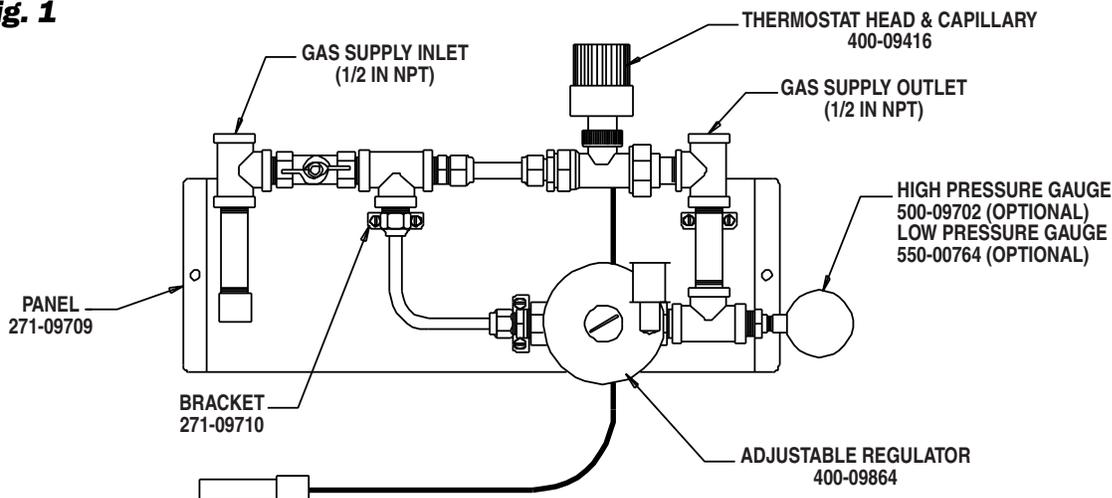
4. The zone control panel must have an adjustable high pressure regulator installed upstream of the inlet of the zone control panel. This regulator may be purchased from the L. B. White Co. as an optional accessory, part number 550-09703. For L.P. gas, the

regulator must be capable of handling maximum inlet pressure of 10 PSIG, while supplying an outlet pressure of 5 PSIG nominal. For natural gas, a regulator must be installed to supply an outlet pressure of 5 PSIG nominal.

5. Each heater zone control must be adjusted properly to insure a 5 PSIG (L.P. or Natural Gas) supply pressure to each heater within the zone. Refer to the following instructions:
 - a. With gas supply off, remove the countersunk hex head pressure tap and install a high pressure gas gauge capable of reading 5 PSIG. Use pipe thread compound on the pressure gauge threads and tighten securely. See Fig. 1.
 - b. Open the gas supply to the inlet of the zone control panel. Check for gas leaks.
 - c. Light all heaters in the zone according to Start-Up instructions within the owner's manual.
 - d. Turn the thermostat on the zone control panel to its highest setting.
 - e. Adjust the high pressure regulator until the pressure gauge on the panel read 5 PSIG (L.P. or Natural Gas). At this point the pressure has been set for the specific zone.
 - f. Shut off gas supply at shut-off valve on the zone panel and let the heater burner off excess gas left in the line.
 - g. Remove the high pressure gas gauge and install a low pressure gas gauge at the same location.

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Fig. 1



- h. Open the gas supply valve on the zone panel. Set the thermostat to 60° F. and light all heaters within the zone.
- i. With all heaters lit, the outlet pressure of the regulator on panel must be set to 10 in. W.C.

- j. Shut off the gas, let the heaters burn off excess gas left in the line. Remove the gas pressure gauge and reinstall the countersunk hex head plug. Use pipe thread compound at this connection and tighten securely.

Component Function

- 1. High Pressure Gas Gauge.
(Optional Accessory, part number 130-09702.)
The high pressure gas gauge will measure inlet gas supply pressure to the panel. The gauge measures from 0 - 10 PSIG. (Each heater operates at 5 PSIG.)
- 2. Adjustable Regulator.
The adjustable regulator sets the low fire heat output of the heater.
- 3. Low Pressure Gas Gauge.
(Optional Accessory, part number 550-00764.)
Measures outlet pressure of adjustable regulator in inches of water column (in. W.C.) for all heaters within zone.

- 4. Thermostat and Temperature Sensor Assembly.
This assembly allows the customer to set the heater at a specific temperature. It will then cycle the heater according to temperature set point. The temperature selector knob has various indicators on it for temperature setting.

The temperature sensor incorporates a 25 ft. long capillary tube with bulb. The bulb must be located at a maximum height of 2 feet above the floor area of the building being heated for proper temperature sensing. See Fig. 2.

**Fig. 2
Zone Control Panel Installation**

