

March, 2016

## INSTALLATION INSTRUCTIONS

### Unit mounted thermostat Horizontal electric unit heaters Model HER

## ! WARNING

1. Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage.
2. All units must be wired strictly in accordance with wiring diagram furnished with the unit. Any wiring different from the wiring diagram could result in a hazard to persons and property.
3. All wiring must be done with a wiring material having a temperature rating of at least 105°C.

## IMPORTANT

The use of this manual is specifically intended for a qualified installation and service agency. All installation and service of these units must be performed by a qualified installation and service agency. Modine manuals may contain excerpts from component supplier literature adapted for Modine products. Any accompanying component supplier literature is for general information.

### Application

Less wiring, space convenience and discouragement of thermostat tampering can be realized with a thermostat mounted directly on an electric unit heater. Unit-mounted thermostats can be field installed on Models HER 30 through HER250, using a thermostat kit.

The thermostat switch is rated at 25 amperes, non-inductive at 240 VAC, 18 amperes, non-inductive at 277 VAC. Pilot duty rating is 125 VA at 250 VAC. The switch is single-pole, single throw, open on temperature rise. Temperature range of the dial setting is from 40°F to 90°F.

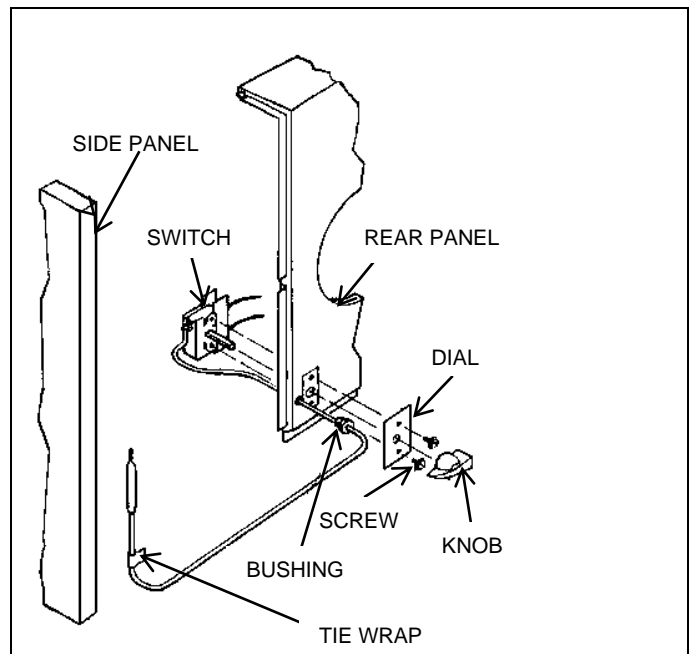
The thermostat is listed by C.S.A. as certified and is also listed with Underwriters Laboratories, Incorporated.

### Contents

The contents of the kit are listed below. Refer to Figure 1.1 for location.

- One thermostat switch
- One thermostat indicator plate
- One thermostat control knob
- One snap bushing
- Two sheet metal screws
- One tie wrap base and tie wrap

Figure 1.1 – Unit Mounted Stat Exploded View



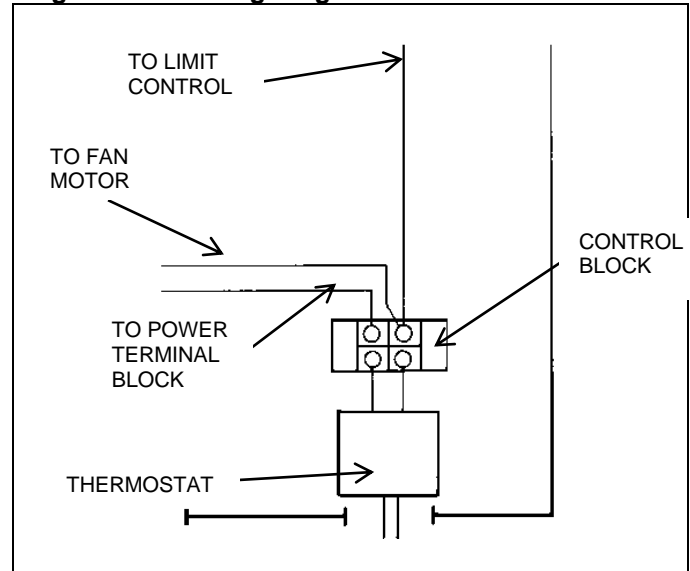
## Installation

### **WARNING**

Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage.

1. Disconnect power supply and open bottom panel. Remove wire leads from thermostat or terminal block that are attached to remote thermostat or on/off switch. Note wiring diagram on inside of bottom panel.
2. Remove the hole plug in the 5/8" diameter hole nearest the left side of the unit and replace it with the plastic bushing in the kit.
3. Run the capillary bulb and tubing through the bushing from the inside out. Locate thermostat shaft through adjacent 7/8" diameter hole from the inside out.
4. Holding the thermostat in place, slide thermostat indicator plate over the thermostat shaft and fasten with screws provided.
5. Push control knob onto thermostat shaft and secure by tightening set screw against flat on shaft.
6. Extend capillary tube up the rear left side of the unit. Be sure surface of unit is clean and affix capillary tube to unit using the tie wrap base and tie wrap.
7. Fasten thermostat wire leads to control terminal block terminals (See Figure 2.1 and wiring diagram in bottom panel).
8. Close bottom panel.

**Figure 2.1 – Wiring Diagram**



### Initial Start-Up

Adjust thermostat to coolest setting. Turn on power to unit. Adjust thermostat until unit begins operation. Readjust thermostat as required to maintain desired room temperature.

Modine Manufacturing Company has a continuous product improvement program, and therefore reserves the right to change design and specifications without notice.

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