



L6006C Surface Mounted Aquastat Controller

INSTALLATION INSTRUCTIONS

APPLICATION

The L6006C is a nonimmersion Aquastat controller used for limiting or regulating temperature of liquids in boilers, storage tanks, and other applications where temperature control of liquids is required.

The L6006C model features dial stop factory-set at 200 F (93 C).

INSTALLATION

When Installing This Product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

CAUTION

1. Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.
2. Do not secure draw nut so tight that retainer clamp could collapse tubing.



Fig. 1. L6006C Surface-mounted Aquastat controller

MOUNTING

The L6006C is designed for surface mounting on piping or tanks.

NOTE: When mounting the L6006C on piping, the pipe should be 1 in. (25.4 mm) diameter or larger for accurate temperature sensing. Remove any insulation from pipe. Thoroughly scrape off all scale, rust, or paint. Mount controller using adjustable bracket furnished.

Mount the L6006C directly on tank surface using the adjustable mounting bracket as shown in Fig. 2. The control can be mounted in any position. (If mounting L6006C on pipe, see NOTE above.)



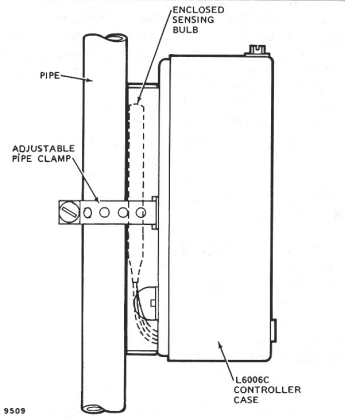
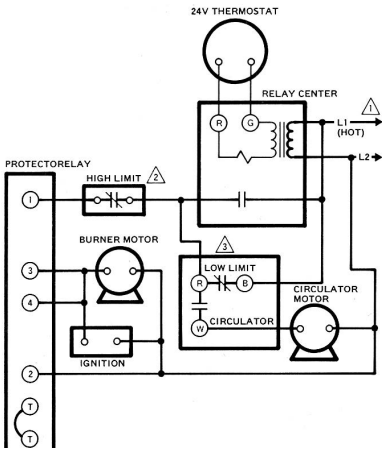


Fig. 2. Mounting L6006C on pipe or tank

WIRING

Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.

All wiring must comply with applicable codes and ordinances. The case has a knockout for 1/2 inch conduit. Fig. 3 shows typical hookup diagram.



- ⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.
- ⚠ L6006C USED AS HIGH LIMIT.
- ⚠ L6006C USED AS LOW LIMIT/CIRCULATOR CONTROLLER.

Fig. 3. Typical oil-fired hydronic system with domestic hot water

OPERATION

For proper selection of settings, follow the boiler manufacturer's recommendations. The L6006C can be used as a high limit, low limit, or circulator controller.

HIGH LIMIT CONTROLLER

R-B terminals provide high limit switching function (contacts open on temperature rise to set point). Shuts off burner if water temperature exceeds the high limit setting. Burner restarts when temperature drops to high limit setting less differential.

LOW LIMIT CONTROLLER

R-B terminals provide low limit switching function (contacts open on temperature rise to set point). Maintains minimum boiler temperature for domestic hot water. Turns on boiler at temperature setting, minus differential.

CIRCULATOR CONTROLLER

R-W terminals provide circulation control function (contacts close on temperature rise to set point). Prevents circulation of water that is below the desired heating temperature. Breaks circulator circuit on temperature drop below setting minus differential, remakes on rise to setting.

ADJUSTMENT

Set the differential to correspond with the boiler manufacturer's recommendations. To adjust differential, rotate the wheel on the back of the snap switch until the desired reading is aligned with the "V" notch in the frame. The wheel provides an adjustment from 5 F to 30 F (2.8 C to 16.7 C). Replace the cover on the Aquastat controller.

Adjust the control point to correspond with the boiler manufacturer's recommendations. Insert a screwdriver in the slotted screw type head located beneath the window in the cover. Turn the scale to the desired temperature control point.

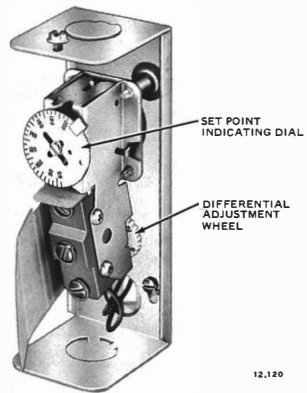


Fig. 4. Adjusting differential on L6006C

CHECKOUT

Check to make certain that the Aquastat controller has been installed and adjusted properly. Put the system into operation and observe through several cycles.



Resideo Technologies, Inc.
1985 Douglas Drive North, Golden Valley, MN 55422
1-800-468-1502

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