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**MPD 37381**

**hydro flame™**

**Model HFH-2000  
 Heating Thermostat**

**FOR 12 VOLT, 24 VOLT, GAS HEAT and/or OIL HEAT**

**ENGLISH, FRANCAIS** (et Canada)

**•Installation •Operation**

Effective 11/16/00

**⚠ WARNING  
 PRODUCT DAMAGE**

- Disconnect electricity to the appliance before installation or service. Reconnect when through.
- DO NOT short control terminals at appliance to test system. The room thermostat will be damaged.
- DO NOT locate thermostat in a humid area. The life expectancy will be reduced.
- Wiring must conform to local codes and ordinances.
- When appliances have time delay controls the system operation will lag behind the thermostat call for heat.

**DESCRIPTION**

The HFH-2000 Room Thermostat controls a gas heating system. It senses the room temperature and automatically opens or closes the electrical circuit to a valve or a relay in a heating appliance.

There are two main assemblies, a cover and a base. The cover has a decorative face and comes with a thermometer. The temperature scales are fahrenheit and celsius. There are four internal ribs which fit into guides in the base for centering and holding the cover to the base.

The base mounts to the wall with two #6 screws. Leveling is not required for the unit to function. The system wiring is connected to the thermostat with two screws provided on the back of the base. On the base face side is located the bimetal coil, a magnet, contacts, adjustable anticipator, a temperature setting lever and an OFF switch. The anticipator adjusts the thermostat to the heating system, and can be used to change the system cycles per hour for more even heating cycles. The lever at the base of the thermostat is used to set the temperature to the desired comfort level. Starting from the left side with the coolest setting and increasing temperature setting as you move the right as indicated by the increase in bar height shown on the thermostat cover.

**SPECIFICATIONS - MODEL HFH-2000**

COLOR: WHITE	MPD 38453
COLOR: BROWN	MPD 38452
ELECTRICAL RATING	24 VAC volt nominal (30 Vac, 1.0 amp maximum) 12 DC volt nominal
APPLICATION	two wire heating only
ANTICIPATION	0.1 to 1.0 amp, adjustable
TEMPERATURE RANGE	50°F to 90°F, 10°C to 30°C
TEMPERATURE DIFFERENTIAL	4 F, 2°C
SIZE	3" x 3-1/8" x 1-1/2" approximately

**INSTALLATION & OPERATION**

For accurate temperature control and comfort, correct location is very important.

**New Installation - Thermostat Location**

- Locate the thermostat on an inside wall about 48" - 54" above the floor, where it is easy to install and adjust. It should be in a room that is used often, such as a living room.
- DO NOT install the thermostat where there are unusual heating conditions such as direct sunlight, close to a lamp, radio, television, radiator, register, near a fireplace or other heat producing appliance.
- DO NOT locate in unusual cooling conditions, such as on an outside wall, or one separating an unheated room, or in drafts from stairwells, doors or windows.
- DO NOT locate in a damp or humid area. This can shorten thermostat life due to corrosion.
- DO NOT locate where air circulation is poor, such as in a corner, alcove or behind an open door.
- DO NOT install unit until all construction work and painting have been completed.

**Replacement Installation - Thermostat Location**

When replacing an old thermostat, install the new one in the same location unless the above conditions suggest otherwise.

**⚠ WARNING  
 MERCURY - HAZARDOUS WASTE**

- Some old thermostats may contain mercury. Handle with care, dispose of properly.

**Tools Required**

Wire stripper or knife, drill with 1/16" bit, screwdriver, level and a pencil.

**Removing Old Thermostat**

Please read all instructions carefully. As you complete each step, check the adjoining square .

- Disconnect electricity and turn off gas to the heater.
- Remove cover from old thermostat.
- Loosen all screws on the old thermostat and remove it from the wall.
- Make note of wires and to which terminals they are attached as you disconnect them. For example: "Yellow wire to terminal Y, Red wire to terminal RH," etc.
- Strip insulation 3/8" from wire ends and clean off any corrosion.
- Fill wall opening with non-combustible insulation to prevent drafts from affecting thermostat.

### Installing New Thermostat

- 1. Remove front cover of new thermostat by inserting a finger in the side of the thermostat and gently prying away each corner. Remove base, FIG 1, from cover.
- 2. Place base, FIG 2, on wall over wall opening. Mark wall with pencil at mounting holes as shown in FIG 2.
- 3. Drill two holes with 1/16" bit, 1/4" deep.
- 4. Bring wires up to back side of thermostat base and attach white wire to terminal marked "W" and red wire to terminal marked "R" as shown in FIG 2.
- 5. Fasten loosely to wall using two mounting screws. Place a level against the bottom of the base, adjust unit it is level and then tighten mounting screws to secure.
- 6. Find anticipator setting on old thermostat. Setting on new thermostat should be the same. Do this by carefully sliding the long pointer, FIG 1, over desired number printed on the anticipator. If old anticipator setting cannot be determined, look on the gas control on the furnace, or set at 5. During heating season, furnace should operate about five times an hour. If adjustments are necessary, move heat anticipator pointer slightly and recheck. **NOTE: Set pointer to 1.2 for millivolt systems.**
- 7. Attach front cover to base.
- 8. Turn electricity and gas back on and set pointer on bottom of thermostat to mid point and adjust for setting to desired comfort level.

If thermostat can only control temperature near it. If you find that it is uncomfortable some distance away from the thermostat, change the setting in order to compensate for this.

### TECHNICAL SERVICE

If you have any problems installing or using this thermostat, please read the instructions carefully. If you still encounter problems, call 1-815-877-5700 between 8:00 AM and 4:30 PM Central Standard Time, Monday through Friday. Please refer to model HFH2000.

### WARRANTY

Limited Warranty: If this unit fails because of defects in materials or workmanship within one year of date of original purchaser, Atwood will, at its option, repair or replace it. This warranty does not cover damage by accident, misuse, or failure to follow installation instructions. Implied warranties are limited in duration to one year from date of original purchaser. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Please return malfunctioning or defective units to Atwood Mobile Products, 1874 South Pioneer Road, Salt Lake City Utah 84104-4226.

Purchaser assumes all risks and liability for incidental and consequential damage resulting from installation and use of this unit. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Applicable in the U.S.A. only.

