

User manual Thermostat

Pre-installation checklist

Check package contents:

- Thermostat
- Wall anchors & screws (2 each)
- Large Print Subbase Switch Labels
- Coverplate

Before you begin, make sure you have:

- No. 2 Phillips & small pocket screwdrivers
- Hammer
- Level (optional)
- Pencil
- Drill and bit (3/16" for drywall, 7/32" for plaster)

Product application

This thermostat provides electronic control of 24 VAC single-stage heating and cooling systems.

System Types

- Gas, oil, or electric heat with air conditioning
- Warm air, hot water, high-efficiency furnaces, heat pumps, steam, gravity
- Heat only
- Heat only with fan
- Cool only

System Settings

- Heat, Off, Cool

Fan Settings

- Auto, On

Specifications

Temperature Range

- 40° to 90°F (4.5° to 32°C)

Shipping Temperature

- -20° to 120°F (-28.9° to 48.9°C)

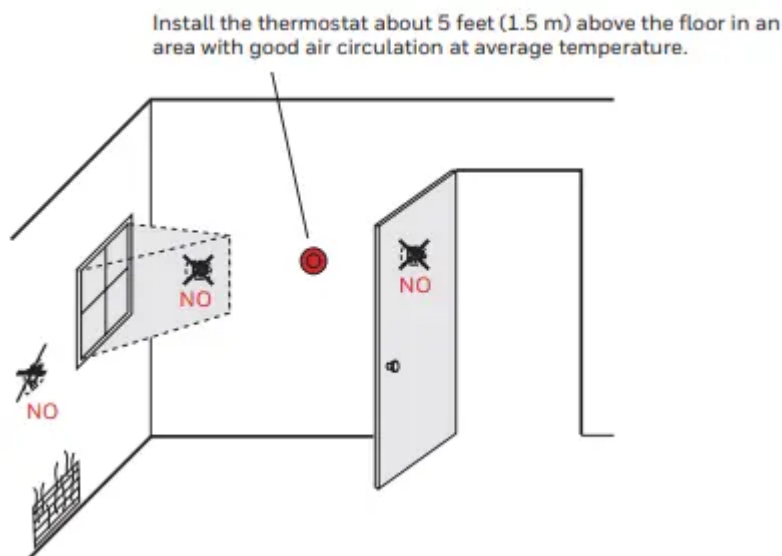
Operating Relative Humidity

- 5% to 90% (non-condensing)

Electrical Ratings

- Voltage: 20–30 VAC
- Running current: 0.02–1.0 A, 50/60 Hz

Installation tips

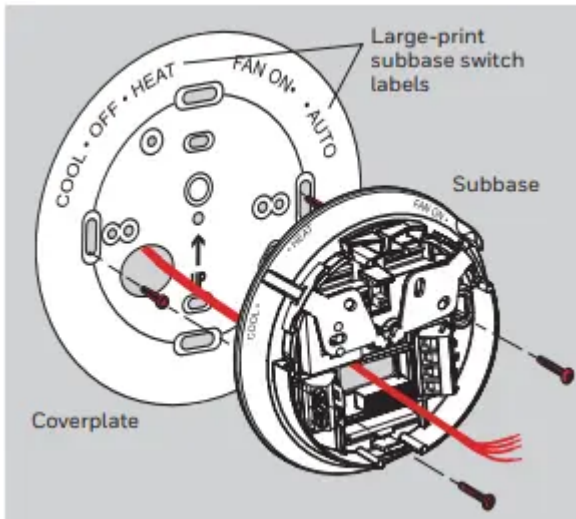


Do not install in locations where the thermostat can be affected by:

- Drafts or dead spots behind doors and in corners
- Hot or cold air from ducts
- Sunlight or radiant heat from appliances
- Concealed pipes or chimneys
- Unheated/uncooled areas such as an outside wall behind the thermostat

Subbase and base installation

1. Pull wires through wire hole. Position coverplate on wall, level and mark hole positions.
2. Drill holes (3/16" for drywall, 7/32" for plaster) and tap in supplied wall anchors.
3. Pull wire through coverplate and subbase, position over anchors, then insert and tighten mounting screws. Check level if desired.
4. Apply the large-print labels to the coverplate, matching the labels on the subbase.



Wiring

1. Loosen screw terminals, insert wires into terminal block, then re-tighten screws.
2. Push excess wire back into the wall opening.
3. Plug the wall opening with nonflammable insulation to prevent drafts from affecting thermostat operation.

Terminal Designations

W Heat relay.

Y Compressor contactor.

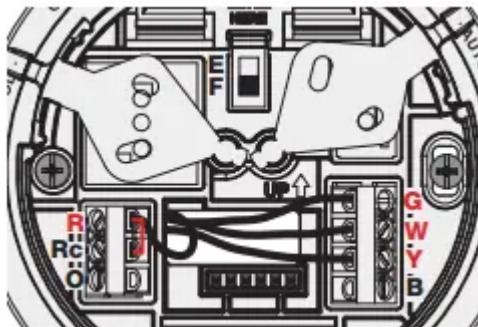
G Fan relay.

O Heat pump changeover valve energized in cooling.

Rc Cooling power. Connect to secondary side of cooling system transformer.

R Heating power. Connect to secondary side of heating system transformer.

B Heat pump changeover valve energized in heating.



NOTES

R & Rc terminals

In single-transformer system, leave metal jumper in place between R & Rc. Remove metal jumper if two-transformer system.

Heat pump systems

If wiring to a heat pump, use a small piece of wire (not supplied) to connect terminals W and Y.

Wire specifications

Use 18- to 22-gauge thermostat wire.

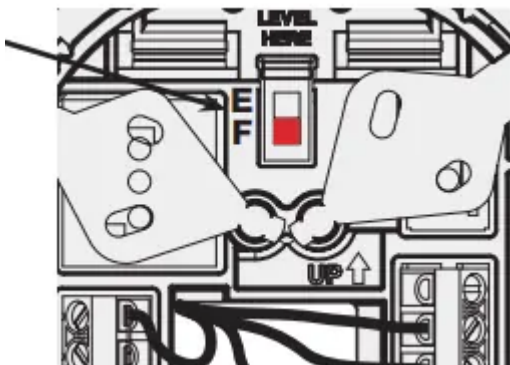
Shielded cable is not required.

Fan operation settings

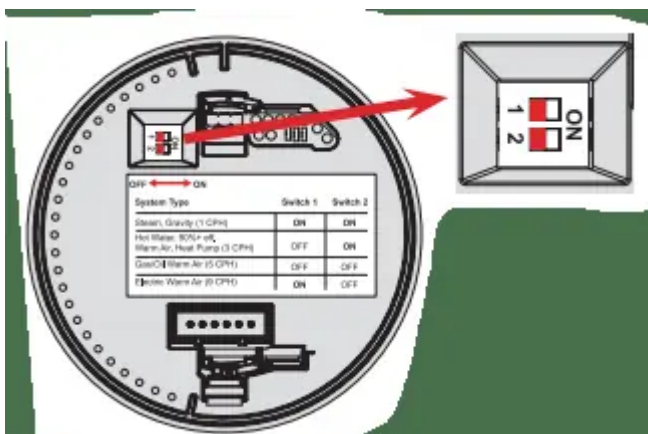
Fan operation settings:

F: For gas or oil heating systems, leave the fan operation switch in this factory-set position (for systems that control the fan in a call for heat).

E: Change the switch to this setting for heat pump or electric heat systems. (This setting is for systems that allow the thermostat to control the fan in a call for heat, if a fan wire is connected to the G terminal.)



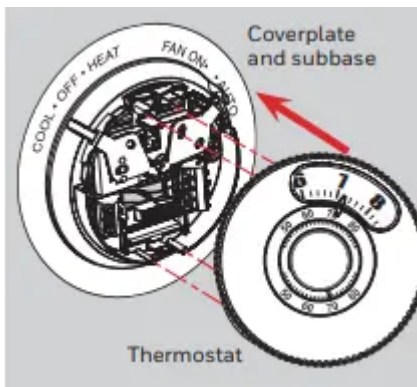
Cycle rate settings



Move the cycle rate switches to the proper setting for your system (see table below).

Heating System	Switch 1	Switch 2
Steam or gravity (1 CPH)	On	On
High efficiency warm air (90%+), hot water, or heat pump (3 CPH)	Off	On
Gas or oil warm air (factory setting) (5 CPH)	Off	Off
Electric warm air (9 CPH)	On	Off

Thermostat mounting



Align the slots on the base with tabs on the thermostat, then push gently until the thermostat snaps into place.

Operation

System switch

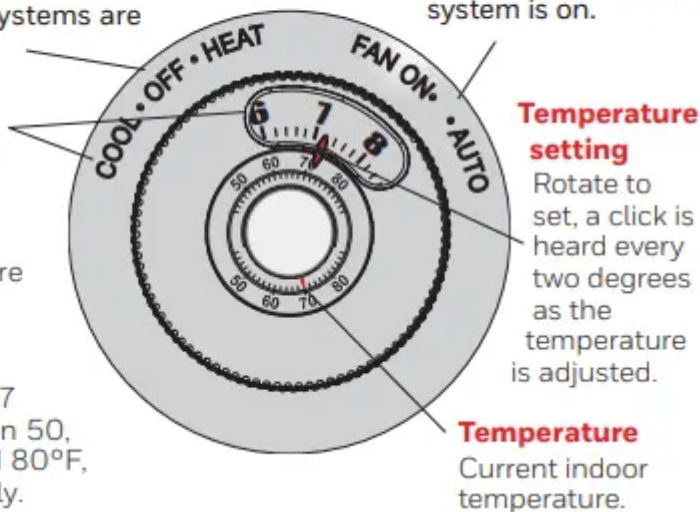
- **Cool:** Controls the cooling system.
- **Heat:** Controls the heating system.
- **Off:** All systems are off.

Fan switch

- **On:** Fan runs continuously.
- **Auto:** Fan runs only when heating or cooling system is on.

Markings

Enlarged, raised numbers indicate temperature range by touch or sight. The large 5, 6, 7 and 8 mean 50, 60, 70 and 80°F, respectively.



Temperature setting

Rotate to set, a click is heard every two degrees as the temperature is adjusted.

Temperature
Current indoor temperature.

CAUTION: EQUIPMENT DAMAGE HAZARD

Do not operate cooling system when outdoor temperature is below 50°F (10°C).

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

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