

This manual covers the following models*:

T822K,L • T827K

* Images are for reference only and may not represent the actual thermostat.

Pre-installation checklis

Check package contents:

- Thermostat
 Wall anchors & screws (2 each)

Before you begin, make sure you have:

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

Must be installed by a trained, experienced technician

Read these instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.



beginning installation. CAUTION: ELECTRICAL HAZARD

Can cause electrical shock or equipment damage. Disconnect power before



MERCURY NOTICE

If this product is replacing a control that contains mercury in a sealed tube, do not place the old control in the trash. Contact your local waste management authority for instructions regarding recycling and proper disposal.

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Product application

This thermostat provides control of:

- 24 Vac heating systems (T822K)
- 750 mV or 12 Vdc heating systems (T827K)
- 24 Vac cooling systems (T822L)

System Types

- Gas or oil
- Warm air, hot water, high-efficiency furnaces, heat pumps, steam, gravity
- Normally closed hot water valves (T822K)
- 2-wire cooling systems (T822L)
- Normally open hot water valves (T822L)

System Settings

Heat, Off (select models only)

Fan Settings

Auto, On (select models only)

Specifications

Temperature Control Range

- 45° to 95°F (7° to 35°C)
- 35° to 85°F (2° to 29°C)*

0° to 120°F (-18° to 49°C)

Operating Ambient Temperature

Operating Relative Humidity 5% to 90% (non-condensing)

Dimensions (vertical model)

- 2.88W x 4.75H x 1.5D (inches)
- 73W x 121H x 38D (mm)

Dimensions (horizontal model)

- 4.75W x 2.88H x 1.5D (inches)
- 121W x73H x 38D (mm)

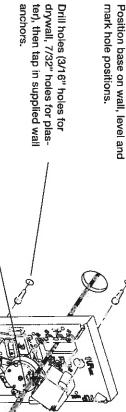
Electrical Ratings

-	2	G Fan	ჯ გ	Q	(P	W1 Heating	Terminal
Tegal and Tearly	(Normally open hot water valve.)	5	Cooling	(DC Powered)	(Powerpile)	ating	
000	20-30 Vac	20-30 Vac	20-30 Vac	12 Vdc	750 mVdc	20-30 Vac	Voltage (50/60Hz)
1000	0.02-1.2 A	0.02-0.6 A	0.02-1.2 A	.55 A	100 mAdc	0.02-1.2 A	Running Current

69-2251EFS-02

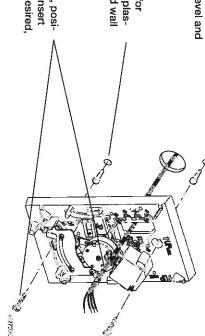
N

Pull wires through wire hole. mark hole positions. Position base on wall, level and



Pull wires through base, posiscrews. Check level if desired tion over anchors, and insert

then tighten screws.



anchors.

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

Terminal Designations

where temperatures below freezing can temperature range is for use in areas freezing can occur. A product with this in a home. Temperatures at or below with this temperature control range **CAUTION:** Do not use a product

occur, such as a garage.

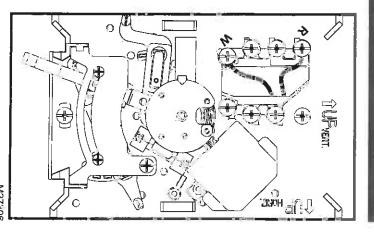
R Heating power. Connect to secondary side of heating system transformer.

W' Heat relay.

- Y Cool relay, or
- normally open hot water valve
- Fan relay (select models only)
- T822K and T827K

Wire specifications

cable is not required. Use 18-gauge thermostat wire. Shielded



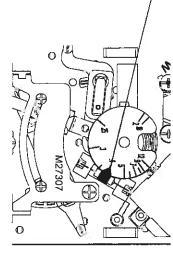
M27'306

Your system	Move the adjustment arrow to the proper setting for your system (see table below).
Setting	rrow to thesystem

Tour ayacem	Fillinge
Steam	1.2
Hot water heat	0.8
Warm air (high efficiency)	0.8
Warm air (standard)	0.4

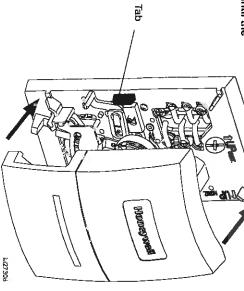
Electric heat

0.3



Thermostat mounting

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



Operation

Fan switch (select models)

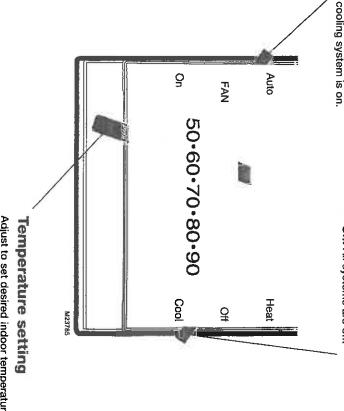
- On: Fan runs continuously.

 Auto: Fan runs only when heating or cooling system is on.

System switch (select models)

- Heat: Controls the heating system.

 Off: All systems are off.



Note: Temperature scale varies by model. Adjust to set desired indoor temperature.