

# **T46 Series Fan Coil Thermostat**

## Description

The T46 Series Thermostat is used to control line voltage, fan coil, and heating zone valves on heating, cooling, and combination heating and cooling systems. Models are available with single-pole, single-throw (SPST) or single-pole, double-throw (SPDT) contact action for standard duty (nominal 1/4 hp, 6 A non-inductive) applications. Thermostats are available with or without fan speed control or built-in thermometers. Various system switch combinations are available, including fan speed selection.

Field-installable faceplate combinations of knob or concealed adjustment are possible. Also, the T46 is available with or without thermometer indication. These thermostats have plastic locking covers with an Allen-head screw to discourage unauthorized tampering. Standard models are supplied with the thermostat faceplate installed with knob adjustment and thermometer.

Refer to the *T46 Series Fan Coil Thermostats Product Bulletin (LIT-125655)* for important product application information.

## **Selection Charts**

### T46 Series Fan Coil Thermostat

Product Code Number	System Switch	Fan Switch			
Heating					
T46ABH-1C	Auto-off-fan	None			
T46ADH-1C	Off-auto	None			
Cooling					
T46JBH-1C	Auto-off-fan	None			
T46JDH-1C	Off-auto	None			
T46JEA-1C	On-off	Low-med-high			
Heating and Cooling					
T46SAA-1C	Heat-off-cool	Low-med-high			
T46SAH-1C	Heat-off-cool	None			
T46SDA-1C	Off-auto	Low-med-high			
T46SDH-1C	Off-auto	None			

## **Technical Specifications**

#### Features

- knob or concealed setpoint adjustment
- low and high temperature dial stops that are concealed and adjustable throughout setpoint range
- can be set for a locked dial
- narrow differential without the need for anticipator
- standard internal dual Celsius and Fahrenheit scales
- switch mechanism and wiring connections go into the switch box to isolate electrical circuits from the sensing element
- mounts on a standard double outlet box
- separable mounting plate allows easy mounting and wiring without removing thermostat cover
- locking cover reduces unauthorized tampering
- high-impact plastic enclosure
- smooth action multi-position slide switches for dependable service



T46 Thermostat

## Applications

These thermostats control fan coil and zone heating valves on a wide variety of heating and cooling combinations for conditioned space.

#### **Replacement Parts**

Product Code Number	Description
CVR88A-600R	Thermostat Cover Assembly for knob adjustment models with thermometer, °F scale, faceplate supplied unassembled
KNB26A-600R	Plastic push on knob for thermostat
BKT48A-600R	Mounting plate for T46

#### Accessories

Product Code Number	Faceplate S	Faceplate Selection <sup>1</sup>				
	Mounting Position	Type of Adjustment	Thermometer Cutout	Temperature Scale		
PLT333-1R <sup>2</sup>	Vertical	Knob	Yes	Fahrenheit		
PLT333-3R	Vertical	Concealed	Yes	Fahrenheit		
PLT333-5R	Vertical	Knob	Yes	Celsius		
PLT333-12R	Vertical	Concealed	No	-		

1. Faceplates must be ordered in multiples of ten.

2. Supplied with standard wholesaler models.

T46 Series Fan Coil Thermostats			
Range	Thermostat	40 to 90°F (5 to 30°C)	
	Thermometer	50 to 90°F (10 to 30°C)	
Differential	Mechanical	Approximately 0.7°F (0.4°C)	
	Operating	See next page	
Finish Cover Faceplate	Cover	Almond	
	Faceplate	Gold metallic with dark brown border and lettering	
Mounting		Double gang box, separable mounting plate	
Material	Base	0.050 in. (1 mm) cold rolled steel	
	Cover	0.090 in. (2 mm) high-impact plastic	
Sensing Element		Liquid-filled for positive trouble-free operation	
Shipping Weight	Individual Pack	1 lb (0.45 kg)	
	Overpack of 20 Units	20 lb (9.07 kg)	
Thermometer		Bimetal type for accuracy and clarity, can be field-calibrated	
Wiring Connections		Color coded No. 16 AWG wires, 8 in. (203 mm) long	

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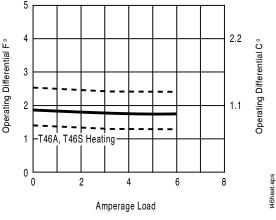


## T46 Series Fan Coil Thermostat (Continued)

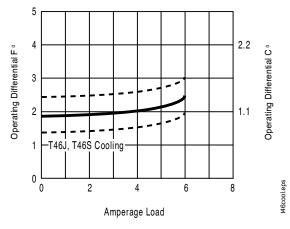
# **Technical Specifications (Continued)**

Electrical Ratings				
Motor Ratings	120 V	208 V	240 V	277 V
T46	System an	d Fan Swite	ches	
AC Full Load A	12.0	6.9	6.0	5.2
AC Locked Rotor A	34.8	19.1	17.4	14.4
AC Non-Inductive A	6.5	6.5	6.5	-
Pilot Duty	125 VA, 24 to 277 VAC			
	T46 Therm	ostat Only		
AC Full Load A	6.0	3.5	3.0	-
AC Locked Rotor A	34.8	19.1	17.4	-
AC Non-Inductive A	6.5	6.5	6.5	-
Pilot Duty	125 VA, 24 to 277 VAC			

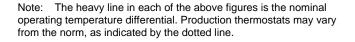
**Operating Differentials** 



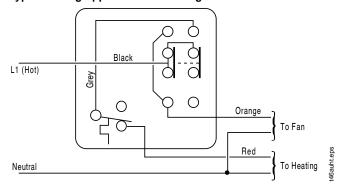
### **Operating Differential for T46A and Heating Side of T46S**



Operating Differential for T46J and Cooling Side of T46S

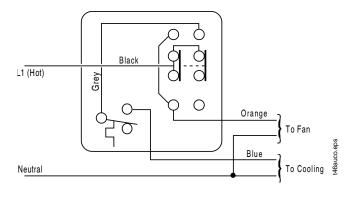


#### **Typical Wiring Application for Heating**

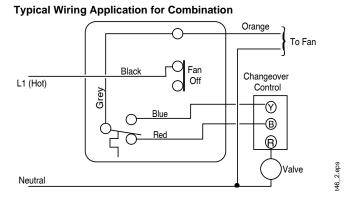


**T46ABH Auto-Off-Fan Selector Switch** with Continuous Fan (Heating Only)

#### **Typical Wiring Application for Cooling**



**T46JBH Auto-Off-Fan Selector Switch** with Continuous Fan (Cooling Only)





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