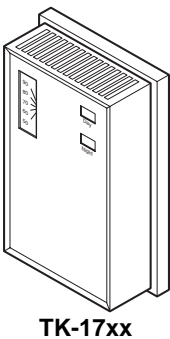
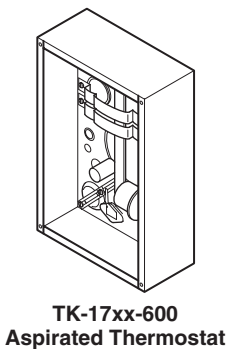


Dual Setpoint, Single Output Room Thermostats

For proportional control of pneumatic-actuated valves and damper actuators to maintain room air temperatures in heating, ventilating, and air conditioning systems.

Features:

- Attractive appearance.
- Branch-line to sensing-element pneumatic feedback for linear, stable operation.
- Available with °F or °C setpoint scales and thermometers.
- Covers supplied with exposed setpoint and thermometer.
- Cover inserts included for:
  - Exposed setpoint only.
  - Blank cover.
- Aspirated versions of certain models available.



Model Chart							
Model No.		15 psig Supply Pressure			20 psig Supply Pressure <sup>a</sup>		
°F	°C <sup>b</sup>	Dial Range <sup>c</sup>	Control Action <sup>d</sup>	Cover Legend	Dial Range <sup>c</sup>	Control Action <sup>d</sup>	Cover Legend
TK-1717 <sup>e</sup>	TK-1717-116	55 to 85°F (13 to 29°C)	Direct	Heat <sup>f</sup>	55 to 85°F (13 to 29°C)	Direct	Cool
TK-1727 <sup>e</sup>	TK-1727-116		Reverse			Reverse	
TK-1731 <sup>e</sup>	TK-1731-116		Reverse			Direct	
TK-1741 <sup>e</sup>	TK-1741-116		Direct			Reverse	
TK-1711 <sup>e</sup>	TK-1711-116		Direct	Day		Direct	Night
TK-1751 <sup>g</sup>	TK-1751-116 <sup>g</sup>		Reverse			Reverse	
TK-1721 <sup>e</sup>	TK-1721-116						
TK-1761 <sup>g</sup>							

<sup>a</sup> 22 psi required if setpoints are more than 20°F apart.

<sup>b</sup> Celsius models not available for wholesale.

<sup>c</sup> Control dial is marked in °F on one side and °C on the other side. Units have built-in stops that can limit high and/or low setting of each dial.

<sup>d</sup> Direct Acting (D.A.) — Increase output pressure on temperature rise.  
Reverse Acting (R.A.) — Decrease output pressure on temperature rise.

<sup>e</sup> These models available in aspirated versions, add -600 to model number.

<sup>f</sup> Use AT-67 series cover plate to reverse heat/cool legends.

<sup>g</sup> Units include a manual override lever for overriding 22 psig (152 kPa) operation and placing control into 15 psig (103 kPa) control mode when unit is supplied with 22 psig (152 kPa). Lever automatically resets when supply pressure is reduced to 15 psig (103 kPa).

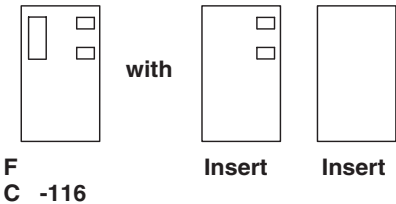


Figure 1 Standard Covers.

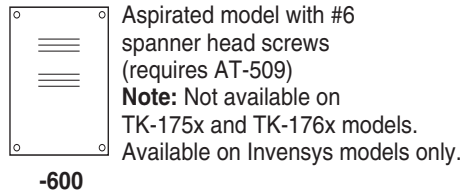
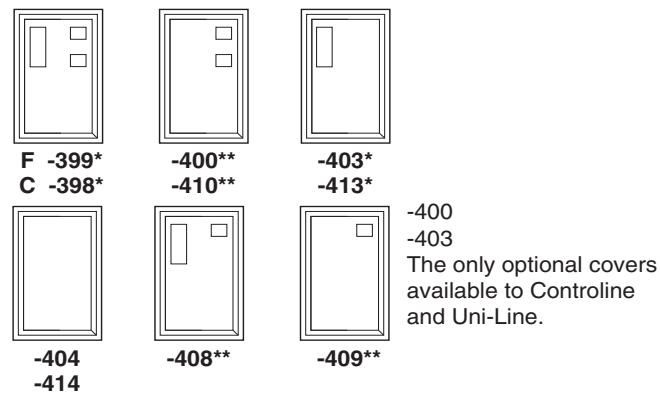


Figure 2 Aspirated Thermostat Cover.



\* Units have external thermometers.  
 \*\* Units have internal setpoint adjustment: setpoint can be seen externally. Knob(s) are provided to modify the unit to external adjustment.

Figure 3 Optional Covers. (For quantities of 24 or more of same part number).

Add “dash number” (-xxx) suffix to base part number for desired option. For metal covers, specify TK2-17xx-xx.

Specifications	
<b>Thermostat</b>	Proportional two pipe type. Two pressure Heating/Cooling or Day/Night thermostats switch between two bimetal sensors.
<b>Sensing element</b>	Two bimetals.
<b>Control dial range</b>	Two independent with stops. Refer to Model Chart.
<b>Throttling range</b>	Independently adjustable for each setpoint dial 2 to 10°F/10 psi change in branch line pressure, factory set at 4°F/10 psi.
<b>Output air signal</b>	0.5 psig (3.4 kPa) to supply air -0.5 psig (-3.4 kPa).
<b>Action</b>	Refer to Model Chart.
<b>Ambient limits</b>	
<b>Shipping</b>	-40 to 150°F (-40 to 65°C). 0 to 98% R.H., non-condensing.
<b>Operating</b>	20 to 115°F (-7 to 46°C). 10 to 98% R.H., non-condensing.
<b>Supply air pressure</b>	Clean, oil free, dry air required (reference EN-123).
<b>Requires</b>	15 and 22 psig (103 and 152 kPa) dual pressure. Refer to Model Chart.
<b>Maximum</b>	30 psig (207 kPa).

# TK-17xx Series

## Specifications (Continued)

### Air connections

**Main (black)** 5/32 in. dia. spring reinforced plastic tube.

**Branch (white)** 5/32 in. dia. spring reinforced plastic tube.

### Air consumption for sizing air compressor

**TK-17xx** 13.8 scim (3.8 mL/s).

**TK-17xx-600 (Aspirated models)** 41.5 scim (11.3 mL/s).

### Air capacity for sizing air mains

**TK-17xx** 80 scim (21.8 mL/s).

**TK-17xx-600 (Aspirated models)** 120 scim (32.7 mL/s).

### Cover

Beige plastic with brushed bronze metal inserts as standard except aspirated models. Aspirated models have brushed stainless steel covers.

### Mounting

Upright position on wall.

### Dimensions

**TK-17xx** 4-3/8 H x 2-3/4 W x 1-5/8 D in. (111 x 70 x 43 mm).

**TK-17xx-600 (Aspirated models)** Wall box: 5 H x 3-1/2 W x 2-1/2 D in. (127 x 89 x 64 mm).  
Cover: 5-1/2 H x 4 W in. (140 x 102 mm).

## Accessories

### Model No.

AT-65 Series

AT-67

AT-504

AT-505

AT-506

AT-509

AT-536

AT-546

AT-533-101

AT-533-127

AT-533-129

TOOL-015

TOOL-080-1

TOOL-095-1

### Description

Cover inserts.

Brushed bronze cover plates (cooling/heating).

Plaster hole cover.

Surface mounting base.

Pneumatic wall box fitting.

Wall box required for aspirated thermostats.

Pneumatic wall thermostat conversion kit.

Auxiliary mounting base.

Adapter 1/4 in. plastic to 5/32 in. plastic.

Adapter 3/16 in. copper or 1/4 in. copper with 1/4 in. solder coupling (not included) to 5/32 in. plastic.

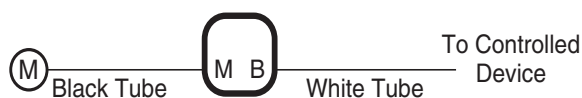
5/32" x 5/32" barbed brass connector.

Spanner head driver for #6 spanner head screws.

Calibration tool.

Pneumatic calibration tool kit.

## Typical Applications



TK-17xx Series

Figure 4 Typical Application.