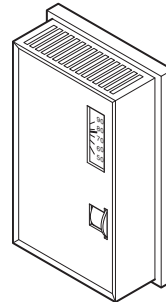


Single Setpoint Room Thermostats

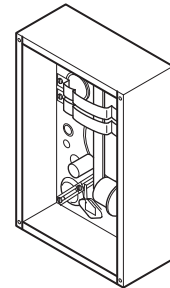
For proportional temperature control of pneumatic valves and damper actuators to maintain room air temperatures in heating, ventilating, and air conditioning systems.

Features:

- Branch-line to sensing-element pneumatic feedback for linear, stable operation.
- Plastic cover supplied with exposed setpoint and thermometer.
- Cover inserts included for:
 - Exposed setpoint only.
 - Blank face plate with logo.



TK-1xx1



TK-1xxx-600 Aspirated Thermostat
(Shown in aspirated box without cover)

Model Chart			
Model No.	Dial Markings ^a	Control Action ^b Supply Pressure	Type Thermostat
TK-1001	55 to 85°F	Direct Acting	Two pipe
TK-1001-116	13 to 29°C		
TK-1001-600	55 to 85°F		
TK-1101	55 to 85°F	Reverse Acting	
TK-1101-116	13 to 29°C		
TK-1101-600	55 to 85°F		
TK-1201	55 to 85°F	15 psig Reverse Acting 20 psig Direct Acting	
TK-1281	55 to 85°F	20 psig Reverse Acting 15 psig Direct Acting	
TK-1301 ^c	55 to 85°F	Direct Acting 15 psig day – 20 psig night	Two pipe with manual override
TK-1301-116	13 to 29°C		
TK-1381	55 to 85°F	Reverse Acting 15 psig day – 20 psig night	
TK-1601 ^{cd}	55 to 85°F	Direct Acting 15 psig day – 20 psig night	Three pipe with manual override
TK-5001	55 to 85°F	Direct Acting	Single Pipe
TK-5001-116	13 to 29°C		
TK-5101	55 to 85°F	Reverse Acting	
TK-5101-116	13 to 29°C		

^a Dial stop pins included to limit dual range on all units.

^b Direct Acting (D.A.) increases output pressure on temperature rise. Reverse Acting (R.A.) decreases output pressure on temperature rise.

^c A manual lever is provided to change the thermostat to "Day" when the system is on "Night". The lever can be used to return to "Night" or the next cycle will return the thermostat to normal operation.

^d Has second white plastic tube to pass full line pressure (20 psi) at night and 0 psi at day. Used to actuate items such as pressure electric switches.

TK-1xxx Series, TK-5xxx Series

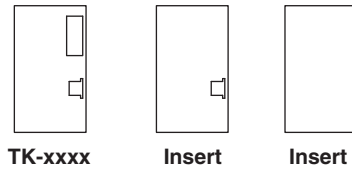


Figure 1 Cover.

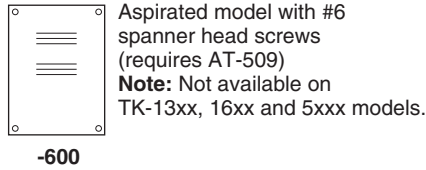


Figure 2 Aspirated Thermostat Cover.

Specifications

Thermostat	Proportional type.
Sensing element	Bimetal.
Night setback	To 20°F (11°C) below day setpoint for Day/Night heating models.
Night setup	To 20°F (11°C) above day setpoint for Day/Night cooling models.
Control dial range	Refer to Model Chart.
Throttling Range	Adjustable 2 to 10°F/10 psi, factory set at 4°F/10 psi.
Output air signal	0.5 psig to supply air pressure -0.5 psig.
Action	Refer to Model Chart.
Ambient limits	
Shipping	-40 to 150°F (-40 to 65°C). 0 to 98% RH, non-condensing.
Operating	40 to 150°F (4 to 65°C). 10 to 98% RH, non-condensing.
Supply air pressure	Clean, oil free, dry air required (refer to EN-123).
Nominal	Refer to Model Chart.
Maximum	30 psig (207 kPa).
Air connections	
Main (black)	5/32 in. dia. spring reinforced plastic tubing.
Branch (white)	5/32 in. dia. spring reinforced plastic tubing.
Air consumption for sizing air compressor	
TK-1001, 1101, 12x1, 13x1	13.8 scim (3.8 mL/s).
Air capacity for sizing air mains	
TK-1001, 1101, 12x1, 13x1,	16 scim (4.4 mL/s).
TK-16x1	32 scim (8.8 mL/s).
Cover	Beige plastic.
Mounting	Upright position on wall.
Dimensions	4-3/8 H x 2-3/4 W x 1-5/8 D in. (111 x 70 x 43 mm).

Accessories

Part Number	Description
20-944	Restrictor tee, copper tubing.
21-038	Restrictor tee, polyethylene tubing.
21-153	In-line restrictor.
AT-11-600	Aspirating conversion kit.
AT-11-1	Replacement kit fittings.
AT-11-500	Fahrenheit cover kit.
AT-11-501	Celcius cover kit.
AT-12-500	Fahrenheit cover kit for TK-13xx and TK-16xx.
AT-12-501	Celcius cover kit for TK-13xx and TK-16xx.
AT-101	Lock cover kit.
AT-104 ^a	Dial stop pins.
AT-504	Plaster hole cover (small).
AT-505	Surface mounting base.
AT-506	Pneumatic wall box fitting (two tubes for TK-100x and 110x).
AT-533-101	Adaptor 1/4 in. plastic to 5/32 in. plastic.
AT-533-127	Adaptor 3/16 in. copper or 1/4 in. copper with 1/4 in. solder coupling (not included) to 5/32 in. plastic.
AT-536	Pneumatic wall thermostat conversion kit.
AT-546	Auxiliary mounting base.
TOOL-015	Spanner head driver to #6 spanner head screws.
TOOL-095-1	Pneumatic calibration tool kit.
Maintenance Parts	
APNT-011-11	Black tubing 9 inch.
APNT-011-21	White tubing 9 inch.
APNT-093-30	Tubing spring.
AT-520-11	Relay repair kit.
AT-512-10	Replacement auxiliary nozzle kit.
AT-527	Pilot restrictor kit for aspirated (-600) models.
AT-528	Pilot restrictor kit for non-aspirated models.
PKG-1019	Mounting hardware kit.

^a All thermostats are shipped with two dial stop pins.

Typical Applications

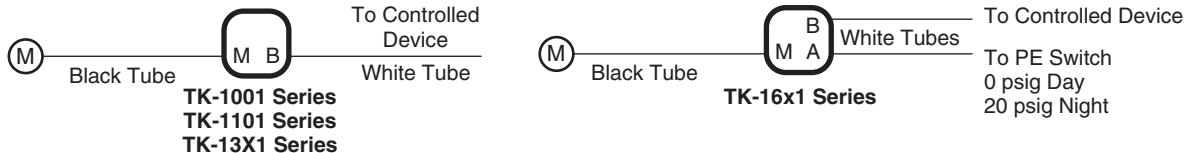


Figure 3 Two Pipe (Relay) Type.

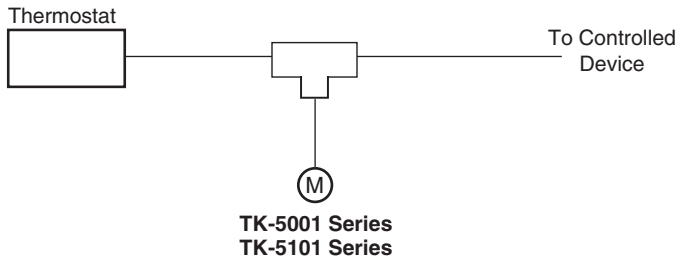


Figure 4 Single Pipe Type.