

# Pneumatic Thermostats

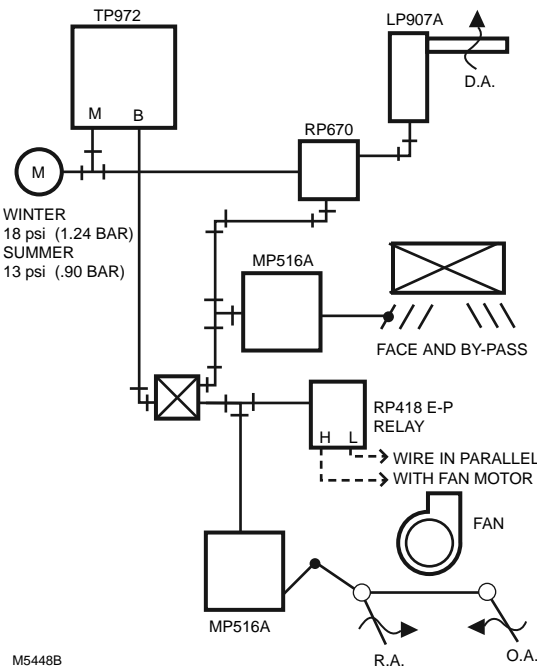
## LP907 Airstream Insertion Pneumatic Thermostat



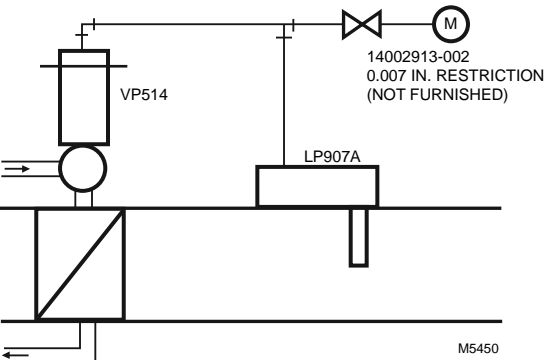
One-pipe, single setpoint, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Commonly used as discharge controllers for unit ventilators.

- Rod and tube insertion sensing element.
- Wide throttling range.
- Gage tee and tank valve facilitate checking line pressures.

Typical Heating/Cooling Application



Typical Duct Mounted Application



**Application Type:** Low Limit controller  
**Dimensions, Approximate:** 5 7/16 in. high x 1 1/16 in. wide x 2 1/4 in. deep (138 mm high x 27 mm wide x 57 mm deep)  
**Airflow Usage:** 0.011 scfm (5.2 mL/s)  
**Air Connections:** Barb fittings 1/4 in. (6 mm) poly tubing  
**Mounting:** Insertion with locknut on boss of insertion shank  
**Setpoint Temperature Range:** 40 F to 140 F (4 C to 60)  
**Operating Temperature:** 40 F to 140 F (4 C to 60 C)  
**Storage Temperature:** 150 F maximum (66 C maximum)  
**Remote Bulb:** Yes  
**Sensor Element:** Invar rod and seamless brass tube, 18 3/4 in. (476 mm) long and 11/32 in. (9 mm) diameter  
**Maximum Operating Pressure:** 25 psi (170 kPa)  
**Includes:** Fittings for mounting on sheet metal duct. Order restrictor separately.

**Accessories:**  
**14002913-002** .005 in. Blue Filter Restriction Assembly; Inlet: 1/4 in., Outlets: 5/32 in. and 5/32 in.; Order in Quantities of 10  
**14002913-003** External Restriction Assembly. 0.007 in. Restriction, Red, Inlet 1/4 in; Outlet 1/4 in. and 5/32 in.  
**CCT2085** Pneumatic Fitting - Gauge Adapter fits any standard 1/8 in. NPT gauge,

Product Number	Action	Number of Pipes	Setpoint	Capacity	Throttling Range		Sensor Element
					(F)	(C)	
LP907A1002	Direct Acting	1	Single	Low	10 F to 70 F	6 C to 39 C	Invar rod and seamless brass tube, 18 3/4 in. (476 mm) long and 11/32 in. (9 mm) diameter
LP907A1044	Direct Acting	1	Single	Low	5 F to 35 F	3 C to 19 C	Invar rod and seamless brass tube, 18 3/4 in. (476 mm) long and 11/32 in. (9 mm) diameter

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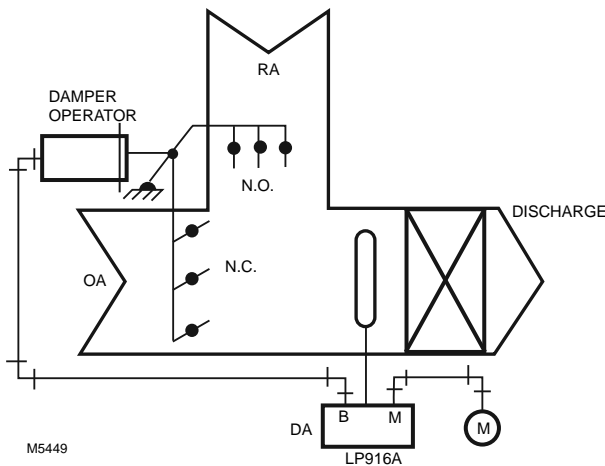
## LP916 Pneumatic Thermostat



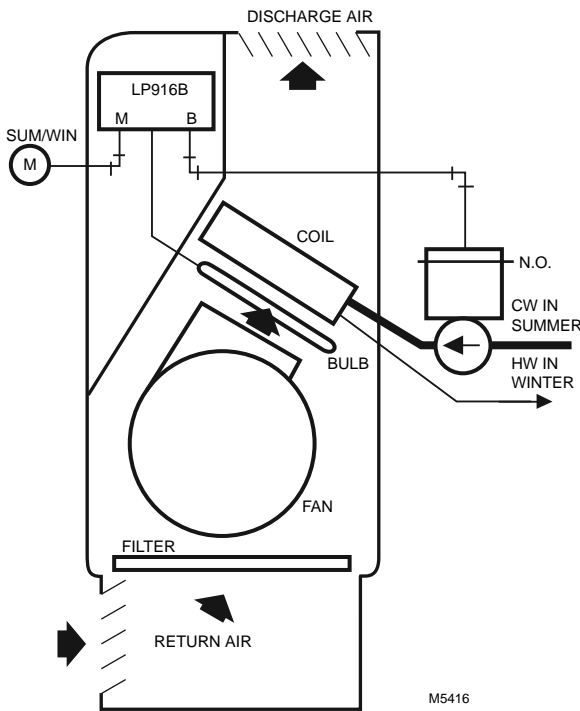
Two-pipe, single temperature, unit mounted, remote bulb pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems.

- Liquid filled remote bulb.
- Direct Acting (DA), Reverse Acting (RA) and Heating/Cooling (DA/RA) models are available.

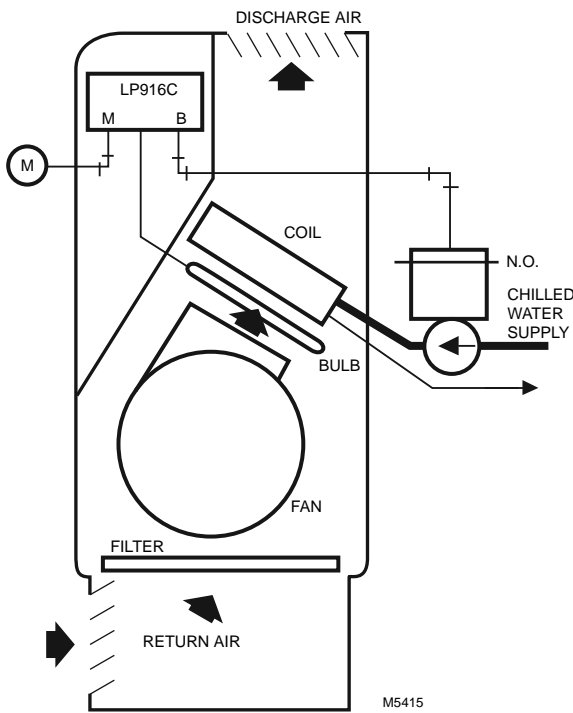
Typical LP916A Mixed Air Application



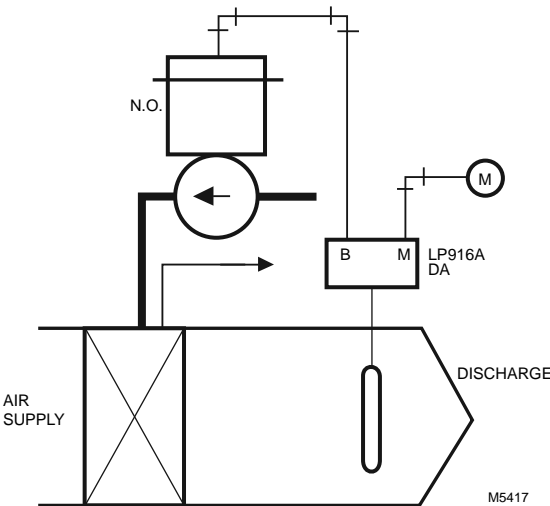
Typical LP916B Fan Coil Application, Heating/Cooling with Seasonal Changeover



Typical LP916C Fan Coil Application, Cooling Only



Typical LP916A Duct Mounted Heating Application



# Pneumatic Thermostats

**Application Type:** Unit Ventilator

**Dimensions, Approximate:** 4 3/4 in. high x 3 3/4 in. wide x 3 in. deep  
(121 mm high x 95 mm wide x 76 mm deep)

**Airflow Usage:** 0.022 scfm (10.4 mL/s) with 0.007 in. restriction

**Air Connections:** Barb fittings 1/4 in. (6 mm)

**Mounting:** In compartment of a unit ventilator

**Number of Pipes:** 2

**Setpoint:** Single

**Operating Temperature:** 135 F maximum (57 C maximum)

**Storage Temperature:** 150 F maximum (66 C maximum)

**Remote Bulb:** Yes

**Sensor Element:** Bulb 1/2 x 5 7/8 in., capillary 36 in. (914 mm) long

**Maximum Operating Pressure:** 25 psi (170 kPa)

**Accessories:**

**107324A** Capillary Holder Assembly for duct insertion, 8 3/8 in. long

**Replacement Parts:**

**14003113-002** Repair kit containing 0.007 in. restrictor plate, filters, and gaskets

Product Number	Action	Sensor Element	Setpoint Temperature Range		Changeover		Throttling Range		Scale Markings	Includes	Comments
			(F)	(C)	(psi)	(kPa)	(F)	(C)			
LP916A1019	Direct Acting	Bulb 1/2 x 5 7/8 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	—	—	3.5 F	2 C	Warmer/Cooler	Integral Mounting Bracket and 304528A Bag Assembly (mounting hardware). Order bulb hangers (316297-00021) separately.	—
LP916A1134	Direct Acting	Bulb 3/8 x 7 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	—	—	3.5 F	2 C	Warmer/Cooler	Integral Mounting Bracket, (2) 316297-00021 Bulb Hangers and 304528A Bag Assembly (mounting hardware).	—
LP916A1175	Direct Acting	Bulb 3/8 x 7 in., capillary 36 in. (914 mm) long	40 F to 80 F	4 C to 26 C	—	—	7 F	13 C	40 F to 80 F	Integral Mounting Bracket, (2) 316297-00021 Bulb Hangers and 304528A Bag Assembly (mounting hardware).	—
LP916B1017	Direct Acting Heating, Reverse Acting Cooling	Bulb 1/2 x 5 7/8 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	3.5 F	2 C	Warmer/Cooler	Integral Mounting Bracket and 304528A Bag Assembly (mounting hardware). Order bulb hangers (316297-00021) separately.	—
LP916B1058	Direct Acting Heating, Reverse Acting Cooling	Bulb 1/2 x 5 7/8 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	Heat 18 psi, Cool 9 psi	Heat 124 kPa, Cool 62 kPa	3.5 F	2 C	Warmer/Cooler	Integral Mounting Bracket and 304528A Bag Assembly (mounting hardware). Order bulb hangers (316297-00021) separately.	—
LP916B1074	Direct Acting Heating, Reverse Acting Cooling	Bulb 3/8 x 7 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	3.5 F	2 C	Warmer/Cooler	Order Mounting Bracket, Knob, Bulb Hangers, and Scale Plate separately.	—
LP916B1082	Direct Acting Heating, Reverse Acting Cooling	Bulb 3/8 x 7 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	3.5 F	2 C	Warmer/Cooler	Integral Mounting Bracket, (2) 316297-00021 Bulb Hangers and 304528A Bag Assembly (mounting hardware).	New installation model
LP916B1090	Direct Acting Heating, Reverse Acting Cooling	Bulb 3/8 x 9 in., capillary 36 in. (914 mm) long	65 F to 85 F	19 C to 30 C	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	3.5 F	2 C	Warmer/Cooler	Integral Mounting Bracket, (2) 316297-00021 Bulb Hangers and 304528A Bag Assembly (mounting hardware).	—
LP916C1023	Reverse Acting	Bulb 3/8 x 9 in., capillary 36 in. (914 mm) long	60 F to 80 F	15 C to 26 C	—	—	3.5 F	2 C	60 F to 80 F	Integral Mounting Bracket, (2) 316297-00021 Bulb Hangers and 304528A Bag Assembly (mounting hardware).	—

## TP9600 Pneumatic Thermostat



**Application Type:** Wall Thermostat

**Dimensions, Approximate:** 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep  
(83 mm high x 51 mm wide x 41 mm deep)

**Airflow Usage:** 0.011 scfm (5.2 mL/s)

**Air Connections:** Barb fittings 5/32 in. (4 mm)

**Mounting:** Vertical Wall Mounting

**Operating Temperature:** 50 F to 100 F (10 C to 38 C)

**Storage Temperature:** 150 F maximum (66 C maximum)

**Throttling Range:** 2 F to 10 F (1 C to 5 C)

**Sensor Element:** Bimetal

**Maximum Operating Pressure:** 25 psi (170 kPa)

**Accessories:**

**305965** 1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with  $\pm 4\%$  accuracy

**14002362-001** Duct Sampling Chamber

**14002430-001** Thermostat Guard

**14002913-001** .005 in. Blue Filter Restriction Assembly; Inlet: 1/4 in., Outlets: 1/4 in. and 5/32 in.; Order in Quantities of 10

**14002913-004** External Restriction Assembly. 0.005 in. Restriction, Blue Inlet 1/4 in.; Outlet 5/32 in. and 5/32 in.

Pneumatic thermostat for proportional control of pneumatic valves and actuators with one- or two-pipe systems. Available with two cover options, the TP9600 is not only affordable and easy to install, but it controls temperature with the reliability that only Honeywell can provide.

- TP9600 delivers the Honeywell TP970s unparalleled sensing and control.
- Redesigned models fit your high-volume pneumatic applications.
- Backplate mounts quickly.
- Thermostat snaps onto backplate.
- Cover is mounted and locked into place with concealed setscrews.
- Attractive Euro-contoured design comes with choice of two cover options.
- Neutral taupe color blends with today's commercial interiors.
- Adapter kits are available to retrofit most pneumatic jobs.
- Branch line capacity Low for TP9630 and TP9633 Branch line capacity High for TP9600, TP9610, TP9603, TP9620.

**14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations

**14004439-001** Setpoint Extension

**14004911-001** Taupe Convertastat wall plate with 2 screws

**AK3863** Honeywell Thermostat Tool Kit, TP970/TP900

**CCT729A** Gauge Adapter for Calibration. Add 305965 0 to 30 psi gauge for Complete Tool.

**CCT735A** Thermostat Calibration Tool includes Allen wrench for cover installation.

**Replacement Parts:**

**14001865-001** Filter Cartridge Assembly

**14002053-001** Back Plate Assembly

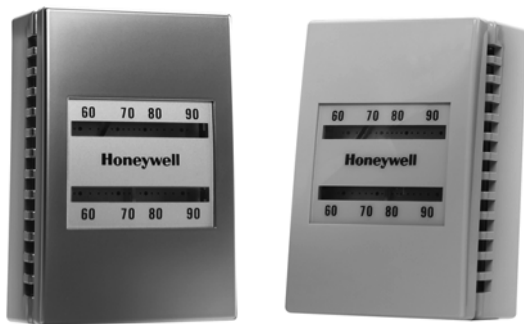
**14002573-001** Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972

**14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations

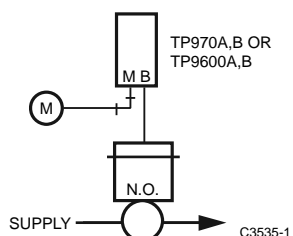
Product Number	Action	Number of Pipes	Setpoint	Setpoint Temperature Range		Changeover		Includes
				(F)	(C)	(psi)	(kPa)	
TP9600A1007	Direct Acting	2	Single	59 F to 90 F	15 C to 32 C	—	—	Cover, Setpoint, and Thermometer are Visible
TP9600B1006	Reverse Acting	2	Single	59 F to 90 F	15 C to 32 C	—	—	Cover, Setpoint, and Thermometer are Visible
TP9603A1001	Direct Acting	2	Single	59 F to 90 F	15 C to 32 C	—	—	Blank Cover, Setpoint, and Thermometer are Not Visible
TP9610A1006	Direct Acting	2	Day/Night	Day: 59 F to 90 F, Night: 50 F to 75 F	Day: 15 C to 30 C, Night: 10 C to 27 C	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	Cover, Setpoint, and Thermometer are Visible
TP9620A1005	Direct Acting Heating, Reverse Acting Cooling	2	Single	60 F to 90 F	16 C to 32 C	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	Cover, Setpoint, and Thermometer are Visible
TP9630A1004	Direct Acting	1 or 2	Single	60 F to 90 F	16 C to 32 C	—	—	Cover, Setpoint, and Thermometer are Visible
TP9630B1003	Reverse Acting	1 or 2	Single	60 F to 90 F	16 C to 32 C	—	—	Cover, Setpoint, and Thermometer are Visible

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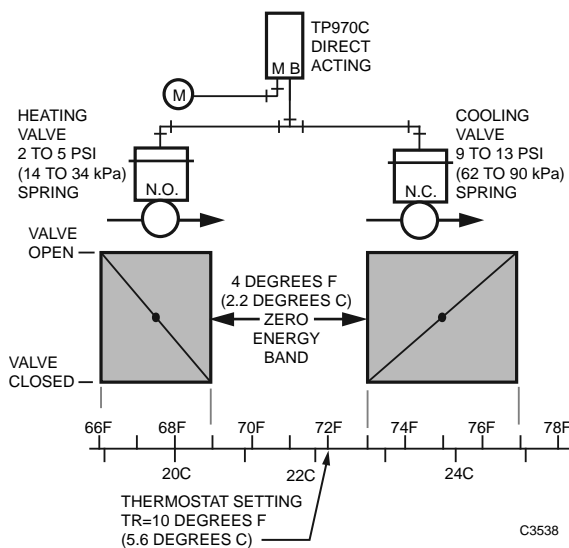
## TP970 Pneumatic Thermostat



### Typical Standard Throttling Range Piping



### Typical Wide Throttling Range Piping



**Application Type:** Heating

**Dimensions, Approximate:** 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep  
(83 mm high x 51 mm wide x 41 mm deep)

**Airflow Usage:** 0.011 scfm (5.2 mL/s)

**Mounting:** Wall

**Two-pipe, single setpoint, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Replacement kits are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell two-pipe pneumatic thermostats.**

- Honeywell's best pneumatic thermostat-TP970 series.
- Shock-resistant, suspension-mounted thermostats provide dependable performance and responsiveness year in and year out.
- Pilot operated for high capacity.
- Direct Acting (DA) and Reverse Acting (RA) models are available.
- Wide throttling range models for Zero Energy Band (ZEB) operation are available.
- Adapter plate in Convertastat® and Modernization kits covers existing thermostat wall mark.
- Backplate has molded air connections-no separate fittings needed.
- Universal locking cover with satin chrome finish and horizontal, vertical, or blank window options.
- Typical Wide Throttling Range Application.

**Number of Pipes:** 2

**Setpoint:** Single

**Operating Temperature:** 100 F maximum

**Storage Temperature:** 150 F maximum (66 C maximum)

**Sensor Element:** Bimetal

**Maximum Operating Pressure:** 25 psi (170 kPa)

### Accessories:

**305965** 1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with  $\pm 4\%$  accuracy

**14002362-001** Duct Sampling Chamber

**14002430-001** Thermostat Guard

**14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations

**14004439-001** Setpoint Extension

**14004447-001** Setpoint Cam Assembly for TP970A1004, A1012, A1020, A1038, A1046, A1053, A1095, A2004, A2012, A2020, A2038, A2053, A2095; TP970C; TP972A1143, A2143; TP973A1001, A1019, A1127

**14004447-002** Setpoint Cam Assembly for TP970B1002, B1010, B1028, B1036, B2002, B2010, B2028, B2036; TP970D; TP972A1002, A1010, A1028, A1044, A2002, A2010, A2028, A2044; TP973B1009, B1017, B1025, B1108

**114004447-005** Setpoint Cam Assembly for TP970B1044; TP972A1051, A1101

**14004459-001** Repair kit consisting of a thermometer assembly, a thermometer post and a 60 to 90F aluminum scaleplate

**AK3863** Honeywell Thermostat Tool Kit, TP970/TP900

**CCT729A** Gauge Adapter for Calibration. Add 305965 0 to 30 psi gauge for Complete Tool.

**CCT735A** Thermostat Calibration Tool includes Allen wrench for cover installation.

### Replacement Parts:

**14001865-001** Filter Cartridge Assembly

**14002053-001** Back Plate Assembly

**14002573-001** Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972

**14004459-001** Repair kit consisting of a thermometer assembly, a thermometer post and a 60 to 90F aluminum scaleplate

# Pneumatic Thermostats

Product Number	Action	Setpoint Temperature Range		Throttling Range		Includes	Comments**
		(F)	(C)	(F)	(C)		
TP970A2004	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Order Cover Separately	—
TP970A2012	Direct Acting	40 F to 70 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Order Cover Separately	—
TP970A2020	Direct Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Order Cover Separately	—
TP970A2038	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, large wall plate and satin chrome cover.	Modernization kit used to convert older Honeywell Thermostats.
TP970A2145	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970A2234	Direct Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970A2242	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, small wall plate and beige cover.	Convertastat Kit
TP970A2259	Direct Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat and satin chrome cover.	Tradeline Kit
TP970B2002	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Order Cover Separately	—
TP970B2010	Reverse Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Order Cover Separately	—
TP970B2077	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970B2150	Reverse Acting		15 C to 30 C	33 F to 41 F (factory set 35 C)	1 C to 5 C (factory set 2 C)	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP970B2166	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	1 C to 5 C (factory set 2 C)	Thermostat, small wall plate and beige cover.	Convertastat Kit
TP970B2182	Reverse Acting	59 F to 90 F		2 F to 10 F (factory set 4 F)	-16 C to -12 C (factory set -15 C)	Thermostat and satin chrome cover.	Tradeline Kit
TP970C2000	Direct Acting	59 F to 90 F		5 F to 25 F	-15 C to -3 C	Order Cover Separately	Wide Throttling Range 5-25 F

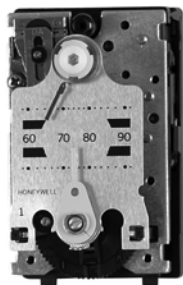
\*\*A **Tradeline Kit** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) for new installations or to convert newer, small size Honeywell or competitor thermostat, not requiring a wall plate adapter.

A **Convertastat Kit™** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a small Universal Wall Plate Adapter to convert newer, small size Honeywell or competitor thermostats.

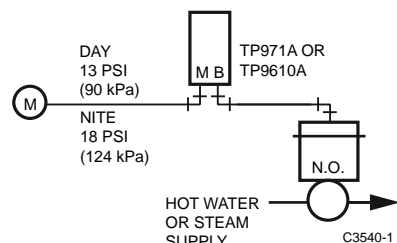
A **Modernization Kit** includes a TP970 Series thermostat with Satin Chrome Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a large Universal Wall Plate Adapter to convert older thermostats.

# Pneumatic Thermostats

## TP971 Pneumatic Day/Night Thermostat



### TP971 Typical Piping



**Application Type:** Wall Thermostat, Day/Night operation  
**Dimensions, Approximate:** 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep  
 (83 mm high x 51 mm wide x 41 mm deep)  
**Airflow Usage:** 0.011 scfm (5.2 mL/s)  
**Mounting:** Wall  
**Setpoint:** Day/Night  
**Operating Temperature:** 100 F maximum  
**Storage Temperature:** 150 F maximum (66 C maximum)  
**Sensor Element:** Bimetal  
**Maximum Operating Pressure:** 25 psi (170 kPa)

Pneumatic thermostat with night setback used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Replacement kits are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell two-pipe pneumatic thermostats.

- Durable TP970 series thermostat Pilot operated for high capacity.
- Direct Acting (DA) and Reverse Acting (RA) models are available.
- Three-pipe thermostats are available for unit ventilator applications where the outdoor damper must operate when the thermostat is manually set to day operation.
- Adapter plate in thermostat kits covers existing thermostat watermark.
- Backplate has molded air connections—no separate fittings needed.
- Universal Locking cover with satin chrome finish and horizontal, vertical, or blank window options—other covers available.

### Accessories:

**305965** 1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with  $\pm 4\%$  accuracy  
**14002362-001** Duct Sampling Chamber  
**14002430-001** Thermostat Guard  
**14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations  
**14004439-001** Setpoint Extension  
**14004447-003** Setpoint Cam Assembly for TP971A, C, D; TP972A1168, A2168, A2176  
**AK3863** Honeywell Thermostat Tool Kit, TP970/TP900  
**CCT729A** Gauge Adapter for Calibration. Add 305965 0 to 30 psi gauge for Complete Tool.  
**CCT735A** Thermostat Calibration Tool includes Allen wrench for cover installation.

### Replacement Parts:

**14001865-001** Filter Cartridge Assembly  
**14002053-001** Back Plate Assembly  
**14002573-001** Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972

Product Number	Action	Number of Pipes	Setpoint Temperature Range		Changeover		Throttling Range		Includes	Comments **
			(F)	(C)	(psi)	(kPa)	(F)	(C)		
TP971A2003	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F	—	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2011	Direct Acting Heating, two temp.	2	—	Day: 15 C to 30 C, Night: 10 C to 27 C	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2029	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F	—	Day 16 psi, Night 21 psi	Day 110 kPa, Night 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2052	Direct Acting Heating, two temp.	2	—	Day: 15 C to 30 C, Night: 10 C to 27 C	Day 16 psi, Night 21 psi	Day 110 kPa, 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2086	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F	—	Day 20 psi, Night 25 psi	Day 137 kPa, Night 172 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971A2102	Direct Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F	—	Day 13 psi, Night 18 psi or 16-20 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Thermostat, small wall plate and satin chrome cover.	Convertastat Kit
TP971B2001	Reverse Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F	—	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—

# Pneumatic Thermostats

Product Number	Action	Number of Pipes	Setpoint Temperature Range		Changeover		Throttling Range		Includes	Comments **
			(F)	(C)	(psi)	(kPa)	(F)	(C)		
TP971B2019	Reverse Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 16 psi, Night 21 psi	Day 110 kPa, Night 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971B2043	Reverse Acting Heating, two temp.	2	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 20 psi, Night 25 psi	Day 137 kPa, Night 172 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	—
TP971C2009	Direct Acting Heating, two temp.	3	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	Has secondary branch line
TP971C2017	Direct Acting Heating, two temp.	3		Day: 15 C to 30 C, Night: 10 C to 27 C	Day 13 psi, Night 18 psi	Day 90 kPa, Night 124 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	Has secondary branch line
TP971C2025	Direct Acting Heating, two temp.	3	Day: 59 F to 90 F, Night: 50 F to 80 F		Day 16 psi, Night 21 psi	Day 110 kPa, Night 144 kPa	2 F to 10 F	1 C to 5 C	Order Cover Separately	Has secondary branch line

\*\*A **Tradeline Kit** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) for new installations or to convert newer, small size Honeywell or competitor thermostat, not requiring a wall plate adapter.

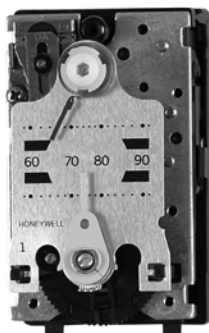
A **Convertastat Kit™** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a small Universal Wall Plate Adapter to convert newer, small size Honeywell or competitor thermostats.

A **Modernization Kit** includes a TP970 Series thermostat with Satin Chrome Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a large Universal Wall Plate Adapter to convert older thermostats.

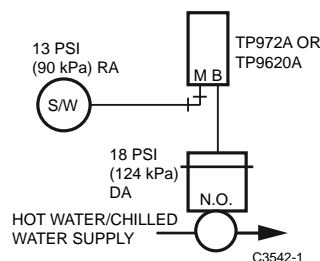


# Pneumatic Thermostats

## TP972 Pneumatic Heating/Cooling Thermostat



### TP972 Typical Piping



**Application Type:** Wall Thermostat, Heat/Cool Operation  
**Dimensions, Approximate:** 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep  
(83 mm high x 51 mm wide x 41 mm deep)  
**Action:** Direct acting heating, reverse acting cooling  
**Airflow Usage:** 0.011 scfm (5.2 mL/s)  
**Mounting:** Wall  
**Operating Temperature:** 100 F maximum  
**Storage Temperature:** 150 F maximum (66 C maximum)  
**Sensor Element:** Bimetal  
**Maximum Operating Pressure:** 25 psi (170 kPa)  
**Throttling Range:** 2F to 10 F (1 C to 5 C)

### Accessories:

**305965** 1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with  $\pm 4\%$  accuracy  
**14002362-001** Duct Sampling Chamber

Two-pipe, one- or two-temperature, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Replacement kits are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell two-pipe pneumatic thermostats.

- Durable TP970 Series Thermostat. Pilot operated for high capacity.
- Two-temperature energy conservation model available.
- Adapter plate in Convertastat® kits covers existing thermostat wall mark.
- Backplate has molded air connections-no separate fittings needed.
- Universal locking cover with satin chrome finish and horizontal, vertical, or blank window options with Tradeline model-other covers available.

### 14002430-001 Thermostat Guard

**14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations

### 14004439-001 Setpoint Extension

**14004447-001** Setpoint Cam Assembly for TP970A1004, A1012, A1020, A1038, A1046, A1053, A1095, A2004, A2012, A2020, A2038, A2053, A2095; TP970C; TP972A1143, A2143; TP973A1001, A1019, A1127

**14004447-002** Setpoint Cam Assembly for TP970B1002, B1010, B1028, B1036, B2002, B2010, B2028, B2036; TP970D; TP972A1002, A1010, A1028, A1044, A2002, A2010, A2028, A2044; TP973B1009, B1017, B1025, B1108

**14004447-003** Setpoint Cam Assembly for TP971A, C, D; TP972A1168, A2168, A2176

**14004447-005** Setpoint Cam Assembly for TP970B1044; TP972A1051, A1101

**AK3863** Honeywell Thermostat Tool Kit, TP970/TP900

**CCT729A** Gauge Adapter for Calibration. Add 305965 0 to 30 psi gauge for Complete Tool.

**CCT735A** Thermostat Calibration Tool includes Allen wrench for cover installation.

### Replacement Parts:

**14001865-001** Filter Cartridge Assembly

**14002573-001** Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972

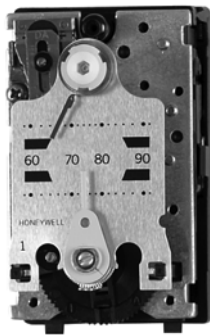
Product Number	Number of Pipes	Set-point	Setpoint Temperature Range		Changeover		Includes	Comments
			(F)	(C)	(psi)	(kPa)		
TP972A2002	2	Single	59 F to 90 F	—	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	Order Cover Separately	—
TP972A2010	2	Single	—	15 C to 30 C	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	Order Cover Separately	—
TP972A2036	2	Dual	Heating 50 F to 75 F, Cooling 60 F to 90 F	—	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	Energy Conservation Model, Order Cover Separately	Two concealed setpoint knobs
TP972A2143	2	Single	59 F to 90 F	—	Heat 14 psi, Cool 19 psi	Heat 96 kPa, Cool 131 kPa	Order Cover Separately	—
TP972A2192	2	Single	59 F to 90 F	—	Heat 18 psi, Cool 13 psi	Heat 124 kPa, Cool 90 kPa	Thermostat, small wall plate and satin chrome cover	Convertastat Kit

\*\*A **Tradeline Kit** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) for new installations or to convert newer, small size Honeywell or competitor thermostat, not requiring a wall plate adapter.

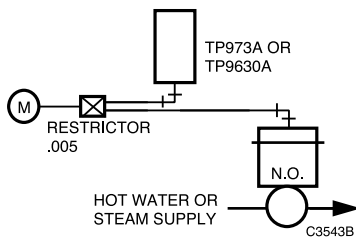
A **Convertastat Kit™** includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a small Universal Wall Plate Adapter to convert newer, small size Honeywell or competitor thermostats.

A **Modernization Kit** includes a TP970 Series thermostat with Satin Chrome Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a large Universal Wall Plate Adapter to convert older thermostats.

## TP973 Pneumatic Thermostat



### TP973 Typical Piping (One-pipe)



**Application Type:** Wall Thermostat, Single Temperature  
**Dimensions, Approximate:** 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep  
(83 mm high x 51 mm wide x 41 mm deep)  
**Airflow Usage:** 0.011 scfm (5.2 mL/s)  
**Mounting:** Wall  
**Number of Pipes:** 1 or 2  
**Setpoint:** Single  
**Operating Temperature:** 100 F  
**Storage Temperature:** 150 F maximum (66 C maximum)  
**Sensor Element:** Bimetal  
**Maximum Operating Pressure:** 25 psi (170 kPa)

**Accessories:**  
**305965** 1-1/2 in. diameter, 1/8 NPT center stem back mount Pressure Indicating gauge (0 to 30 psi scale) with  $\pm 4\%$  accuracy  
**14002362-001** Duct Sampling Chamber  
**14002430-001** Thermostat Guard  
**14002913-004** External Restriction Assembly. 0.005 in. Restriction, Blue Inlet 1/4 in; Outlet 5/32 in. and 5/32 in.

- One- or two-pipe, single temperature, low capacity, pneumatic thermostat used to provide proportional control of pneumatic valves and damper actuators in heating and air conditioning systems. Replacement kits are available for Johnson, Powers, Robertshaw, Barber-Colman, and older Honeywell pneumatic thermostats.
- Durable TP970 Series Thermostat. Direct Acting (DA) and Reverse Acting (RA) models are available.
  - Backplate has molded air connections-no separate fittings needed.
  - Universal locking cover with satin chrome finish and horizontal, vertical, or blank window options available.
  - Other Covers Available.
  - Low capacity thermostat.
  - Built in restrictor for two-pipe applications.

- 14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations  
**14004439-001** Setpoint Extension  
**14004447-001** Setpoint Cam Assembly for TP970A1004, A1012, A1020, A1038, A1046, A1053, A1095, A2004, A2012, A2020, A2038, A2053, A2095; TP970C; TP972A1143, A2143; TP973A1001, A1019, A1127  
**14004447-002** Setpoint Cam Assembly for TP970B1002, B1010, B1028, B1036, B2002, B2010, B2028, B2036; TP970D; TP972A1002, A1010, A1028, A1044, A2002, A2010, A2028, A2044; TP973B1009, B1017, B1025, B1108  
**AK3863** Honeywell Thermostat Tool Kit, TP970/TP900  
**CCT729A** Gauge Adapter for Calibration. Add 305965 0 to 30 psi gauge for Complete Tool.  
**CCT735A** Thermostat Calibration Tool includes Allen wrench for cover installation.

- Replacement Parts:**  
**14001865-001** Filter Cartridge Assembly  
**14002053-001** Back Plate Assembly  
**14002573-001** Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972  
**14003192-001** Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations  
**14002573-001** Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972

Product Number	Action	Setpoint Temperature Range		Throttling Range		Includes	Comments**
		(F)	(C)	(F)	(C)		
TP973A2076	Direct Acting	59 F to 90 F	—	2 F to 10 F	1 C to 5 C	Order Cover Separately	For one-pipe order an external 0.005 in. restriction
TP973A2084	Direct Acting	—	15 C to 30 C	2 F to 10 F	1 C to 5 C	Order Cover Separately	For one-pipe order an external 0.005 in. restriction
TP973A2209	Direct Acting	59 F to 90 F	—	2 F to 10 F	1 C to 5 C	Thermostat and Satin Chrome Cover	Tradeline Kit. For one-pipe application-order an external.005 in. restriction
TP973B2066	Reverse Acting	59 F to 90 F	—	2 F to 10 F	1 C to 5 C	Order Cover Separately	For one-pipe order an external 0.005 in. restriction
TP973B2074	Reverse Acting	—	15 C to 30 C	2 F to 10 F	1 C to 5 C	Order Cover Separately	For one-pipe order an external 0.005 in. restriction
TP973B2171	Reverse Acting	59 F to 90 F	—	2 F to 10 F	1 C to 5 C	Thermostat and Satin Chrome Cover	Tradeline Kit. For one-pipe application-order an external.005 in. restriction

\*\*A Tradeline Kit includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) for new installations or to convert newer, small size Honeywell or competitor thermostat, not requiring a wall plate adapter.

A Convertastat Kit™ includes a TP970 Series thermostat with either a Satin Chrome or Beige Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a small Universal Wall Plate Adapter to convert newer, small size Honeywell or competitor thermostats.

A Modernization Kit includes a TP970 Series thermostat with Satin Chrome Universal Cover, Windows (horizontal (F), vertical (F) and blank) and a large Universal Wall Plate Adapter to convert older thermostats.

# Pneumatic Thermostats

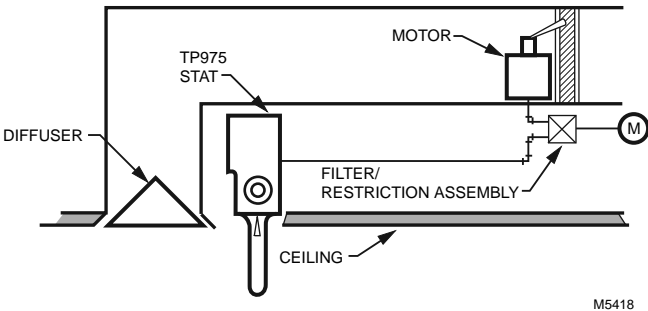
## TP975 Pneumatic Diffuser Thermostat



One-pipe, single temperature, low-capacity pneumatic thermostat used to provide proportional control of pneumatic valves and mixing boxes in heating and air conditioning systems. It mounts in a slot or light troffer diffuser or a return air grill.

- Two-way setpoint indicator for vertical or horizontal mounting.
- Detents in 1 F (0.5 C) increments for blind operation.

TP975 Typical Piping



**Application Type:** Single temperature, low capacity, pneumatic thermostat

**Dimensions, Approximate:** 1 in. high x 2 1/2 in. wide x 1 1/8 in. deep (25 mm high x 63 mm wide x 27 mm deep)

**Airflow Usage:** 0.011 scfm (5.2 mL/s)

**Mounting:** Wall

**Operating Temperature:** 110 F maximum (43 C maximum)

**Storage Temperature:** 150 F maximum (66 C maximum)

**Sensor Element:** Bimetal

**Maximum Operating Pressure:** 30 psi (207 kPa)

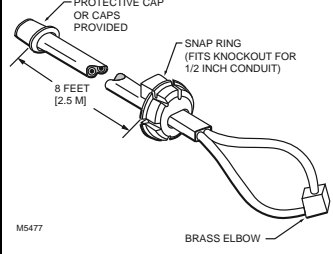
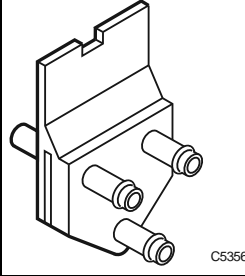
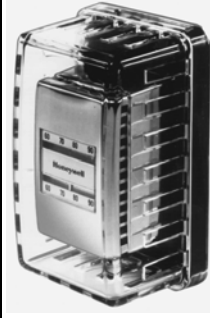
**Accessories:**

**14002913-001** .005 in. Blue Filter Restriction Assembly; Inlet: 1/4 in., Outlets: 1/4 in. and 5/32 in.; Order in Quantities of 10


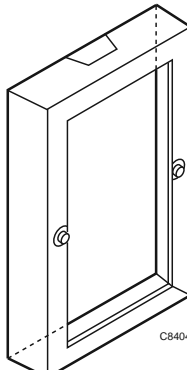
**14002913-004** External Restriction Assembly. 0.005 in. Restriction, Blue Inlet 1/4 in; Outlet 5/32 in. and 5/32 in.

Product Number	Action	Number of Pipes	Setpoint	Setpoint Temperature Range	Throttling Range		Comments	Sensor Element
				(F)	(F)	(C)		
TP975A1009	Direct Acting	1	Single	67 F to 83 F	2 F to 10 F	1 C to 5 C	Requires external 0.005 in. restrictor	Bimetal

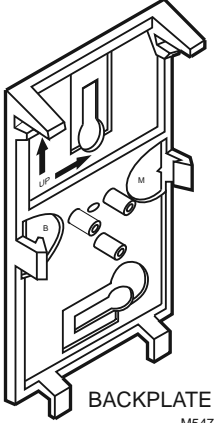
## Pneumatic Thermostat Accessories

Product Number	Description	Used With	
14001491-002	Two-Pipe Airhead, tubing assembly for wall box	TP970, TP972, TP971, TP973, TP9600, HP970	 <p>PROTECTIVE CAP OR CAPS PROVIDED</p> <p>8 FEET [2.5 M]</p> <p>SNAP RING (FITS KNOCKOUT FOR 1/2 INCH CONDUIT)</p> <p>M5477</p> <p>BRASS ELBOW</p>
14001494-002	2 Pipe Airhead Assembly	—	
14001496-001	Mounting Plate for TP970 to 2 in.x 4 in.Electrical Box	TP970	
14001527-001	Three pipe straight white connector	TP970, TP972, TP971, TP973, TP9600, HP970	 <p>C5356</p>
14001614-001	Shallow wall plate assembly	TP970, TP972, TP971, TP973, TP9600, HP970	
14001615-002	Two-pipe plastic tube assembly for shallow wall	TP970, TP972, TP971, TP973, TP9600, HP970	
14001616-002	Thermostat fitting plastic	—	
14001918-001	Branchline Pressure plug	TP970, TP972, TP971, TP973, TP9600, HP970	
14002136-004	Black Trim plate	TP970, TP972, TP971, TP973, TP9600, HP970	
14002136-005	Beige Trim plate	TP970, TP972, TP971, TP973, TP9600, HP970	
14002136-006	Premier White Trim Plate	TP970, TP972, TP971, TP973, TP9600, HP970	
14002136-007	Taupe Trim Plate	TP9600	
14002172-001	Gage Tap repair plug	TP970, TP972, TP971, TP973, TP9600, HP970	
14002362-001	Duct Sampling Chamber	TP970, TP972, TP971, TP973, TP974, TP9600, HP970	
14002430-001	Thermostat Guard	TP970, TP972, TP971, TP973, TP9600, HP970	
14002573-002	Modernization Kit to convert 3 pipe Honeywell TP911C & competitive three pipe pneumatic	TP971C	
14002636-001	Base for 14002362-001 Sampling Chamber	14002362-001	
14002913-001	.005 in. Blue Filter Restriction Assembly; Inlet: 1/4 in., Outlets: 1/4 in. and 5/32 in.; Order in Quantities of 10	—	
14002913-002	.005 in. Blue Filter Restriction Assembly; Inlet: 1/4 in., Outlets: 5/32 in. and 5/32 in.; Order in Quantities of 10	—	
14003113-002	Repair kit containing 0.007 in. restrictor plate, filters, and gaskets	LP916	

# Pneumatic Thermostats



Product Number	Description	Used With	
14003203-001	Bag assembly	—	
14004068-001	Mounting Hardware	—	
14004401-002	Convertastat Wall Plate	—	
14004401-004	Adaptor plate for Convertastat, beige	—	
14004437-001	Insert Cover	—	
14004438-001	Insert Cover	—	
14004438-002	Insert Cover	—	
14004439-001	Setpoint Extension	—	
14004447-001	Setpoint Cam Assembly for TP970A1004, A1012, A1020, A1038, A1046, A1053, A1095, A2004, A2012, A2020, A2038, A2053, A2095; TP970C; TP972A1143, A2143; TP973A1001, A1019, A1127	TP970A, TP970C, TP972A2143, TP979A	
14004447-002	Setpoint Cam Assembly for TP970B1002, B1010, B1028, B1036, B2002, B2010, B2028, B2036; TP970D; TP972A1002, A1010, A1028, A1044, A2002, A2010, A2028, A2044; TP973B1009, B1017, B1025, B1108	TP970B, TP970D, TP972A2002, TP972A2010, TP973B2108, TP979B	
14004447-003	Setpoint Cam Assembly for TP971A, C, D; TP972A1168, A2168, A2176	TP971A, TP971C, TP971D	
14004447-005	Setpoint Cam Assembly for TP970B1044; TP972A1051, A1101	TP970B, TP972A	
14004458-001	Stand-Off Ring for surface or flush mounting	TP970, TP972, TP971, TP973, TP9600, HP970	
14004459-001	Repair kit consisting of a thermometer assembly, a thermometer post and a 60 to 90F aluminum scaleplate	TP970	
14004505-001	Twin elbow connector	TP970, TP972, TP971, TP973, TP9600, HP970	
14004558-001	Six inch main branch tube-spring assembly	TP970, TP972, TP971, TP973, TP9600, HP970	
14004911-001	Taupe Convertastat wall plate with 2 screws	TP9600	
311699	6 inch long anti-kink spring used with 5/32 inch OD plastic tubing	LP916	
316016A	General purpose mounting assembly, includes 3 3/4 in. mounting bracket, scale plate, knob, bulb hangers, screws, and nuts	LP916	
316016C	Knob and scale plate assembly with screws	LP916	
316016M	Knob, large scale plate and hanger assembly with screws	LP916	
AK3863	Honeywell Thermostat Tool Kit, TP970/TP900	HP970, HP972, TP970	

## Pneumatic Thermostat Replacement Parts

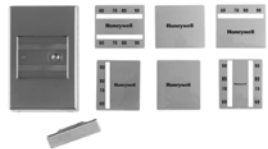
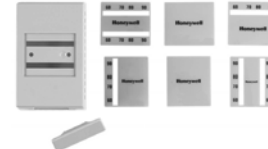

Product Number	Description	Used With	
14000742-002	Two-pipe straight red connector	TP970, TP972, TP971, TP973, TP9600, HP970	
14001865-001	Filter Cartridge Assembly	TP970, TP972, TP971, TP973, TP9600, HP970	
14001957-001	Plug, BLP Tap,	TP970	
14002053-001	Back Plate Assembly	TP970, TP972, TP971, TP973, TP9600, HP970	 <p>BACKPLATE M5479</p>
14002573-001	Modernization Kit to convert all 1 & 2 pipe Honeywell & competitive pneumatic stats to TP970, TP971A, TP972, TP973, TP974, TP9600 family; HP970, HP971 and HP972	TP970, TP9600, TP972, HP970, HP971, TP971A, HP972, TP973, TP974	
14003192-001	Wallplate adapter kit. Adapts HP970 or TP970 series stats to HP900 and TP900 flush mounted and TP910 series flush or surface mounted installations	TP970, TP972, TP971, TP973, TP9600, HP970	
14004405-005	Window thermostat with scale indicator of 60 to 90 F, two clear windows, gray background, Honeywell logo in middle.	TP970	
14004406-901	Thermostat Cover Assembly satin chrome with assembly-cover [chrome] (14004402-001), window thermostat (14004405-020)	TP970	
14004447-007	assembly Cam with cam (14004429-002), Bushing (14002025-001), Screw (14004444-001)	TP970	
14004459-003	Repair plate package assembly includes: thermostat assembly - 14004440-001, pointer - 144002124-001, scale plate - 14004434-003, post, thermostat assembly - 14004436-001, box, plastic - 14004645-002.	TP970	
14004460-003	Package assembly-repair (Bracket) with Bracket assembly (14002387-004), Box, Plastic (14004645-002)	TP970	
14004610-001	Zinc plate metal stud Adapter	TP970	

# Pneumatic Thermostats

## TP9600 Series Standard Covers

Product Number	Description	Used With	
14004910-001	Fahrenheit scale (60 to 90 F) Taupe Thermostat Cover Kit with thermometer and setpoint display visible and Honeywell logo for vertical mounting.	TP9600	
14004910-004	Taupe Thermostat Cover with setpoint and thermometer concealed with Honeywell logo, for vertical mounting	TP9600	

## TP970 Series Standard Covers

Product Number	Description	Comments	Used With	
14004406-910	Satin Chrome Thermostat Cover Kit - includes window inserts for 60 to 90 F setpoint display for vertical and horizontal mounting, or 60 to 90 F thermometer display and setpoint display for vertical and horizontal mounting.	—	TP970 TP972 TP971 TP973	
14004407-910	Beige Thermostat Cover Kit - includes window inserts for 60 to 90 F setpoint display for vertical and horizontal mounting, or 60 to 90 F thermometer display and setpoint display for vertical and horizontal mounting.	See Specification Data sheet, Form No. 77-1003 for details	TP970 TP972 TP971 TP973	
14004787-910	Bright Chrome Thermostat Cover Kit - includes window inserts for 60 to 90 F setpoint display for vertical and horizontal mounting, or 60 to 90 F thermometer display and setpoint display for vertical and horizontal mounting	—	TP970 TP971 TP972 TP973	
14004878-910	Premier White Thermostat Cover Kit - includes window inserts for 60 to 90 F setpoint display for vertical and horizontal mounting, or 60 to 90 F thermometer display and setpoint display for vertical and horizontal mounting	—	TP970 TP971 TP972 TP973	