

PTR & PTL Controller

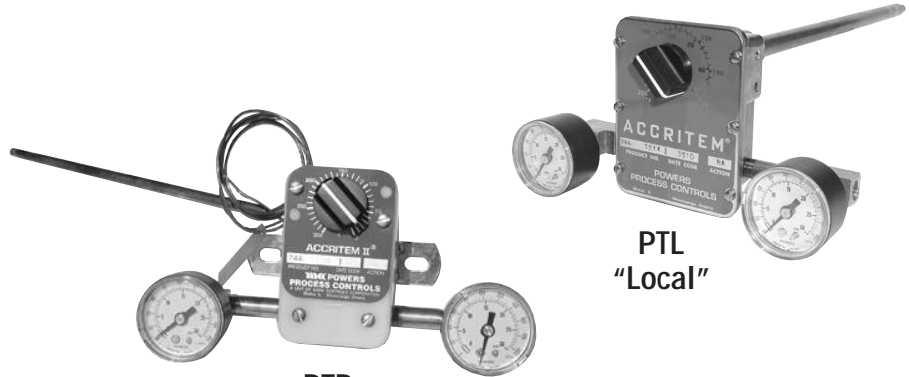
Pneumatic Temperature Controller used with Air Pilot

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Pneumatic Temperature Controller

Temperature Range:

- PTR: 0° - 300°F
- PTL: 50° - 350°F



PTR
"Remote"
with 4-ft. Capillary

PTL
"Local"

REGULATORS

TYPICAL APPLICATIONS

The **PTL** and **PTR Pneumatic Temperature Controllers** operate over a wider temperature range than our standard "T" temperature pilot. These temperature controllers also react quicker to temperature change which make them an excellent choice for instantaneous hot water applications.

HOW IT WORKS

The **PTL** and **PTR Pneumatic Temperature Controllers** are used in conjunction with an "A" Air Pilot to control the operation of the **HD** or **D** Regulator. The **PTL** uses a bimetallic element to sense temperature and the **PTR** uses a hydraulically filled bulb with a 4-ft. capillary to sense temperature. Air supply is connected to the inlet of the controller and the air output signal is fed directly to an air pilot, which controls the opening and closing of the steam regulating valve.

FEATURES

- Accurate and rapid response to temperature changes
- 350°F control temperature range

RECOMMENDED PRESSURE

Differential Pressure: 10 PSIG minimum
Minimum Inlet Pressure: 15 PSIG*

*Minimum Inlet Pressure for Temperature Regulator: 5 PSIG

| Model | PTL | PTR |
|------------------------------|-----------------|-----------------|
| Temperature Adjustment Range | 50° - 350°F | 0° - 300°F |
| Maximum Air Supply Pressure | 35 PSIG | 35 PSIG |
| Sensing Bulb | Bimetallic | Hydraulic Fill |
| Max. Pressure | 250 PSIG | 250 PSIG |
| Max. Temperature | 400°F | 350°F |
| Material | Copper | Copper |
| Optional Material | Stainless Steel | Stainless Steel |
| Capillary Length | N/A | 4-ft. |

HOW TO ORDER

PTL & PTR PNEUMATIC TEMPERATURE CONTROLLER

Specify: • **PTL** or **PTR** controller model (air pilot required for operation)

AIR PILOT

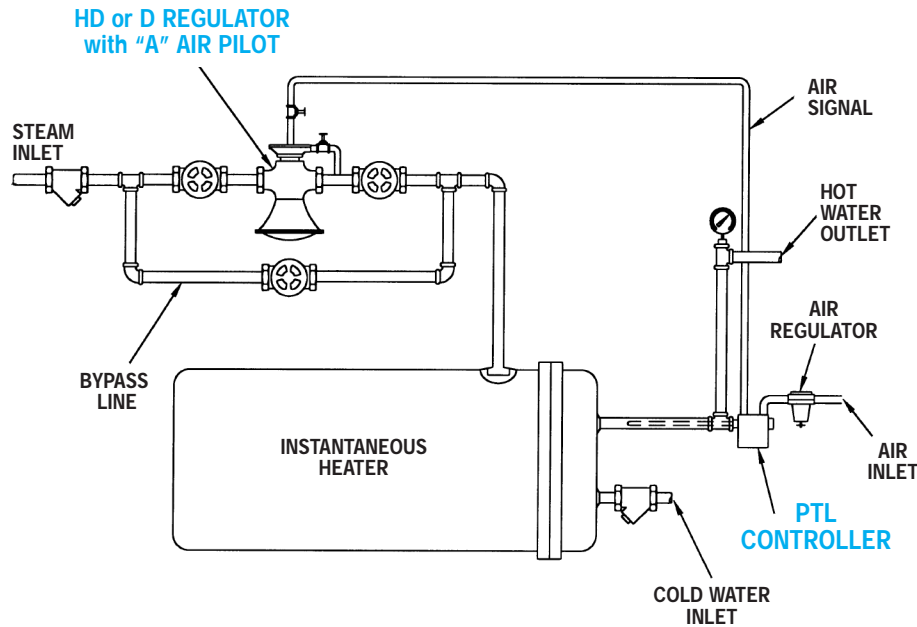
Specify: • **A1**, **A4** or **A6** air pilot model

REGULATOR BODY

Specify: • **HD** or **D** regulator body.
• Regulator size or capacity.
• End connections (threaded, 125/150/250/300# flanged).

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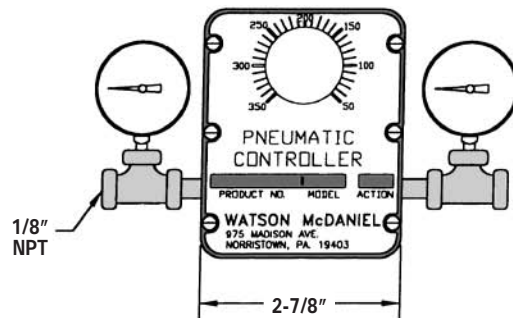
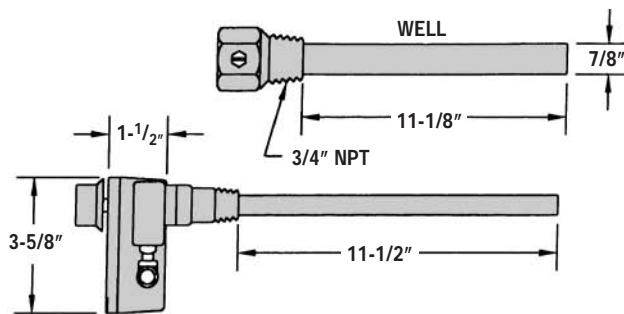


DESCRIPTION OF OPERATION

The PTL Pneumatic Temperature Controller senses outlet water temperature on an instantaneous hot water heater. When the outlet water temperature falls below the set point, the PTL pneumatic temperature controller sends an air signal to the **A1 Air Pilot** which opens the regulator. When the water reaches the desired set temperature, the PTL pneumatic temperature controller shuts off the air signal to the **A1 Air Pilot** and the regulator closes.

REGULATORS

Rigid Bulb Controller – Model PTL



Remote Bulb Controller – Model PTR

