

Water Heater Controls

Product Specifications

PSW12414 / PSW12415

Application

These water heater controls are designed for use in standing pilot applications using an immersion well for water temperature sensing. All models include an integrated NTC temperature sensor.

These units are powered from a thermopile heated by the standing pilot flame. The pilot assemblies are designed for use with these controls.

The immersion well for sensing water temperature has matched NTC thermistor sensors. These sensors provide the fail-safe mechanism through which these units can provide both accurate water temperature control and water temperature limit (Temperature Cut-Out [TCO]) function.



Specifications

IMPORTANT

Controls provide direct replacement only.

Pressure Regulator:

The outlet pressure regulator setting is shown on the product label.

Inlet Pressure Range:

See appliance rating plate for inlet pressure range recommendation.
1/2 PSI (14 in. w.c.) maximum inlet pressure allowed for proper operation.

Body Pattern:

90 degrees with 1/2 in. inlet and 1/2 in. inverted flare outlet.

Mounting:

Mounting in upright position only.

Control Input:

Voltage Minimum: 350 mV dc, open circuit.
Voltage Maximum: 850 mV dc, open circuit.

Capacity:

See Table 1.

Regulation Range:

Natural Gas:
Minimum: 30,000 Btuh.
Maximum: 85,000 Btuh.

Ambient Temperature Range:

32°F to 150°F
(0°C to 66°C)

Operating Range:

0°F to 150°F (-18°C to 66°C)*

Storage Range:

-40°F to 150°F (-40°C to 66°C)

*Valve will operate at 0°F (-18°C) but valve characteristics can not be guaranteed until ambient temperature reaches 32°F (0°C).

Humidity:

95% non-condensing at 104°F (40°C)

Approvals:

This device is certified by Canadian Standards Association (CSA) to the following standards:

ANSI Z21.20
ANSI Z21.23
ANSI Z21.78
ANSI Z21.87
CAN/CSA-C22.2 No. 199-M89
CAN1-6.6-M78
CSA 4.6
CSA 6.20

Accessory Parts:

Pilot Assembly CS8840