

Honeywell

WT8840

Trade Water Heater Controls

INSTALLATION INSTRUCTIONS

APPLICATION

The WT8840 Water Heater Control is designed for use in Standing Pilot applications using an immersion well for water temperature sensing. All models of WT8840 include an integrated NTC temperature sensor.

The WT8840 is powered from a thermopile heated by the standing pilot flame. CS8840 pilot assemblies are designed for use with this control.

The immersion well for sensing water temperature has matched NTC thermistor sensors. These sensors provide the fail-safe mechanism through which the WT8840 can provide both accurate water temperature control as well as water temperature limit (Temperature Cut-Out [TCO]) function.

SPECIFICATIONS

IMPORTANT

WT8840 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.
0.5 PSI (14.0 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 to 150 °F (0 to 66 °C)

Operating Range: 0 to 150 °F (-18 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).

Storage Range: -40 to 150 °F (-40 to 66 °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

Trade Service Part	Replaces	OEM Part Number	OEM Replacement	OEM
WT8840A1000 1" insulation tank, 4" WC setting	WV8840A1000	222-47463-01A	239-47463-01*	Bradford White
	WV8840A1001	222-47463-01E		Bradford White
WT8840A1500 2" insulation tank, 4" WC setting	WV8840A1050	222-47463-02A	239-47463-02*	Bradford White
	WV8840A1051	222-47463-02E		Bradford White
WT8840B1000 1" insulation tank, 5" WC setting	WV8840B1042	316910-000	100112336 & 9007884005	AOSmith
	WV8840B1109	316910-000		AOSmith
	WV8840B1110	321166-000		AOSmith
WT8840B1500 2" insulation tank, 5" WC setting	WV8840B1059	316910-001	100112337 & 9007885005	AOSmith
	WV8840B1117	316910-001		AOSmith
	WV8840B1118	321166-001		AOSmith

* Includes pilot and combustion chamber gasket.

