## SPECIFICATION FOR DOMESTIC WATER HEATERS

# Semi-instantaneous, U-tube, Hot Water Generators with Nickel-Plated Shell And <u>Steam</u> as the Energy Source

Furnish and install the fort Worth, Texas.	ne followin	g <b>QuickDraw</b> ® water heate	r(s) as manufactui	red by PVI Industries, L.L.C.
	Qty	Model Number	,	Inlet Steam Pressure (psi)
	Qty	Number	40° 10 °F	Pressure (psi)
		Pressure Vessel and	Heating Surfaces	S
water heater will be Nation times working pressure.  The heat exchanger	onal Board All tank co will be a _ e tube she	Registered for a working pronnections will be nonferroused single-wall or do	essure of 150 psi s. uble-wall (atmosp	n IV, Part HLW of the ASME code. The and will be pressure tested at 1-1/2 herically vented), copper u-tube bundle be constructed to ASME code and rated
		Tank Li	ning	
fabricated and all weldin suitable for submersion : sacrificial anode rods. I	ig is comp service (Al For additic	eleted. The EN plating will STM B733 standard may be	be a high-phosphe used as a guide anic corrosion, wh	after the pressure vessel is completely norus (10%) and nonporous composition line). The finished lining will not require nich may occur within the potable water overcoat.

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(continued)

#### **Outlet Water Temperature Controls**

Inlet steam through the heat exchanger will be controlled by one or more on/off, solenoid valves that respond to an immersion thermostat. Solenoid valve(s) will fail closed to prevent a runaway situation in the event of a power interruption. The solenoid valve(s) offer a "built-in" solenoid shutoff for the inlet steam in the event of an over-temperature situation. The semi-instantaneous heater will contain enough stored water to act as a temperature buffer and will enable control of outlet water temperature to within 5°F of thermostat setting without the need for a continuously running integral circulating pump or a modulating steam valve connected to a feed-forward blending system. An over-temperature tank purge valve will not be required as standard equipment to correct for temperature swings.

The heat exchanger will be sized to obtain the required domestic water temperature and flow through the significant latent energy in steam that is released as it condenses. The heater will not need to sub-cool condensate. For maximum boiler system efficiency, condensate will return at above 200°F, eliminating the need to reheat condensate prior to reintroducing it into the boiler.

#### **Safety Controls**

As a minimum, the heater will be equipped with the following:

- automatic solenoid shutoff of inlet steam line
- an immersion operating thermostat
- an immersion temperature limiting device

an ASME- or AGA-rated temperature and pressure relief valve
If selected, the water heater will be equipped with the following optional equipment.  manual-reset, temperature limiting device  double-solenoid, over-temperature system with tank purge valve  a pressure differential, tube wall breach detection and shutdown system
Warranty Summary
Heat exchanger will have a one-year three-year warranty. All other heater parts will have a one-year warranty. Storage tank will have a ten-year warranty covering manufacturing or material defects, and/or the production or rusty water. If indicated here, the heater will also have a first year or long-life service policy, which will cover replacement labor and freight costs under certain conditions. This summary is not a warranty. Consult warranty and policies for full details. Complete copies of all warranties and service policies, including all exclusions and conditions, will be presented to the owner as part of the submittal package.
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(continued)

#### **Finishing**

The water heater will be completely factory packaged, requiring only job site hookup to utilities and domestic water piping. The heater will be insulated to meet current ASHRAE standards, jacketed in steel panels with an industrial finish, and mounted on heavy-duty stand. The heater will fit properly in the space provided and installation will conform to all local, state, and national codes. For a list of selected optional equipment, see form PV 6350 or PV 6357.

#### Start Up

Start up on the unit will be performed by factory trained and authorized personnel. A copy of the start up report will be provided to the owner.

#### **Quality Certification**

The water heaters will be manufactured by a company that has achieved certification to the ISO 9001 International Quality System.

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