

Technical Data Sheet

AquaPLEX® Storage Tanks

Designed To Last – No Anode Rods Needed | 25-Year Warranty | No Maximum Temperature*

The AquaPLEX stainless steel tanks are designed for durability and performance and require no lining or anode rods. Their resistance to chloride stress corrosion cracking makes them ideal for potable water. Available for traditional water heating, solar heating, or heat pump systems, the LDX duplex stainless steel tanks come with a 25-year warranty and optional features for efficient hot water storage.

Comparison of AquaPLEX with Glass Tank Linings (porcelain enamel) and Thermosetting Epoxy Polymers					
	Porosity	Anodes Required	Suffers at High Temperature	Complete Waterside Coverage and Protection	Standard Warranty
AquaPLEX	None	No	No	Yes	25 years
Glass Linings	Inherent	Yes	Yes, erodes	No. Exposure at the tank fittings and weld seams	3 or 5 years
Epoxy Polymers	Common	Yes	Yes, degrades	No. Exposure at the tank fittings	3 or 5 years

Features

- Hot water storage up to 200°F*
- Durable AquaPLEX construction
- Fiberglass insulation meets requirements of ASHRAE/IESNA 90.1
- Coated steel jacket panels
- Available for connection to high-temperature solar heating or heat pump systems

Corrosion Protection

- AquaPLEX engineered duplex stainless steel alloy storage tank
- Corrosion-Proof Solid-Bronze Tank Fittings: All tank connections are inherently corrosion-proof, non-ferrous fittings which do not require dielectric nipples for copper piping unlike carbon steel fittings used by other manufacturers
- Lining protection is not compromised when pipe is threaded into fittings
- No anode rods required or used

Warranty

- 25-year AquaPLEX tank warranty (15 years full, 10 years prorated)
- One-year parts warranty
- First-year service policy (freight and labor coverage)

Certifications & Standards

- ASME, section IV, part HLW stamped and National Board Registered for 150 psi MAWP
- Intertek / ETL listed NSF 372 lead-free
- CRN issued per province



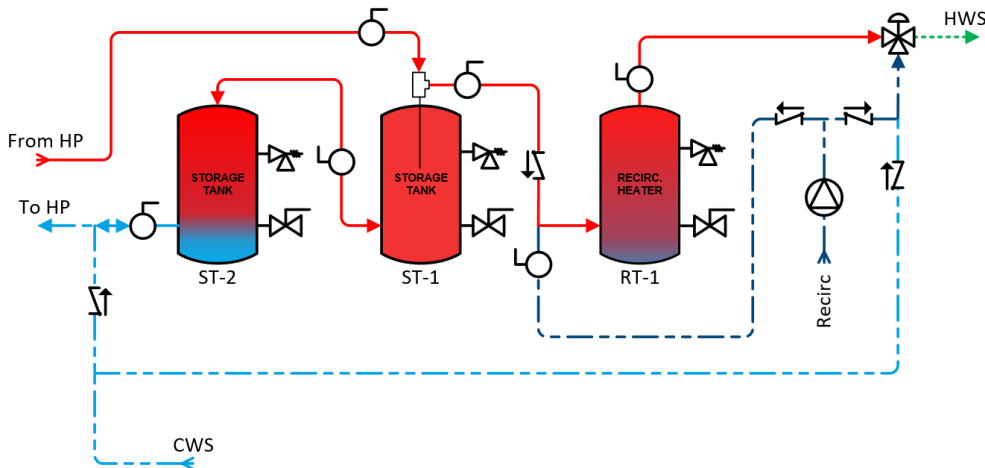
Optional Features

- Long-life service policy
- Field-installed accessories including a tank thermostat, relief valves, and other installation kits
- Injection tee and inlet diffusers to support tank stratification
- Consult a representative for custom configurations

*limited by ASME and for safety

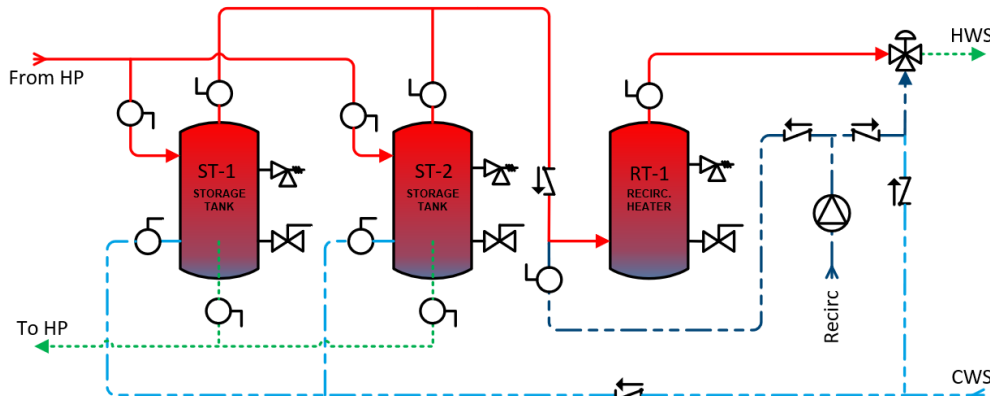
Hot Water Storage – Heat Pump Systems

Designed to Stratify



Single-pass heat pump example configuration with recirculation

(Example drawing; not for construction)



Multi-pass heat pump example configuration with recirculation

(Example drawing; not for construction)

Temperature Control

Several features can be provided with the storage tanks to provide better temperature control for the water heating system:

Temperature Sensors: Each tank has a thermostat fitting which can be fitted with both a thermowell and temperature probes to communicate internal tank temperatures to the heat pump water heater. If needed, additional fittings can be added to the tanks for more sensor locations.

Fiberglass Insulation: Standard insulation provided with PVI AquaPLEX storage tanks meets ASHRAE/IESNA Standard 90.1 insulation requirements to reduce heat losses. Minimizing the ambient heat loss of tanks reduces the rate of cycling on a heat pump and improves compressor life.

Inlet Diffuser: Connected to the cold water inlet connection towards the bottom of the tank, this baffle reduces cold water flow velocity into the bottom of the tank to reduce mixing with the stored hot water when delivering out to the system.

Injection Tee: Connected to the hot water inlet connection at the top of the tank, this accessory specifically designed for heat pump systems allows for hot water to be simultaneously delivered to and drawn from the tank, reducing circulation to promote stratification. Keeping a smaller thermocline through stratification improves the effectiveness of temperature sensors with regards to controlling heat pump cycling.

Visit pvi.com for additional documents regarding manuals, specifications, and warranties for AquaPLEX storage tanks.



Hot Water Solutions

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