
Commercial AquaPLEX[®] DHW Storage Tanks



Hot Water Solutions



VERTICAL STORAGE TANKS • Insulated and Jacketed

AquaPLEX® STORAGE TANK (UNLINED DUPLEX ALLOY)

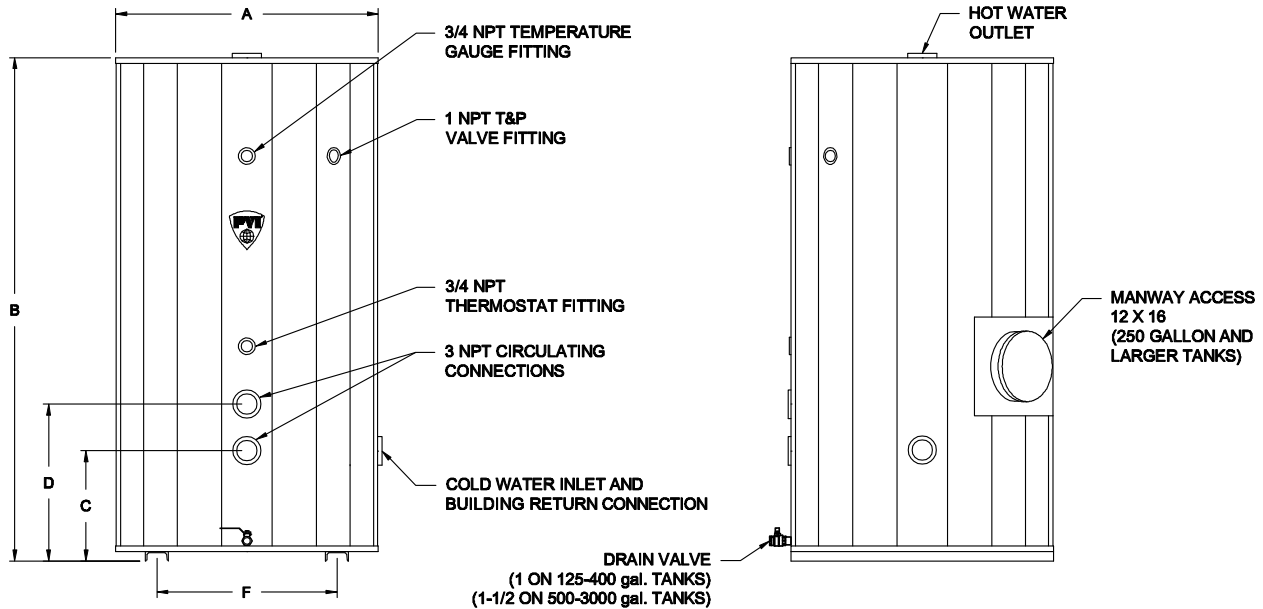
TANK SERIES 125 - 3000 GALLONS

Model No.	Gallons Storage	Dimensions in Inches					Water Inlet and Outlet Connections NPT	Approx. Shipping Weight lbs
		A	B	C	D	F		
L 125A-TR	125	29 1/2	75	15	23	20	2	755
L 150A-TR	150	34x37	65	19	27	21	2	815
L 175A-TR	175	34x37	71	19	27	21	2	855
L 215A-TR	215	34x37	78	19	27	21	2	895
L 250A-TR	250	46	63	19	27	31	2	945
L 300A-TR	300	46	75	19	27	31	2	1010
L 400A-TR	400	46	87	19	27	31	2	1070
L 500A-TR	500	56	78	23	31	31	3	1415
L 600A-TR	600	56	90	23	31	31	3	1605
L 750A-TR	750	67	83	23	31	40	3	1770
L 900A-TR	900	67	95	23	31	40	3	1990
L 1000A-TR	1000	67	107	23	31	40	3	2210
L 1250A-TR	1250	75	96	23	31	47	3	3030
L 1500A-TR	1500	75	108	23	31	47	3	3245
L 1750A-TR	1750	75	132	23	31	47	3	3685
L 2000A-TR	2000	75	144	23	31	47	3	4160
L 2500A-TR	2500	75	156	23	31	47	3	4425
L 3000A-TR	3000	75	180	23	31	47	3	4865

Dimensions are in inches unless otherwise noted.
 For larger storage capacities, consult factory.
 For standard and optional equipment, see form PV 8066.



Tank sizes 1000, and 1500 - 3000 gallon include horizontal shipping skids (not shown).



- CUSTOM FITTINGS AVAILABLE, CONSULT RIADA SALES.
- INTERNAL FLOW DIFFUSERS AVAILABLE FOR REDUCING INLET VELOCITY IN STRATIFIED STORAGE DESIGNS.

PVI RESERVES THE RIGHT TO CHANGE THE DESIGN AND SPECIFICATION WITHOUT NOTICE.

AquaPLEX® Storage Tanks

Unlined Duplex Alloy, Vertical Storage



FEATURES and EQUIPMENT

PRESSURE VESSEL

- ASME stamped and National Board Registered for 150 psi MAWP (standard)
- Optional higher pressure ratings available (200, 250, 300 PSI+)
- Nonferrous removable fittings at all tank connections
- Custom fitting sizes & locations available
- Internal flow diffusers available
- Lifting lugs
- Manway tank access ≥ 250 gallons
- Steel base skid
- Fiberglass insulation
- Coated steel removable jacket panels
- Tie down anchor points on tank
- Bottom drain valve

WARRANTY and SERVICE POLICY

- 25-year tank warranty (PV901) ①

CODES AND STANDARDS

- ASHRAE 90.1 compliant
- Intertek / ETL listed NSF372 lead-free

① See complete warranties and service policies for full details.

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PART NUMBERS SEQUENCE

Base PN	PN W/Flow Diffusers	Model
135747	135957	L 125 ATR
135674	135955	L 150 ATR
135673	135953	L 175 ATR
135615	135950	L 215 ATR
132619	135945	L 250 ATR
135787	135960	L 300 ATR
135792	135963	L 400 ATR
135806	135965	L 500 ATR
135836	135968	L 600 ATR
135895	135970	L 750 ATR
135898	135973	L 900 ATR
138032	138034	L 1000 ATR
138030	138033	L 1250 ATR
135899	135975	L 1500 ATR

FIELD INSTALLED OPTIONS (Ordered as a line item)

- Tank thermostat with 3/4" well (PN 128516)
- Relief Valve Kit 1-inch 150 psi (PN 102563)
- Installation kit 125-400 gallon (PN 143406)
- Installation kit 500-3000 gallon (PN 143407)

OPTIONAL SERVICE POLICIES

- 1-year cost-free service policy (PV 551) ①
Conditions exist outside of the continental United States
- Long-life service policy (PV559) ①
Conditions exist outside of the continental United States

CUSTOM CONFIGURATION

Consult representative for all additional custom option



PVI Industries, LLC
Fort Worth, TX • (800) 784-8326 • www.pvi.com

AquaPLEX[®]
ENGINEERED DUPLEX ALLOY

You may never replace a water heater or storage tank again.

Now with
standard warranties
up to 25 years!



AquaPLEX duplex alloy combines the advantages of both 300 and 400 series stainless steel. Water heaters and storage tanks fabricated from AquaPLEX provide the following benefits:

No tank lining needed. Fully passivated duplex stainless steel needs no additional corrosion protection.

No corrosion means that no anode rods or impressed current anodes are required

Better than 316L or 304L stainless steel in potable water because AquaPLEX is immune to chloride stress corrosion cracking

Capable of storing water >200°F year after year with no effect

The ultimate solution to all water heating applications and the only long-term solution for solar thermal storage


Engineered Water Heating Solutions[®]

AquaPLEX®

Engineered Duplex Alloy

AquaPLEX is a revolutionary, engineered design for potable water heaters that combines duplex stainless-steel alloy with PVI's highly specialized and proprietary manufacturing process. The result is a long-lasting, reliable water heater with superior corrosion-resistance.

AquaPLEX involves special fabricating and welding processes in vessel construction. Laser and water-jet sheet cutting are used to minimize or eliminate exposure of the duplex stainless steel to extreme heat. Welding processes employ six-axis, robotic, synergic-pulse welding machines that automatically and instantly manage the arc current and voltage based on the welding speed to optimize the size and create high-quality, consistent welds.

Key to AquaPLEX's enhanced corrosion resistance is a post-fabrication **pickling and passivation process**, where the finished vessel is submerged in a temperature and concentration-controlled cleansing bath that returns the material to pristine condition. After removal from the bath, rinsed with purified water and exposed to air, the chromium in the AquaPLEX material reacts with oxygen to create a continuous, passive chromium oxide layer on its surface. This layer is permanent and prevents AquaPLEX from corroding when exposed to the dissolved oxygen and other aggressive elements found in all potable waters. This refined oxide layer is responsible for its long-lasting corrosion resistance.

A superior material for typical potable water temperatures, AquaPLEX has no temperature limits and is suitable for continuous exposure to water temperatures approaching 200°F, as can occur with solar thermal heating and emerging heat pump technologies. Such temperatures would quickly erode tank linings like porcelain enamel (glass) or epoxy polymer. Note: Any water temperature limitations are dictated by ASME code or other safety certifications, and not the AquaPLEX vessel material.



Figure 1: 50,000 psi Water Jet Cutting with no heat signature

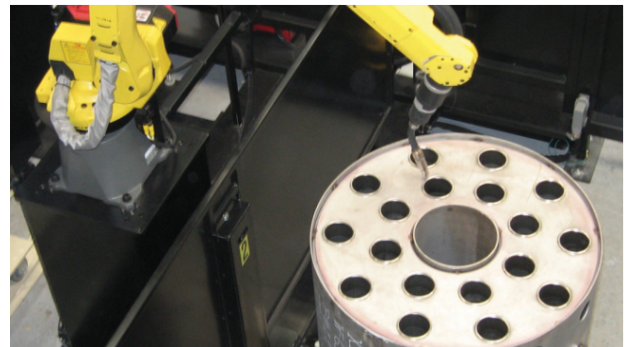


Figure 2: TIG Welding in progress with 6-axis Robotic

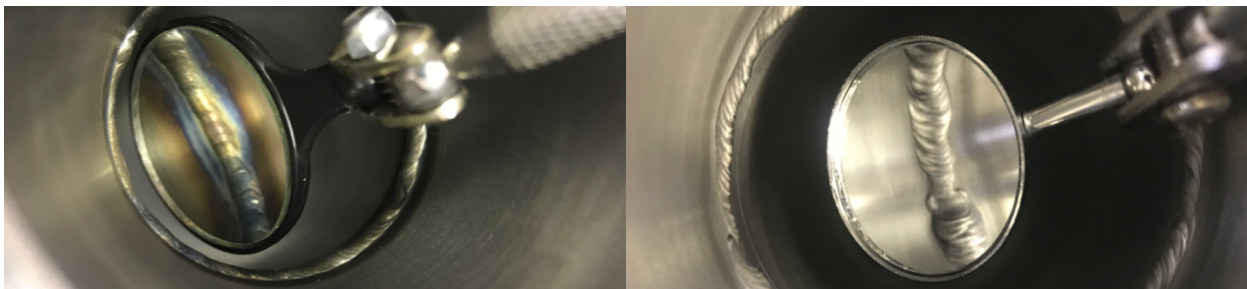


Figure 3: Stainless Steel without Pickling and Passivation (left); AquaPLEX Pickling and Passivation (right)