

SUPERstor GL

GLASS LINED STORAGE TANK



Available in 50-, 80-, 119-, and 175-Gallon Models

The most efficient way to store hot water for residential and commercial applications.

More hot water and increased storage capacity. Installed individually or in multiple applications, The SuperStor Coil Booster Glass Lined Storage Tank can provide 80% draw capability without an appreciable temperature decrease in single temperature applications.

Construction Features

- **Long life tank design**
Unique steel formulation with high-temperature porcelain enamel to maximize corrosion resistance resulting in a superior tank design. Heavy duty magnesium anode rod(s) are installed for longer tank life.
- **Efficient design**
Rigid polyurethane foam insulation provides superior insulating qualities that allow less than 1 degree F per hour heat loss (24 degrees F in 24 hrs.) resulting in reduced operating costs. The patented process of injecting foam into the insulating cavity adds additional durability and toughness to the tank.

- **Tank Openings**
Circulating line connections and hot outlets are 3/4" NPT on the GL-50, 2" NPT on the GL-80 and GL-119 and 2-1/2" NPT on the GL-175. Other openings are provided for relief valve and temperature control. The GL-175 is equipped with a hand-hole cleanout.

Certifications and Ratings

- **Optional ASME Construction**
ASME construction is available on storage models GL-80 ASME/GL-119 ASME/GL-175 ASME. Certified to ASME boiler and pressure vessel code standards.

Limited Warranty

- This product features a five-year limited warranty against tank leaks. See warranty brochure for complete details.

Features and Benefits:

- Glass lined steel tank for long life.
- 1½"-thick foam insulation allows less than 1 degree F per hour heat loss (24 degrees F in 24 hours) for easy servicing.

Plumbing

It is important that all plumbing is done in accordance with all local, state, and federal plumbing codes and that thread dope (provided) be used on all mechanical connections.

NOTE: The use of heat, such as blow torches, etc., near the tank, may cause distortion to the high density polyethylene wrapper. Caution should be exercised.

NOTE: When filling the tank, make sure you open a hot water tap to release air in the booster tank and piping system.

Operating Your Glass Lined Storage Tank

Boiler high limit should be set at least 20 degrees F. higher than the booster tank temperature setting. Temperature setting of 120 degrees F. is recommended, or use setting in accordance with local and state codes for normal operation. You may prefer a lower temperature setting to satisfy your needs. A mixing valve in connection with a higher temperature setting may be used for high demand applications (saunas, spas, hot tubs, whirlpools)

NOTE: If draining of the tank is necessary, open the T & P valve or a hot water tap to prevent vacuum buildup in the tank and piping.

Domestic Hot Water Outlet Connection

Use both thread tape and pipe dope and connect an NPT brass tee (refer to dimensional information chart for the correct connection size for your tank) In the run off the brass tee, install an NPT brass T&P valve long element for hot water storage tanks, required by local codes, but not less than the valve certified as meeting the requirements for relief valves for hot water heaters (ANSI Z212B-1984) by a nationally recognized lab that maintains periodic inspection of production listed equipment. Make sure the relief valve is sized to the BTU and storage capacity of the tank. The temperature and pressure relief valve must be plumbed down so discharge can exit only 6" above or at any distance below the structural floor and cannot be in contact with any live electrical parts.

⚠ WARNING

⚠ DANGER



Water temperature over 120 degrees F. can cause severe burns instantly, or death from scalds. Children, disabled, and elderly are at highest risk of being scalded. See instruction manual before setting temperature at water heater! Feel water before bathing or showering. Temperature limiting valves are available, see manual.

⚠ DANGER



5 Year Limited Warranty

Heat Transfer Products, Inc., warrants to the original retail purchaser, that Heat Transfer Products Inc. will furnish a replacement GL series tank assembly in the event of tank leakage or defects in material, workmanship or repair same at our option, at no cost to the original retail purchaser, except as set forth in the warranty. Heat Transfer Products Inc. shall not, under any circumstances, be liable for incidental and or consequential damages and expenses resulting from alleged defects under this warranty.

Accessories and Options

GL-KT1 Aquastat cover with BX and line cord (for GL-50 series only)

GL-KT2 Aquastat cover with BX, line cord and bronze pump (for GL-50 series only)

Dimensional Information

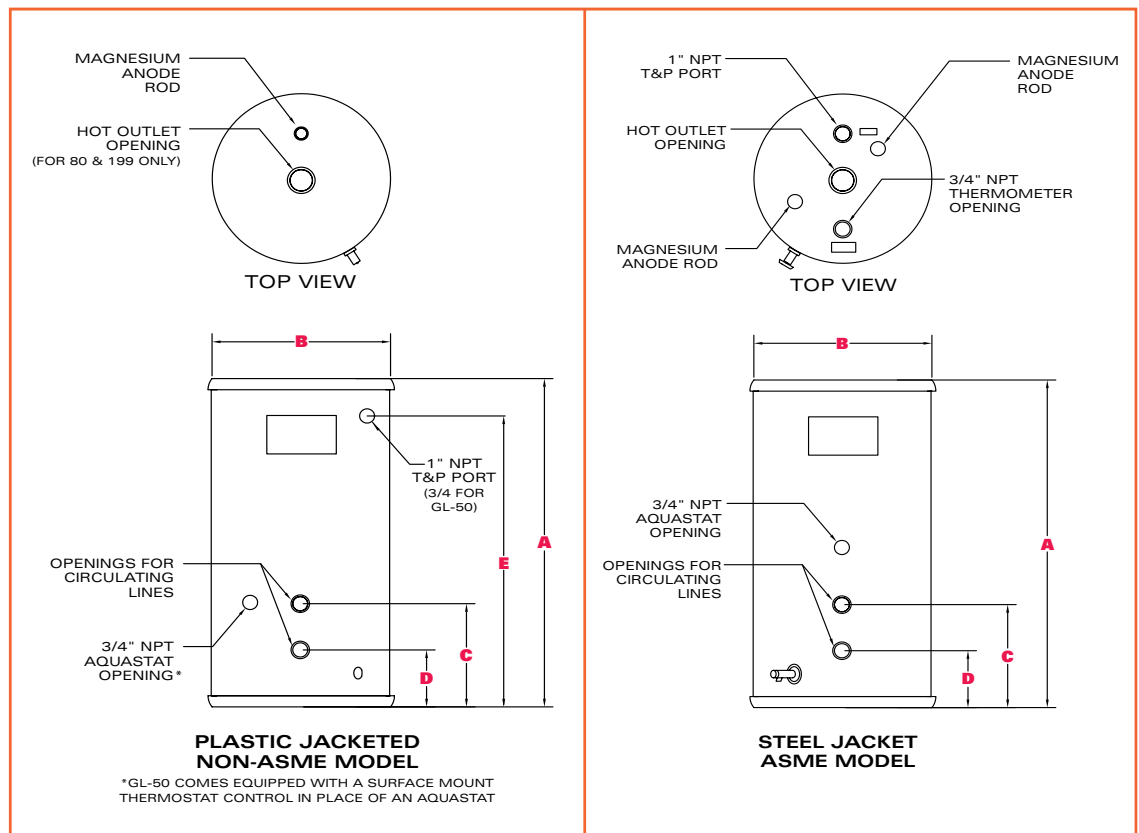
Plastic Jacketed (Non-ASME)												
Model Number	Units	A	B	C	D	E	Water Connections		Tank Capacity		Maximum Working Pressure	Approximate Shipping Weight
							Hot Outlet	Front Side	Gallons	Liters		
GL-50 (non-ASME)	inches	52"	19-1/4"	14"	7"	45"	3/4" NPT-M	3/4" NPT-M	50	189	150 PSI	120 lbs.
	mm	1320	489	355	177	1143	19	19			1034 kPa	54 kgs
GL-80 (non-ASME)	inches	59"	23-1/4"	13"	7"	51-1/4"	2" NPT-M	2" NPT-M	80	303	150 PSI	165 lbs.
	mm	1498	590	330	177	1302	50	50			1034 kPa	75 kgs
GL-119 (non-ASME)	inches	64"	27"	13"	4-1/16"	55"	2" NPT-M	2" NPT-M	115	435	150 PSI	250 lbs.
	mm	1625	685	330	177	1397	51	51			1034 kPa	113 kgs

Metal Jacketed (ASME)												
Model Number	Units	A	B	C	D	E	Water Connections		Tank Capacity		Maximum Working Pressure	Approximate Shipping Weight
							Hot Outlet	Front Side	Gallons	Liters		
GL-80 ASME	inches	58-5/16"	24-7/16"	13-3/16	6-3/16	2" NPT-M	2" NPT-M	80	303	125 PSI	260 lbs.	
	mm	1481	621	335	157	51	51			862 kPa	118 kgs	
GL-119 ASME	inches	59-1/4"	28-1/4"	11-1/16"	4-1/16"	2" NPT-M	2" NPT-M	115	435	160 PSI	340 lbs.	
	mm	1505	718	281	103	51	51			1103 kPa	154 kgs	
GL-175 ASME*	inches	67-1/4"	32-1/4"	12-9/16"	5-9/16"	2-1/2" NPT-M	2-1/2" NPT-M	175	662	150 PSI	600 lbs.	
	mm	1708	819	319	141	64	64			1034 kPa	272 kgs	

*Also available in non-ASME model

Specifications

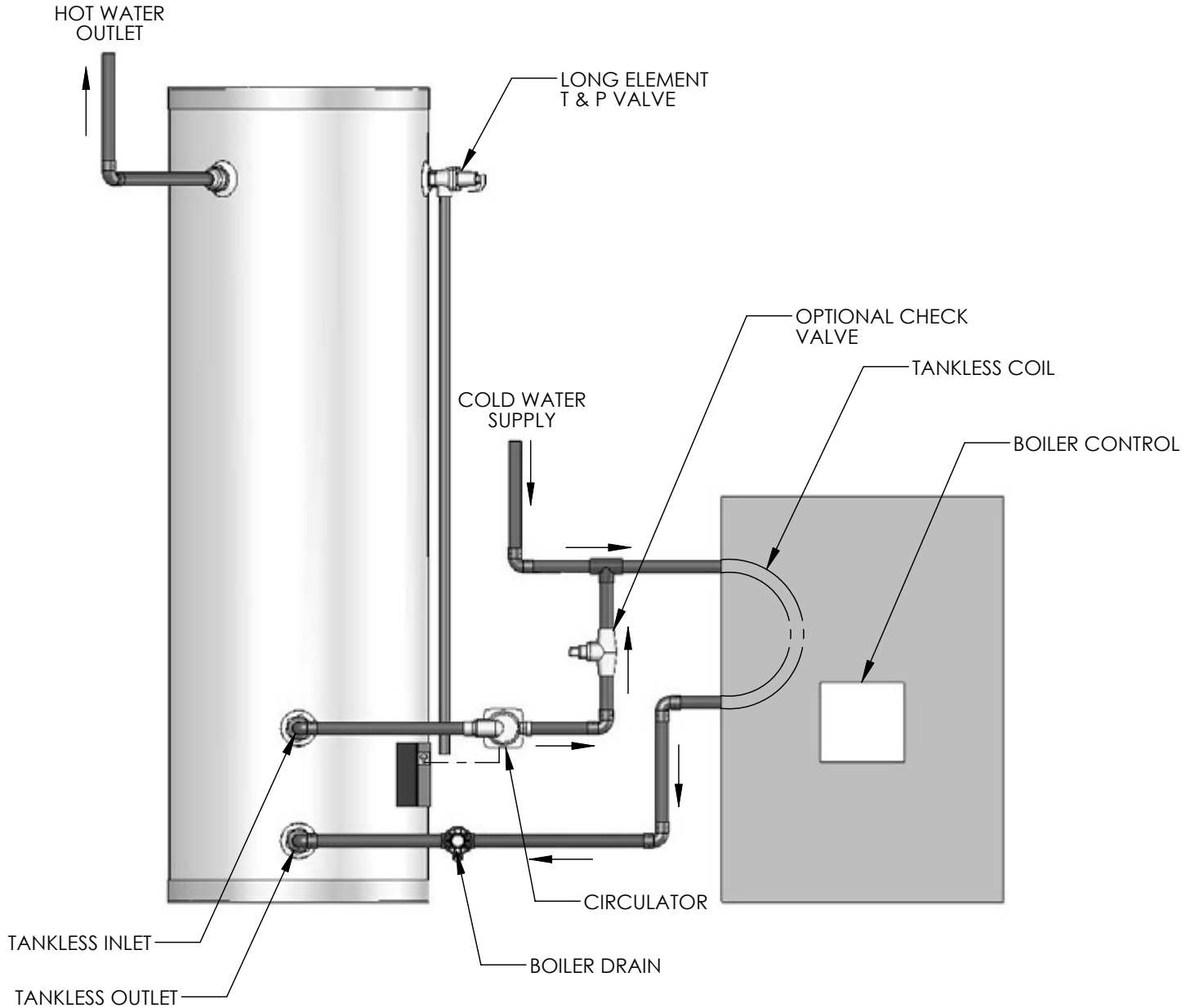
Tank(s) interior shall be coated with a high temperature porcelain enamel and furnished with two magnesium anode rods rigidly supported for the metal jacketed and one magnesium anode for the plastic jacketed. Storage Tank(s) shall exceed the efficiency requirement of ASHRAE Standard 90.1b-2001. Tank(s) shall have a working pressure rating of 150 psi, and shall be completely assembled. Tank(s) shall be insulated with rigid polyurethane foam insulation. Storage Tank(s) shall be covered by a five year limited warranty against tank leaks.



ASME Constructions

Metal Jacketed Storage Tank(s) shall be constructed in accordance with the requirements of the ASME Boiler Pressure Vessel Code, Section IV Part HLW.

Typical Glass Lined Storage Tank Installation



NOTE: IF A BACKFLOW PREVENTER OR A NO RETURN VALVE IS INSTALLED, A THERMAL EXPANSION TANK IS REQUIRED ON THE COLD WATER INLET BETWEEN THE SUPERSTOR AND THE BACKFLOW PREVENTER.

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