

ASME and Non-ASME Storage Vessels

6 - 5000 Gallon Capacity

Features

- **Heavy Duty Construction**
 - ✓ Hydrastone cement lining provides longer tank life
 - ✓ Non-ferrous tappings cannot rust or corrode
 - ✓ High impact composite jacket eliminates damage during installation and transit and cannot rust or corrode
- **Versatile**
 - ✓ Full range of sizes, vessel construction, and optional features to meet your water storage needs
 - ✓ Extra tappings & location options customized to your needs
- **Reliable**
 - ✓ Full five (5) year Non Pro-rated tank warranty is standard
 - ✓ Full ten (10) year Non Pro-rated tank warranty can be specified for extended protection

Applications

- Schools
- Office Buildings
- Prisons
- Stadiums
- Hotels
- Industrial Facilities
- Nursing Homes
- Hospitals
- Cold Water Storage
- Chill Tank
- Steam Condensate
- Solar



Model E



Model SH & H
(Vertical Configuration Shown)



A Long Lasting, Trouble-Free Storage Tank

The Hubbell storage vessel incorporates a number of features not found in other conventional tanks which makes it better suited to resist the highly corrosive effects of hot water. It is a superior storage vessel which utilizes a specially formulated Hydrastone cement lining, and non-ferrous threaded tank openings, all of which ensure a longer lasting

and energy efficient storage tank. Hubbell can build a storage tank to suit any demand, water type, or area classification. When you specify and install a Hubbell storage tank, you will have confidence in knowing that the owner will be provided with a long lasting, trouble-free source of hot water.

Cement Lined Tanks Provide Longer Service Life



What is the most common reason why a water heater fails?



Failure of a tank's protective lining allows water to come into direct contact with the steel tank, causing it to corrode and leak.

Therefore, the type of protective lining is the single most important feature when determining the quality of any water heater. The ability of a lining to protect the steel tank is primarily based upon its thickness and complete coverage of all steel surfaces.

Two common internal tank linings are Glass & Cement.

Glass

Glass lining is approximately 5 mils (.005") thick & does not cover all internal surfaces.

To compensate, all glass lined tanks require a sacrificial anode rod which must be periodically inspected and replaced.

Cement

Hydrastone cement lining is a minimum of 1/2" thick (100 times thicker than glass lining) and is guaranteed to uniformly cover 100% of all internal tank surfaces. The result is a significantly longer lasting tank which does not require a sacrificial anode.

Threaded tapping material is critical for tank longevity.

Glass lined tanks are constructed with regular steel tapings which are continuously attacked by corrosive hot water due to the lack of glass lining on the internal threads. Hubbell storage tanks are constructed with *solid non-ferrous tank tapings* which are impervious to the corrosive effects of hot water.

The Hubbell Storage Tank is a longer lasting water heater based on the construction features found with the Hydrastone cement lined storage tank. When you specify and install a Hubbell storage tank, you will have confidence in knowing that the owner will be provided with a trouble-free and long lasting water heater.

■ Thickness

Each Hubbell storage tank is lined with a minimum 1/2" thick Hydrastone cement to ensure protection of the steel tank.

■ Coverage

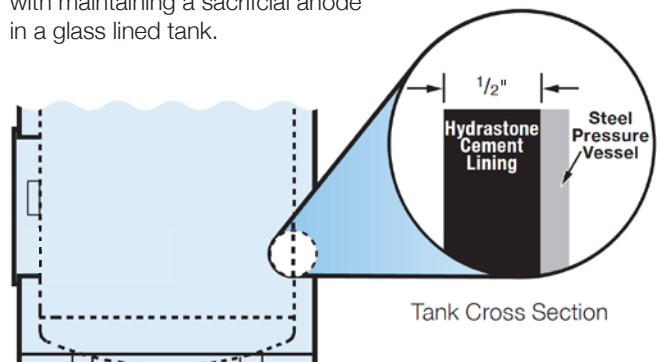
The Hydrastone cement lining covers a guaranteed 100% of all interior tank surfaces and is free from flaws or imperfections. Full coverage is achieved by injecting the precise amount of Hydrastone cement into each tank and then centrifugally spinning it at 250 RPM to ensure complete and uniform coverage of the lining on all interior surfaces.

■ Corrosion Resistance

Hydrastone cement is a specifically formulated high density lining designed to provide maximum protection from the corrosive effects of hot water.

■ Reduced Operating Costs

The Hubbell storage tank water heater significantly reduces the total ownership cost of a water heater due to the longer life and maintenance-free benefits derived from a Hydrastone cement lined tank. Longer tank life is directly attributable to the unmatched tank protection provided by the Hydrastone cement lining and copper-silicon tapings. Additionally, the Hubbell storage tank reduces operating expenses by eliminating the periodic inspection and replacement costs associated with maintaining a sacrificial anode in a glass lined tank.



Model E/SH/H Storage Tank Specifications

Tank:	Hydrastone cement lined steel	Design WP:	150 psi
Capacities:	6 thru 5000 Gallons	Design TP:	300 psi
Orientation:	Vertical and Horizontal	Insulation:	2" Polyurethane Foam
Inlet Size:	1½" Female NPT	Tank Warranty:	
Outlet Size:	1½" Male NPT	Standard:	5 Year Non Pro-Rated
Drain Size:	1½" GHT	Optional:	10 Year Non Pro-Rated
Relief Valve Size:	1½" Female NPT	Jacket:	High impact colored composite or other
Relief Valve Type:	T&P, 210°F, 150 psi		

General Specifications

1. Tank (Non-ASME)

The Hubbell tank is all welded heavy steel construction designed for 150psi working pressure and tested to 300 psi. Each tank is centrifugally lined with ½" thick seamless high density Hydrastone cement with 100% guaranteed coverage of all steel surfaces. All tank openings are non-ferrous metals and are resistant to the corrosive effects of hot water.

2. Tank (ASME)

All welded carbon steel vessel designed and built in strict accordance with the ASME Code Section VIII and stamped, certified and registered with the National Board of Boiler and Pressure Vessel Inspectors.

3. Insulation

Highly efficient polyurethane foam insulation meets or exceeds the requirements of ANSI/ ASHRAE/IESNA 90.1-2007 standards for energy efficiency and heat loss.

4. Jacket

The exterior protective jacket is constructed from high impact composite material which cannot rust or corrode and does not require painting.

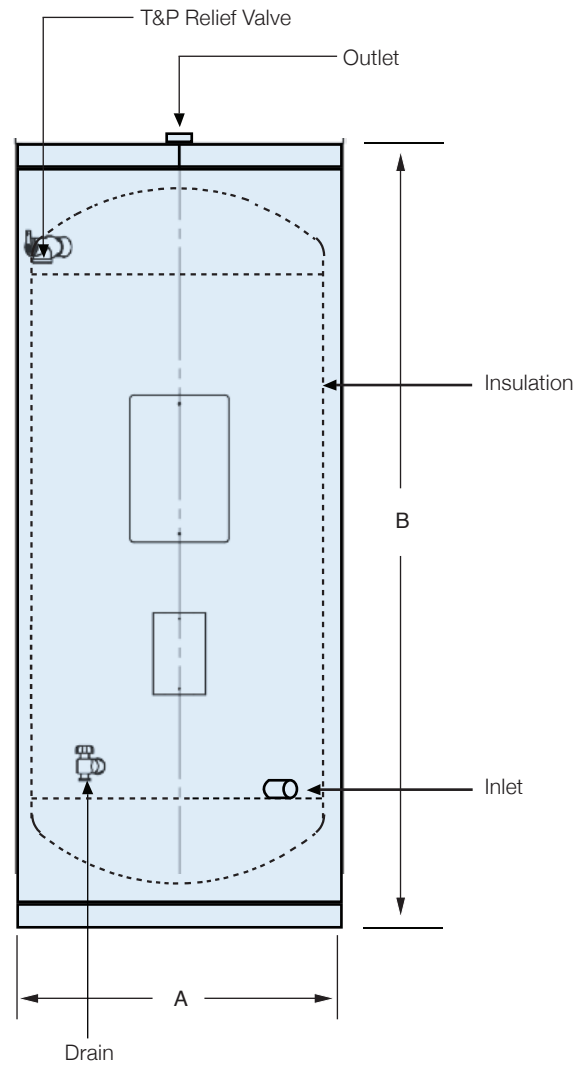
Optional Equipment

- 1. Steel wall shelf for 6 thru 40 gallon models
- 2. Combination temperature and pressure gauge: 2.5" dial, 70-250°F, 0-200 psi —specify if installed in tank or shipped loose for in-line installation
- 3. Alternate inlet and outlet water connections
- 4. Solid (copper-alloy, Type 304L, Type 316L stainless steel) storage tank for maximum tank life
- 5. Full 10 Year Non Pro-Rated tank warranty
- 6. Integrally welded seismic attachment points
- 7. ASME tank construction, Model EA/SH/H
- 8. Horizontal construction available
- 9. Foam insulation 3" thick for improved operating efficiency
- 10. Skid mounting on heavy duty all welded I beam
- 11. Type 304 stainless steel protective jacket, please specify if painted
- 12. Field removable (knocked-down) outer jacket
- 13. Alternate insulation system
- 14. Manway 12" x 16" size
- 15. Inspection opening 3" NPT size

Note:

Any and all optional equipment for a water heater must be called out in the written specifications. A model number in and of itself does not reflect any optional equipment selected. **Please note:** optional equipment may impact overall dimensions and weight. Please request submittal drawing from factory.

Outline Dimensions (Non-ASME) Model E



Dimensional Data

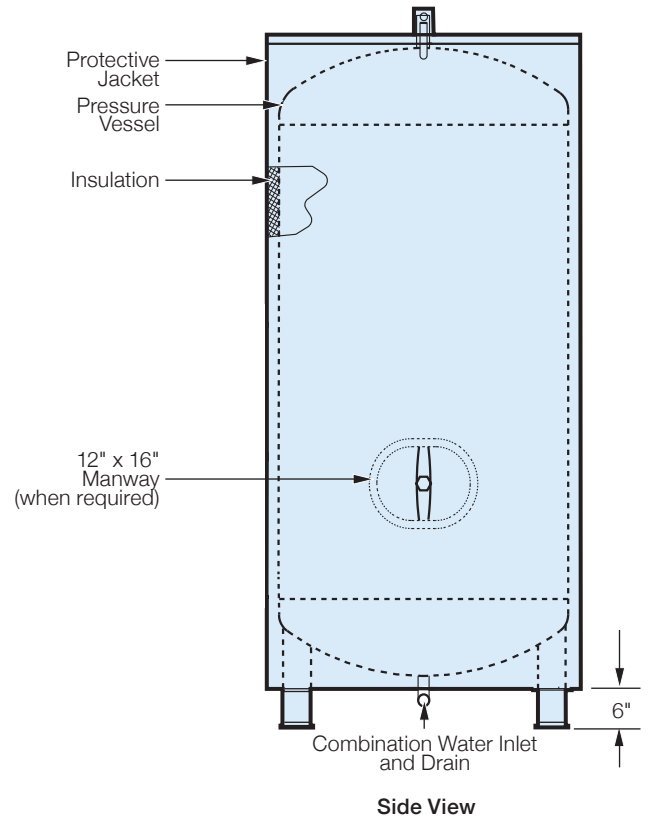
Storage Capacity (Gallons)	Base Model Number	Dimensions (Inches)		Shipping Weight (lbs.)
		Model A Overall Diameter	Model B Overall Height	
6	E06SL	15	17.5	105
10	E10SL	20	21	120
19	E20SL	20	33	150
30	E30SL	20	41.5	185
40	E40SL	20	58.75	240
50	E50SL	22.75	51	270
65	E65SL	26	48	310
80	E80SL	26	58	385
100	E100SL	26	69.5	400
119	E120SL	28	69.25	470
30	EU30SL	22.75	33	205
40	EU40SL	26	33	270
50	EU50SL	28	33	300

Note: All dimensions are approximate and subject to change. Please reference the submittal drawing for actual dimensions. The tank selections above are shown for convenience. A full selection of storage capacities is available by entering the desired capacity into the model number.

Outline Dimensions-ASME Vessel: Model SH (Vertical)

Dimensional Data

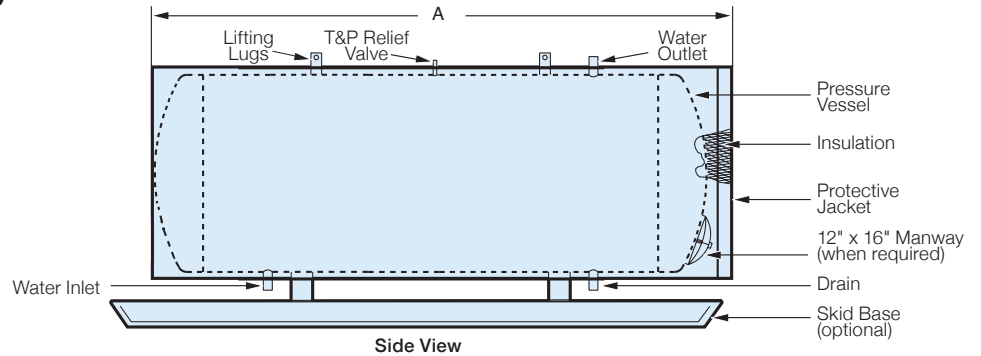
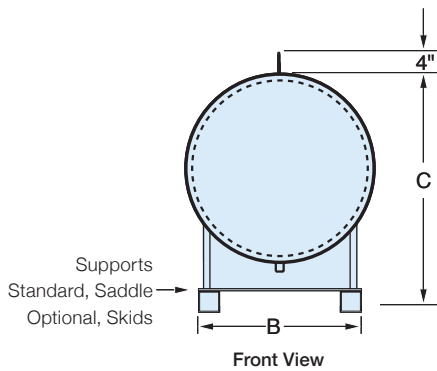
Storage Capacity (Gallons)	Base Model Number	Dimensions (Inches)		Shipping Weight (lbs.)
		A Overall Diameter	B Overall Height	
80*	SH80SL	26	64	700
120*	SH120SL	28	72	900
150*	SH150SL	30	78	1100
175	SH175SL	34	73	1500
200	SH200SL	34	82	1700
225	SH225SL	34	89	1750
250	SH250SL	40	74	1850
275	SH275SL	40	80	2000
300	SH300SL	40	88	2180
350	SH350SL	40	94	2500
400	SH400SL	46	85	2700
450	SH450SL	46	93	3000
500	SH500SL	52	82	3225
600	SH600SL	52	95	3650
700	SH700SL	52	107	4000
800	SH800SL	52	119	4300
900	SH900SL	52	132	4800
1000	SH1000SL	52	145	5200
1250	SH1250SL	58	149	5600
1500	SH1500SL	58	174	6000
2000	SH2000SL	64	185	8100
3000	SH3000SL	76	197	8300
4000	SH4000SL	88	195	9800



Note: All dimensions are approximate and subject to change. Please reference the submittal drawing for actual dimensions. The tank selections above are shown for convenience. A full selection of storage capacities is available by entering the desired capacity into the model number.

*80, 120 and 150 gallon tanks do not come equipped with a manway. Please consult factory if desired on these sizes.

Outline Dimensions - ASME Vessel Model H (Horizontal)

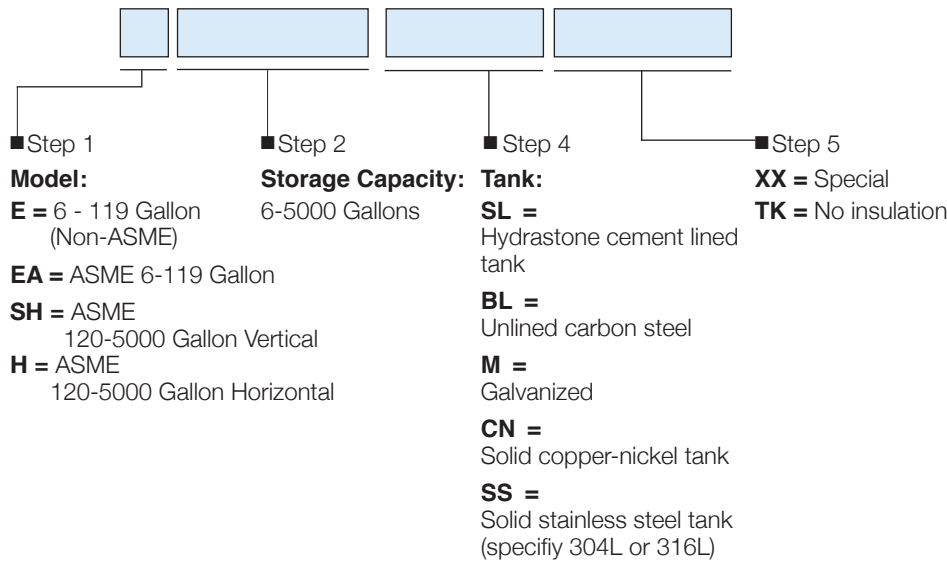


Dimensional Data

Storage Capacity (Gallons)	Base Model Number	Dimensions (Inches)			Shipping Weight (lbs.)
		A Overall Length	B Overall Width	C Overall Height	
80*	H80SL	60	26	32	700
120*	H120SL	71	28	34	900
150*	H150SL	75	30	36	1100
175	H175SL	67	34	40	1500
200	H200SL	76	34	40	1700
225	H225SL	83	34	40	1750
250	H250SL	68	40	46	1850
275	H275SL	74	40	46	2000
300	H300SL	82	40	46	2180
350	H350SL	88	40	46	2500
400	H400SL	79	46	52	2700
450	H450SL	87	46	52	3000
500	H500SL	76	52	58	3225
600	H600SL	89	52	58	3650
700	H700SL	101	52	58	4000
800	H800SL	113	52	58	4300
900	H900SL	126	52	58	4800
1000	H1000SL	139	52	58	5200
1250	H1250SL	143	58	64	5600
1500	H1500SL	168	58	64	6000
2000	H2000SL	179	64	70	8100
3000	H3000SL	191	76	82	8300
4000	H4000SL	189	88	94	9800
5000	H5000SL	200	94	100	11600

Note: All dimensions are approximate and subject to change. Please reference the submittal drawing for actual dimensions. The tank selections above are shown for convenience. A full selection of storage capacities is available by entering the desired capacity into the model number.

Model Number Designation



Example: E80 SL

Model E with a 2" foam insulation storage tank of 80 gallons.

Note:

Any and all optional equipment for a storage vessel must be called out in the written specifications. A model number in and of itself does not reflect any optional equipment selected.



About Hubbell

Hubbell water heaters and water heating systems are trusted all over the world by engineers, mechanical contractors, building owners, specifiers architects, and more. Whatever the application, fuel source, or industry. Hubbell can provide a solution to your water heating needs. We offer an extensive range of water heating products and turnkey/modular packages for Commercial, Industrial, Foodservice, Marine/Offshore and Naval markets.

All Hubbell products are engineered and manufactured in the U.S. in ISO 9001:2008 certified facilities and meet all of the current standards. Hubbell stands behind its products and customers with world-class service, combining cutting-edge technology with the experience to understand even the most complicated and demanding systems.

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