

# SWH-SS Series

Product Enhancement

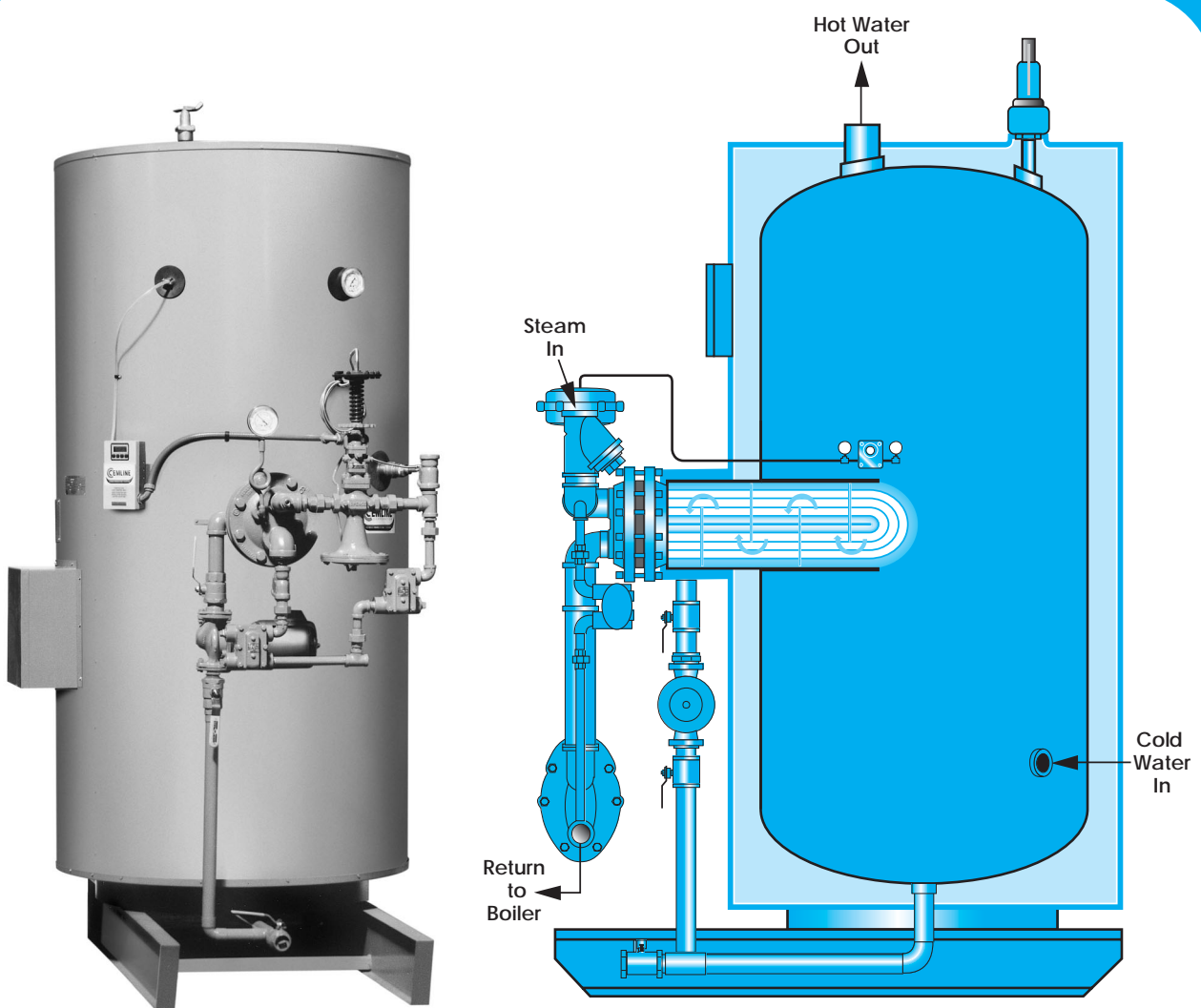


## Vertical STAINLESS STEEL Packaged Water Heaters

*Solid 316-L Stainless Steel Vessel*

*n Energy Sources*

- Steam
- Boiler Water
- High Temperature Hot Water



**CEMLINE CORPORATION**

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[www.cemline.com](http://www.cemline.com)

# Sample Specifications



*For ease in specifying Cemline SWH-SS Water Heaters, use the interactive CD-ROM Sizing Program or go to [www.cemline.com](http://www.cemline.com) on the internet to download Cemline specifications.*

## SWH-SS Water Heaters

Storage heater shall be Cemline Series SWH-SS; factory assembled and packaged. Water heater shall be constructed in accordance with ASME Code for a working pressure of 150 psig. The packaged water heater shall be constructed with a vertical solid 316-L stainless steel tank, with a 12" x 16" manhole (500 and 680 gallon only), with stainless threaded openings, 3/4" O.D. copper tubes, copper lined tube sheet, and steel or cast iron coil head.

### Steam Units

Heater shall be mounted on a steel support skid and shall have concealed lifting lugs. Heater shall be insulated with 3" Fiberglass protected by an enameled metal jacket, 20 gauge minimum thickness. Heater shall be factory assembled and piped including incoming steam strainer, (air) or (pilot) or (electronic) operated temperature regulator, main and auxiliary float and thermostatic steam traps. Coil shall have a stainless steel wrapper, shall be baffled and shall have an integral valved circulator to circulate the water across the coil into the bottom of the tank.

### Boiler Water Units

Heater shall be mounted on a steel support skid and shall have concealed lifting lugs. Heater shall be insulated with 3" Fiberglass protected by an enameled metal jacket, 20 gauge minimum thickness. Heater shall be factory assembled and piped including incoming steam strainer, (air) or (electronic) operated (2) or (3) way temperature regulator. Coil shall have a stainless steel wrapper, shall be baffled and shall have an integral valved circulator to circulate the water across the coil into the bottom of the tank.

Heater shall be provided with a field programmable digital electronic limit control with LCD readout and digital thermometer.

Heater shall be furnished with a water pressure gauge and an A.S.M.E. pressure temperature relief valve of sufficient size to relieve total BTU input of the coil.

Heater shall be provided with a vacuum breaker.  
(Not required with boiler water or HTHW for energy source.)

Manufacturer shall assume responsibility for correct sizing of components to assure performance designated in design criteria.

Heater shall be CEMLINE Corporation Model \_\_\_\_\_.  
Tank dimensions \_\_\_\_\_" diameter x \_\_\_\_\_" tall.  
Storage gallon capacity \_\_\_\_\_.

### Steam Units

Coil to heat \_\_\_\_\_ GPH from \_\_\_\_\_°F to \_\_\_\_\_°F with \_\_\_\_\_ psig steam to the control valve.

### Boiler Water Unit

Coil to heat \_\_\_\_\_ GPH from \_\_\_\_\_°F to \_\_\_\_\_°F with GPM of \_\_\_\_\_°F inlet to \_\_\_\_\_°F outlet hot water.

*Cemline Corporation has an interactive CD-ROM with informational sections and sizing programs. The sizing programs allow the customer to size and select Cemline products. Specifications and drawings can be downloaded to word processing and CAD files. This program is available upon request from Cemline or your Cemline representative.*



- Cemline CD-ROM**
- Graphical Interface
  - Informational Sections
  - Agent Locator
  - Plant Tour
  - Sizing Programs for All Products

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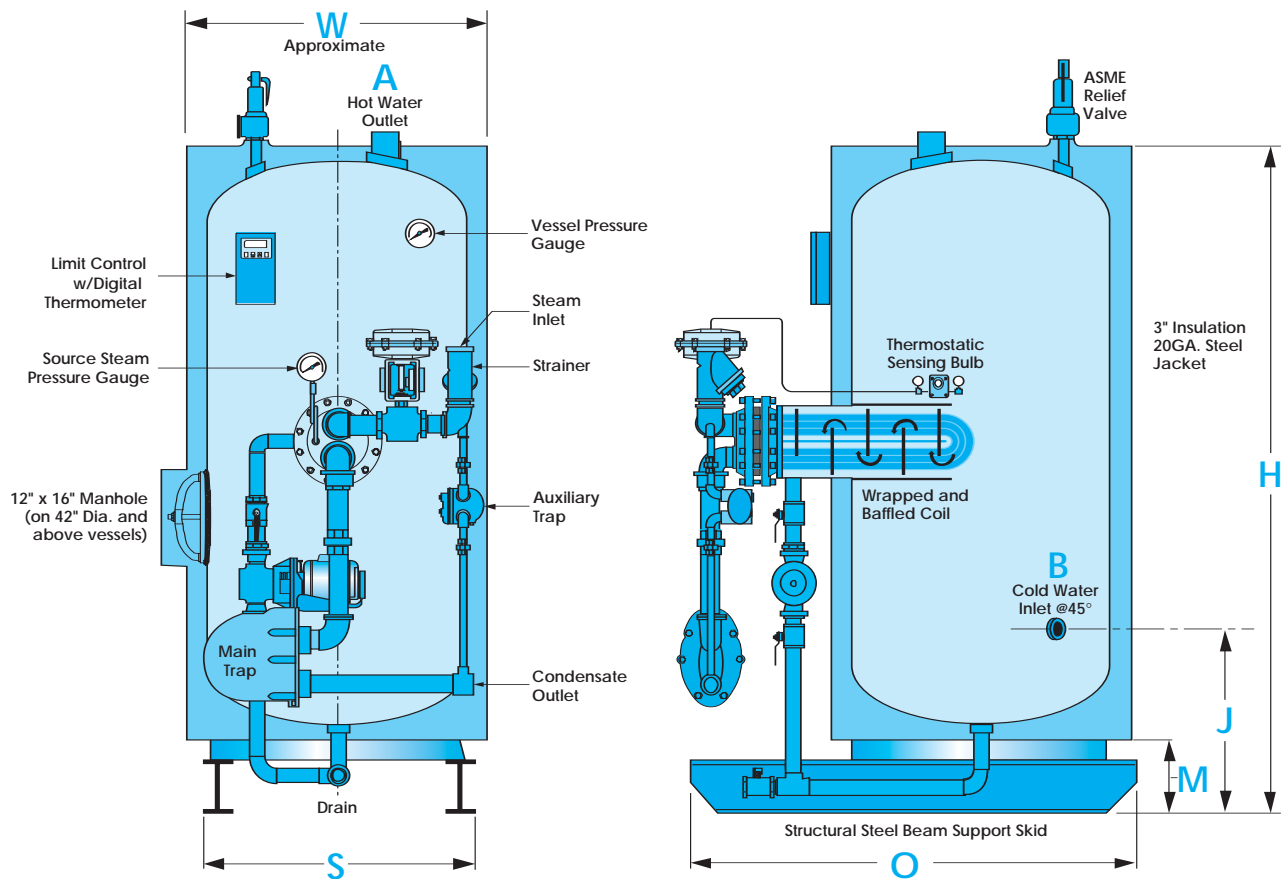
[www.cemline.com](http://www.cemline.com)

# SWH-SS Series Vertical Stainless Steel Storage Systems

Cemline SWH-SS Series Vertical Packaged Heaters are normally piped as shown below.

## Dimensions

The drawing below shows piping with steam as the energy source. If hot water is the energy source traps will not be needed or supplied.



GALLON CAPACITY	MODEL NUMBER	TANK SIZE D x L	W	H	O	J	M	S	A & B
120	V120SWH-SS	24" x 63"	28"	77"	48"	24"	10"	20"	1 1/2"
200	V200SWH-SS	30" x 76"	34"	90"	54"	28"	10"	24"	1 1/2"
300	V300SWH-SS	36" x 80"	40"	94"	60"	28"	10"	25"	1 1/2"
500	V500SWH-SS	42" x 90"	46"	104"	66"	30"	10"	32"	1 1/2"
680	V680SWH-SS	48" x 96"	52"	110"	72"	30"	12"	42"	2"

## Recovery Systems - Steam, Boiler Water, or High Temperature Hot Water.

Coil sizing for SWH-SS can be obtained by using Cemline Corporation's automated sizing program on the Cemline CD Rom or from the internet at [www.cemline.com](http://www.cemline.com). Please contact Cemline or your local representative for sizing or for a copy of the sizing program.

# Standard Equipment

## Cemline Stainless Steel Packaged Water Heaters

*Cemline Stainless Steel water heaters are completely packaged and ready to use. All components are sized, mounted and piped prior to shipment. These heaters come complete and require only connection to services.*

Cemline SWH water heaters are completely packaged and ready for use. All components are sized, mounted and piped prior to shipment. The heaters come complete and require only connection to services.

Cemline Corporation Storage Type Water Heaters are available with a 316-L stainless steel vessel in sizes 120, 200, 300, 500, and 680 gallon capacity. 316-L stainless steel is corrosion

resistant, the vessel is solid 316-L stainless steel and no lining is required.

The Stainless Steel SWH water heaters are supplied with a stainless steel wrapper around the baffled submerged tube bundle. Heat transfer is maximized by forcing the water across the baffled submerged tube bundle.

The use of a stainless steel vessel in SWH Series water heaters has been developed at our customers request for a packaged water heater with an unlined tank. These stainless steel vessels are lighter in weight than the traditionally lined tanks, thus reducing shipping and rigging costs.

### Basic SWH-SS Package Includes:

A.S.M.E. CODE constructed National Board registered storage tank (150 PSIG WP)

316-L Stainless Steel Vessel.

316-L Stainless Steel threaded connections.

3" Fiberglass insulation.

20 gauge steel jacket with hammertone enamel paint.

Structural steel base.

A.S.M.E. relief valve-pressure and temperature.

Electronic temperature gauge.

Water pressure gauge.

Water pressure valve.

Drain valve.

Copper U-Bend heating coil, rolled into copper lined tube.

Integral bronze circulator.

Single solenoid safety system with electronic limit control.

### Standard Steam Package Includes:

Steam temperature control valve tank. (pneumatic, pilot or electronic).

Steam traps-main inlet and auxiliary.

Steam strainer, inlet.

Steam pressure gauge.

### Optional Steam Trim

Steam pressure reducing valve.

Vacuum breaker.

Double solenoid safety system.

Double wall coil.

### Standard Boiler Water/High Temperature Hot Water Package Includes:

Boiler water control valve (two way or three way). Pneumatic or electronic.

Boiler water temperature gauge.

High temperature hot water units with 90:10 CuNi tubing. 400 PSI maximum pressure.

### Optional Boiler Water Trim

Boiler water pump.

Aquastat for boiler water pump.

Double solenoid safety system.

Double wall coil.