



## SuperStor Ultra MAX Solar Water Heater with Electric (SE Series) Back-Up

<b>Job Name:</b>	<b>Location:</b>
<b>Engineer:</b>	<b>Wholesaler:</b>
<b>Mechanical Contractor:</b>	<b>Notes:</b>
<b>Model Number:</b>	
<b>Specifications:</b>	

### Indirect Fired Water Heater Models

- Available in 80 and 115 gallon capacities
- Example Model Number: MSSU-80NSE

### Construction

- 316L stainless steel tank tolerates high temperatures and offers superior corrosion resistance
- Super-insulated with environmentally safe, CFC free, water-blown, extra thick foam insulation
- Allows less than 1/2 degree Fahrenheit per hour heat loss
- Outer jacket constructed of silver finished durable plastic for rust and impact resistance
- 3/4" NPT stainless steel inlet and outlet connections for all models - top tapings
- Top hot water outlet draws the hottest water from the tank
- Top inlet with dip tube directs cold water to the bottom of the tank, minimizing the mixing of cold and heated water and ensuring long draws of hot water
- Temperature and pressure relief valve port
- Stainless steel sensor clip with nut for accurate current temperature measurement inside vessel

### High Efficiency Super Flex Heat Exchanger

- High output corrugated stainless steel heat exchanger provides maximum corrosion resistance with exceptional heat transfer and low pressure drop
- Gasketless heat exchanger design
- Low pressure drop through the heat exchanger
- 1" NPT solar heat exchanger inlet/outlet size - all models

### SE Series Solar Water Heaters

- Back-up Electric Element - 4500W / 240V stainless steel incoloy electric element - provides back-up water heating if solar system fails to keep up with domestic hot water demand
- Surface mounted thermostat control provides timely activation of the back-up electric element

### Additional Features

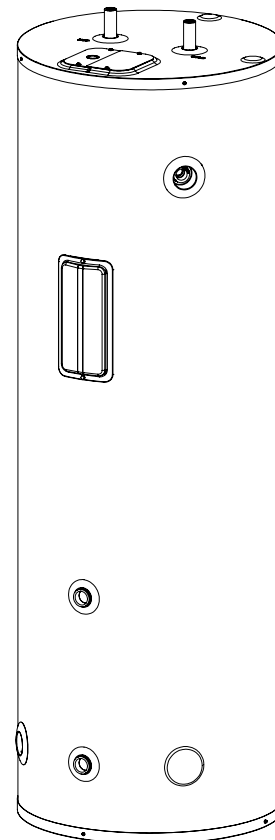
- Standard Limited Residential Use Warranty - Ten (10) years coverage against inner tank leakage from the date of installation
- Extended Limited Residential Use Warranty if registered online - Lifetime coverage against inner tank leakage from the date of installation
- Standard Limited Commercial Use Warranty - Five (5) years coverage against inner tank leakage from the date of installation
- One (1) year warranty coverage on component parts
- May qualify for additional State and Local incentives - ask your installer for more information

### Certifications and Ratings Efficiency

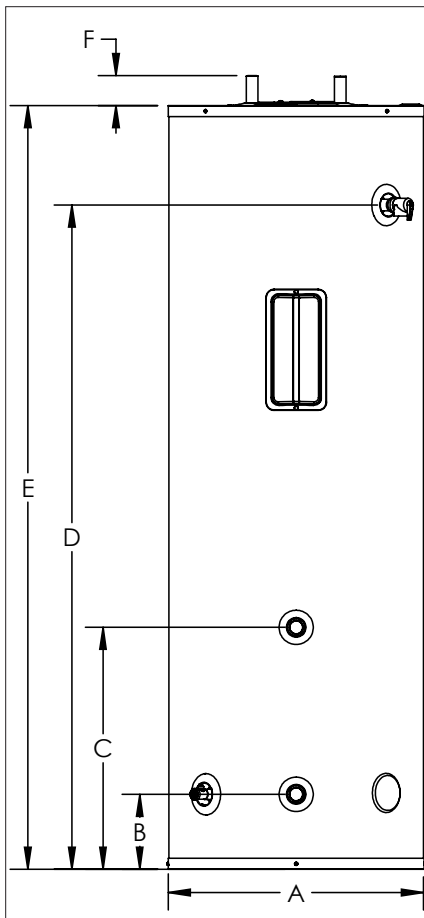
- ETL Design Certified to meet UL 174 Water Heater Construction Standard
- Lead Free compliant per the Safe Drinking Water Act, Section 1417
- Tested below the maximum allowable standby loss levels of current ASHRAE standards according to ANSI test procedures
- Exceeds energy efficiency codes of all states, including California Energy Commission (CEC)

### Installed Components

- Included ASME rated Temperature and Pressure Relief Valve
- Included Brass Drain Valve to drain the water heater
- Included Surface Mount Control



**NOTE:** HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.



MODEL#	GAL.	DIMENSIONS					
		A	B	C	D	E	F
MSSU-80NSE	80	23-1/2"	7-1/4"	21-1/2"	60-1/4"	69"	2-1/2"
MSSU-115NSE	115	27"	7-1/4"	21-1/2"	60-1/4"	69"	2-1/2"

MODEL#	GAL.	HEAT EXCHANGER CONNECTION SIZE	DOMESTIC INLET/OUTLET	APPROX. SHIPPING WEIGHT (lbs)
MSSU-80NSE	80	1" NPT	3/4" NPT	160
MSSU-115NSE	115			235

MODEL	SOLAR HX VOLUME GALLONS	WATER VOLUME OF BACK UP	MAX. OPERATING PRESSURE OF COIL	RECOVERY OF BACK-UP IN MINUTES *		FIRST DRAW**
				65° RISE	90° RISE	
MSSU-80NSE	1	22	150 PSI	63	85	68 GAL.
MSSU-115NSE	1	32		84	112	102 GAL.

LP-784-B  
05/27/21

**Figure 1 - Specifications, Dimensions, and Performance - \*AHRI TEST METHOD BASED ON 77°F TEMPERATURE RISE, 58°F / 135°F W/BOILER WATER AT 180°F**

### Typical Specifications

The SuperStor Ultra Max Solar Water Heater shall be an HTP model # \_\_\_\_\_ with a \_\_\_\_\_ gallon storage capacity. The solar water heater is designed for production of domestic hot water from a solar collector and an electric (SE Series) back-up system.

The tank shall be constructed of 316L stainless steel, and have a working pressure of 150 PSI (1,034 kPa) and test pressure of 300 PSI. The water heater shall be design certified by ETL to meet the UL 174 Water Heater Construction Standard, and meet or exceed the standby loss requirements of ASHRAE.

The SE Series Solar Water Heater shall be equipped with a heat exchanger to transfer heat from the solar collectors. The solar heat exchanger shall be located in the bottom section of the tank, allowing solar energy to heat the entire water volume of the tank. Heat exchanger connection size shall be 1" NPT. This solar hot water heater will be equipped with a sensor location on the bottom of the tank. This sensor will control the operation of the solar heat exchanger.

An electric element shall be located in the upper section of the tank to provide back-up heat when the solar collector cannot maintain the upper operating set point. An adjustable surface mounted thermostat located on the upper portion of the tank activates the electric back-up to maintain the desired set point water temperature.

Domestic inlet / outlet connection size shall be 3/4" NPT and shall have built-in heat traps. All water heaters will be shipped with an ASME Rated temperature and pressure relief valve and a brass drain valve.

Residential use water heaters shall be covered by a standard ten (10) year limited warranty against inner tank leakage, or an extended lifetime limited warranty when registered online with HTP. Commercial use water heaters shall be covered by a standard five (5) year limited warranty against inner tank leakage. See product warranty for specific coverage details.

The surfaces of these products contacted by consumable water contain less than 0.25% lead by weight, as required by the Safe Drinking Water Act, Section 1417.

Maximum unit dimensions shall be length \_\_\_\_\_ inches, width \_\_\_\_\_ inches and height \_\_\_\_\_ inches. Maximum unit weight shall be \_\_\_\_\_ pounds.