SUPERstor CONTENDER SOLAR

GLASS LINED SE SERIES

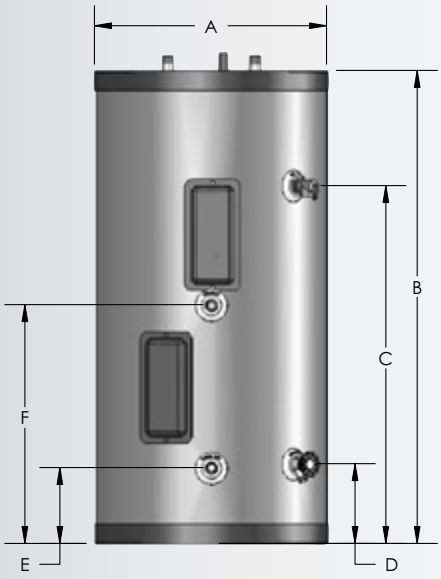
Solar Water Heater (with Back-up Electric Element)

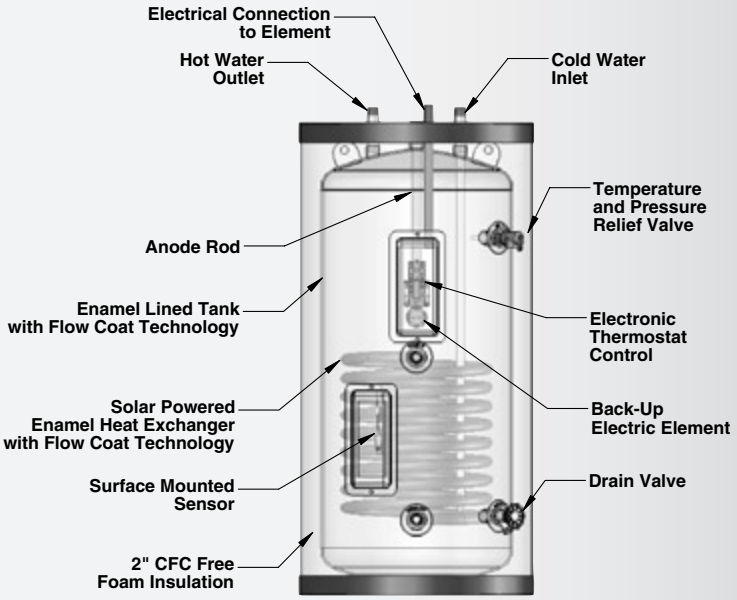
SRCC CERTIFICATION · c UL us LISTED E113265

Heat Transfer
Advanced Heating and Hot Water Systems

Features:

- Specially formulated Enamel Flow Coat guarantees 100% tank coverage. No exposed welds
- Solar Heat Exchanger - provides maximum heat transfer of solar energy into hot water
- Back-Up Electric Element - provides back-up heat source from Electric Element if Solar fails to keep up with hot water demand
- Environmentally safe CFC free water blown, extra thick foam insulation allows less than 1/2 dgree F per hour heat loss, the best in the industry
- Outer Shell constructed of silver finished durable plastic for rust and impact resistance
- Limited warranty – 5 years commercial and 7 years residential
- Factory Supplied Temperature and Pressure Relief Valve and Drain Valve
- SRCC OG300 Certified – applies to Federal Tax Credit when connected to Solar Panel





CONTENDER SOLAR WATER HEATER DIMENSIONS

		DIMENSIONS					
MODEL #	GAL.	A	B	C	D	E	F
SSC-50SE	50	23"	46-1/2"	36-1/2"	8"	7-3/4"	23-1/2"
SSU-80SE	80	23"	71-1/2"	60-1/4"	8"	7-3/4"	33-1/2"
SSU-119SE	119	27"	64"	51"	10-1/2"	10"	27"

ALL DIMENSIONS ARE APPROXIMATE

CONTENDER SOLAR WATER HEATER SPECS

MODEL #	GAL.	HEAT EXCHANGER OUTLET SIZE	INLET/ OUTLET SIZE	SHIPPING WEIGHT (LBS)
SSC-50SE	50	1"	3/4" NPT	175
SSC-80SE	80	1"	1-1/2" NPT	237
SSC-119SE	119	1"	1-1/2" NPT	336

CONTENDER SOLAR GLASS LINED SE SERIES

MODEL	SOLAR HX VOLUME GALLONS	HEATED WATER VOLUME OF BACK UP	RECOVERY OF BACK UP IN MINUTES		FIRST DRAW *	
			65° RISE	90° RISE	65° RISE	90° RISE
SSC-50SE	2 GAL	18 GAL	38 MIN	53 MIN	20 GAL	14 GAL
SSC-80SE	2 GAL	37 GAL	78 MIN	108 MIN	38 GAL	26 GAL
SSC-119SE	2 GAL	67 GAL	141 MIN	196 MIN	70 GAL	46 GAL

* AMOUNT OF WATER DRAWN OUT OF STORAGE TANK WITHOUT ANY ENERGY INPUT

LP-197
03/27/08

Heat Transfer reserves the right to make product changes or updates without notice. Heat Transfer will not be held liable for typographical errors in literature. For questions, please consult the factory.

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GLASS LINED SE SERIES

Solar Water Heater Specifications

This solar hot water storage tank shall be designed for production of domestic hot water from either a solar panel or an electric element. This tank shall be equipped with a heat exchanger to transfer heat from the solar panels. The solar heat exchanger shall be located at the bottom section of the tank to heat the entire water volume of the storage tank. The electric element shall be located on the upper section of the storage tank, providing back up heat if the solar panel is not providing enough heat to maintain the upper operating set point of the tank. The storage tank shall have a capacity of _____ gallons.

This solar hot water storage tank will be equipped with a stud and securing nut to mount a sensor to the tank that will control the operation of the solar heat exchanger. This storage tank will have an additional control located in the upper portion of the tank, which will monitor and control the operation of electric back up heat source to maintain the desired water temperature.

This tank will be constructed with flow coated technology with an applied enamel coating covering 100% of the inner tank surface and heat exchanger. This outer tank shell shall be constructed of high density polyethylene plastic with 2 inches of CFC free polyurethane foam insulation. This tank shall be supplied with a full port drain valve and a T & P with a rated relief pressure of 150 PSI and temperature relief at 210 degrees.

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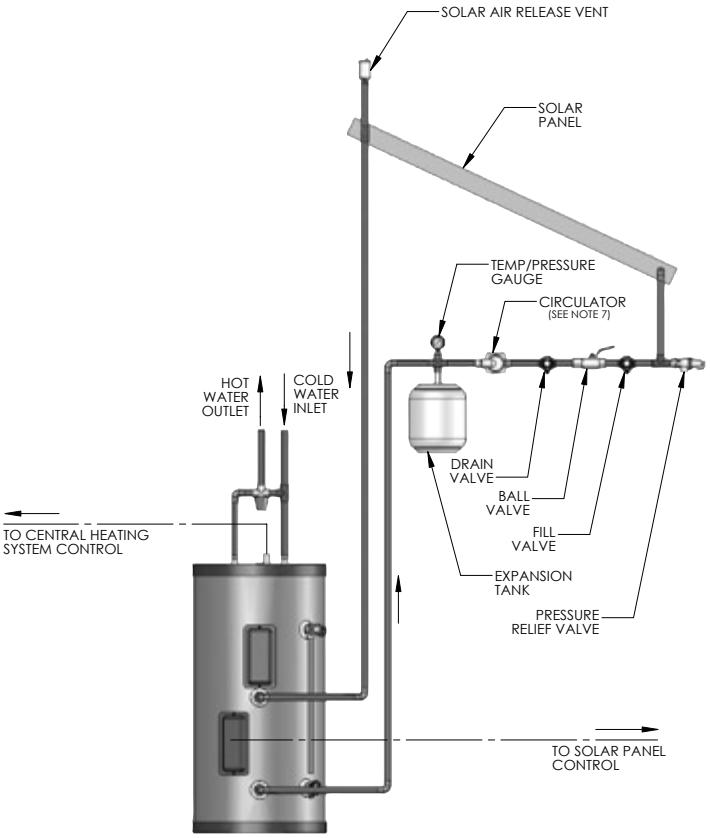
SUPERstor CONTENDER SOLAR SE with Solar Panel



NOTES:

1. THIS DRAWING IS MEANT TO SHOW A SYSTEM PIPING CONCEPT ONLY. THE INSTALLER IS RESPONSIBLE FOR ALL EQUIPMENT AND DETAILING BY LOCAL CODES.
2. * ANTI-FREEZE, NON- POTABLE HEAT TRANSFER FLUID SHALL BE USED FOR THE SOLAR HEAT EXCHANGER CIRCUIT ONLY. NEVER INTRODUCE ANTI-FREEZE SOLUTION TO ANY OTHER CONNECTION OTHER THAN THE SOLAR HEAT EXCHANGER.
3. IF THERE IS A CHECK VALVE ON THE COLD WATER FEED LINE, A THERMAL EXPANSION TANK SUITABLE FOR POTABLE WATER MUST BE SIZED AND INSTALLED WITHIN THIS PIPING SYSTEM BETWEEN THE CHECK VALVE AND THE COLD WATER INLET OF THE SOLAR WATER HEATER. REFER TO FIG 3-1
4. AN ANTI-SCALD MIXING VALVE IS RECOMMENDED IF THE DOMESTIC HOT WATER SETTING IS ABOVE 120F.
5. A MINIMUM OF 12 DIAMETERS OF STRAIGHT PIPE MUST BE INSTALLED UPSTREAM OF ALL CIRCULATORS.
6. **FOR ALL SE MODELS**, MAKE SURE TANK IS FULLY PURGED OF AIR BEFORE POWER IS TURNED ON TO THE ELECTRIC ELEMENT.
7. ALL CIRCULATORS SHOWN ABOVE SHOULD HAVE INTEGRAL FLOW CHECK.

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