

**Typical Specification for HTP
SuperStor Ultra SB and SE Series**

Solar Water Heaters

Models: SSU-60SB/SSU-80SB/SSU-119SB

Models: SSU-60SE/SSU-80SE/SSU-119SE

Guide Specification Sheet

**SuperStor Ultra
Solar Water Heaters**

The SuperStor Ultra Solar Water Heater shall be manufactured by HTP with an identification of model number SSU- _____. The solar water heater is designed for production of domestic hot water from a solar collector, and either a boiler (SB Series) or electric (SE Series) back-up system. The water heater storage tank will have a capacity of _____ gallons.

The SB Series Solar Water Heater shall be equipped with two integral finned tube heat exchangers constructed of 90/10 CU/NI. The solar heat exchanger shall be located in the bottom section of the tank and transfer heat from the solar collectors to heat its entire water volume. The boiler heat exchanger shall be located in the upper section of the storage tank to provide back-up heat when the solar collector cannot maintain the upper operating water heater set point.

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 at the bottom section of the tank, and heat its entire water volume. The electric element shall be located on the upper section of the storage tank to provide back-up heat when the solar collector cannot maintain the upper operating set point.

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. In addition, this water heater will have an additional stainless steel element located in the upper portion of the tank. This control modulates the back-up heat source to maintain the desired set point water temperature. **On SB Series heaters**, the control modulates the operation of the boiler back-up; **on SE Series heaters**, the operation of the electric back-up.

The solar water heater storage tank will be constructed of 316L stainless steel. The outer tank shell shall be constructed of high density polyethylene plastic with 2" of CFC free polyurethane foam insulation. This water heater shall be supplied with a full port drain valve and a temperature and pressure valve rated at 150 PSI and 210°F.

The water heater shall be factory assembled. Complete operating and installation instructions shall be furnished with every heater as packaged by the manufacturer for shipping.

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