

VOYAGER SPECIFICATION

The Voyager Hot Water Heaters shall be Manufactured by Heat Transfer Products, Inc. with identification of model number SSV-_____ or SSVH-_____. The Water Heaters shall be a sealed combustion system, taking only outside air for combustion and exhausting the flue gas with plastic pipe. The intake air shall be piped with plastic PVC or ABS pipe, 3" in diameter and the exhaust gas shall be piped with CVPC or ABS solid NON FOAM CORE for the first 7' only, with the remaining pipe being SCH. 40 or 80 CPVC solid – solid PVC NON FOAM CORE – ABS solid NON FOAM CORE. All related intake air and exhaust gas shall be approved for zero clearance to any combustible surface. The units total combined equivalent venting length, less fitting allowances for both the intake air and exhaust gas shall not exceed 85' in 2 or 3" Pipe or 125' in 4" pipe from the heaters location.

The heaters shall be constructed of 316L stainless steel. The primary condensing heat exchanger shall be constructed of 90/10 cupronickel. The secondary heat exchanger available in the SSVH model only shall be constructed of 90/10 Cupronickel with a diameter of 1-1/4", 11 fins per inch material. The insulation is a water blown foam and shall be 2" thick with rating of 14.2 and 3" on the top of the heater rated at R21.3. Insulation shall be enclosed in a plastic shell. All components shall be located in the front of the heater for easy access for serviceability. All related hardware shall be constructed of stainless steel studs and brass nuts for serviceability.

Operation of the heater shall be in a closed loop pressurized system which must have a properly sized thermal expansion tank or sized per local codes. All heaters shall run at a combustion efficiency of no less than 94%. The water heaters shall be UL/ULC listed and will exceed the minimum efficiency requirements of ASHRAE 90.1b-1992. All heaters will be supplied with an ASME rated temperature pressure relief valve. The control shall be integrated solid state temperature and ignition control device with integral diagnostics, LED fault display capability and a digital display of temperature settings. Operation of the control device shall have a differential range of 2°F to 20°F and a high limit operating range of 70°F to 180°F ("S" models high limit is 180°F, "SA" models high limit is 184°F, "R" models high limit is 160°F) with an ECO switch that resets. The water heaters shall be as follows:

Applicable Residential Use Warranty 1 Year parts, 7 year tank.

Applicable Commercial Use Warranty 1 Year parts, 3 year tank.

The hot water heaters shall be manufactured by Heat Transfer Products, Inc.

NOTE: Heat Transfer Products, Inc., reserves the right to make product changes or to improve products at any time, without prior notice.

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