



SuperStor Ultra Indirect Fired Water Heater Submittal and Specification

| | |
|-------------------------------|--------------------|
| Job Name: | Location: |
| Engineer: | Wholesaler: |
| Mechanical Contractor: | Notes: |
| Model Number: | |
| Specifications: | |

Indirect Fired Water Heater Models

- Available in 20 through 119 gallon capacities
- Example Model Number: SSU-30N

Construction

- 316L stainless steel tank tolerates high temperatures and offers superior corrosion resistance
- Super-insulated with approximately 2" of 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
- Stainless steel inlet and outlet connections for all models - side tapings
- Internal bent hot water outlet tube extracts 5 - 7% more hot water from the top of the tank dome
- Temperature and pressure relief valve port (not available on all models)
- Stainless steel control well for accurate temperature measurement inside vessel

High Efficiency Super Flex Heat Exchanger

- High output finned 90/10 cupronickel heat exchanger provides maximum corrosion resistance and energy transfer to domestic water
- Gasketless heat exchanger design
- Low pressure drop through the heat exchanger
- 1" NPT heat exchanger inlet/outlet size - all models
- Live Steam Applications are allowed ONLY on 80 and 119 gallon SSU / SSU-C models. Pressure of steam in the indirect heat exchanger MUST NOT EXCEED 10 PSI.

Additional Features

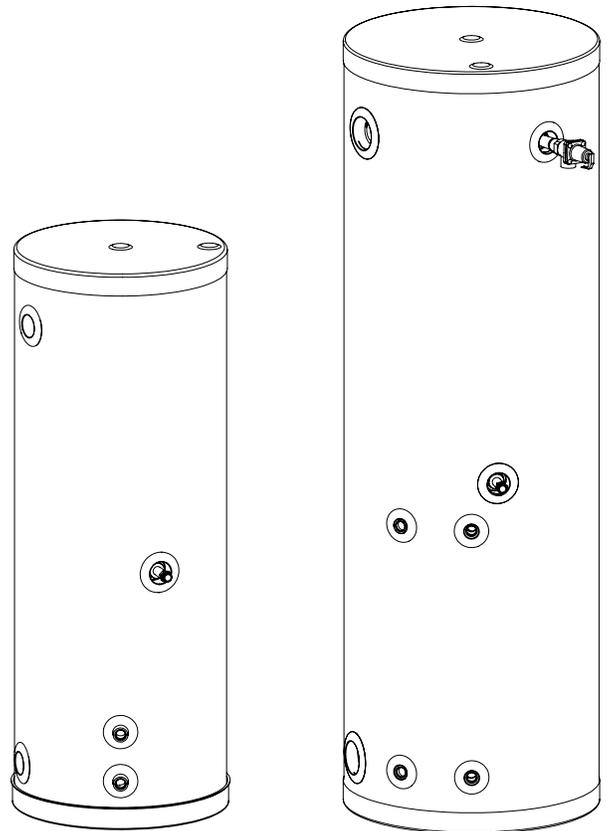
- Standard Limited Residential Use Warranty - Ten (10) years coverage against inner tank leakage from the date of installation
- Extended Limited Residential Use Warranty if registered online - Lifetime coverage against inner tank leakage from the date of installation
- Standard Limited Commercial Use Warranty - Seven (7) years coverage against inner tank leakage from the date of installation
- One (1) year warranty coverage on component parts

Included Components

- ASME rated Temperature and Pressure Relief Valve (not included with all models)
- Brass Piping Adapters
- Control Well

Certifications and Ratings Efficiency

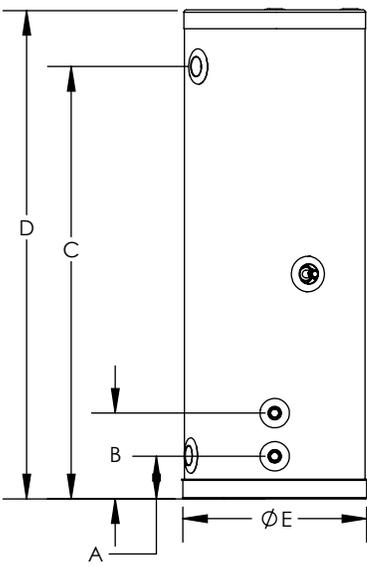
- ETL Design Certified to meet UL 174 Water Heater Construction Standard
- Lead Free compliant per the Safe Drinking Water Act, Section 1417
- Tested below the maximum allowable standby loss levels of current ASHRAE standards according to ANSI test procedures
- Exceeds energy efficiency codes of all states, including California Energy Commission (CEC)
- NSF 5 Listed



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

SUPERSTOR ULTRA

| MODEL | A | B | C | D | E | CAPACITY U.S. GAL. | DOMESTIC CONNECTION | SHIPPING WEIGHT |
|-----------|--------|---------|---------|---------|---------|--------------------|---------------------|-----------------|
| SSU-20N | | | 22" | 27" | 19-1/4" | 20 GAL. | 3/4" NPT | 51 LBS |
| SSU-30N | | | 34" | 39-1/2" | | 30 GAL. | | 62 LBS |
| SSU-30LBN | 5-1/4" | 9-3/4" | 22" | 28-1/2" | 23-1/4" | 30 GAL. | | 71 LBS |
| SSU-45N | | | 46" | 52-1/2" | 19-1/4" | 45 GAL. | | 72 LBS |
| SSU-60N | | | | | 23-1/4" | 60 GAL. | | 109 LBS |
| SSU-80N | 6" | 29" | 64-3/4" | 72" | | 80 GAL. | 1-1/2" NPT | 143 LBS |
| SSU-119N | 7-1/4" | 30-1/4" | 66" | 74" | 27" | 119 GAL. | 1-1/2" NPT | 212 LBS |



SUPERSTOR ULTRA COMMERCIAL

| MODEL | A | B | C | D | E | F | G |
|-----------|--------|--------|-----|---------|---------|---------|---------|
| SSU-60CN | 5-1/4" | 9-3/4" | 14" | 18.75" | 46" | 52-1/2" | 23-1/4" |
| SSU-80CN | 6" | N/A | N/A | 29" | 64-3/4" | 72" | |
| SSU-119CN | 7-1/4" | N/A | N/A | 30-1/4" | 66" | 74" | 27" |

| MODEL | CAPACITY U.S. GAL. | DOMESTIC CONNECTION | SHIPPING WEIGHT |
|-----------|--------------------|---------------------|-----------------|
| SSU-60CN | 60 GAL. | 1" NPT | 126 LBS |
| SSU-80CN | 80 GAL. | 1-1/2" NPT | 175 LBS |
| SSU-119CN | 119 GAL. | | 242 LBS |

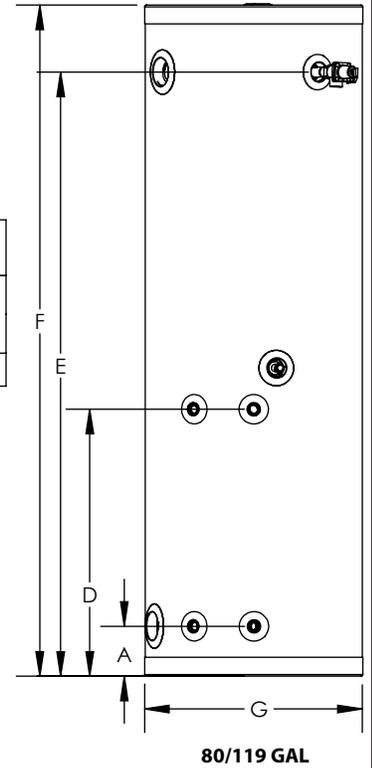
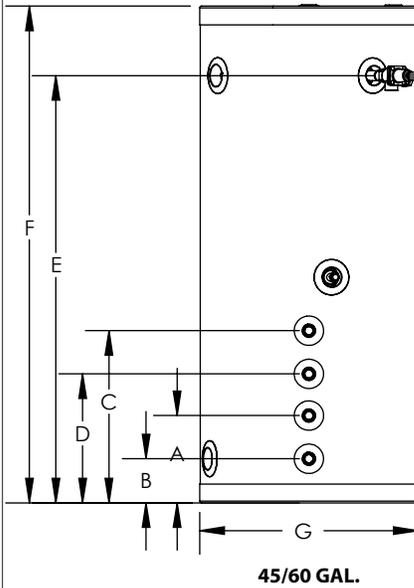


Figure 1 - Specifications, Dimensions, and Performance - *AHRI TEST METHOD BASED ON 77° F TEMPERATURE RISE, 58° F / 135° F W/BOILER WATER AT 180° F

| SUPERSTOR ULTRA | | | | | | | | | | | |
|-----------------|-------------------------------|---------------------|---------------|------------------|--|--------|--|---------|------------------------|------------------------|-----------------------|
| MODEL | HEAT EXCHANGER SURFACE/VOLUME | PRESSURE DROP (FT.) | TEST PRESSURE | WORKING PRESSURE | 180° BOILER WATER FIRST HOUR RATINGS (GAL) * | | 200° BOILER WATER FIRST HOUR RATINGS (GAL) * | | 180° F BOILER BTU/SIZE | 200° F BOILER BTU/SIZE | RECOMMENDED FLOW RATE |
| | | | | | 140° F | 115° F | 140° F | 115° F | | | |
| SSU-20N | 15 SQ. FT./1.5 GAL. | 6.0 | 300 PSI | 150 PSI | 121 | 168 | 136 | 185 | 84,000 | 87,000 | 8 |
| SSU-30N | | | | | 154 | 212 | 172 | 234 | 102,000 | 117,000 | |
| SSU-30LBN | | | | | 169 | 234 | 189 | 257 | 114,000 | 131,000 | |
| SSU-45N | 20 SQ. FT./2.0 GAL. | 7.9 | | | 212 | 292 | 237 | 322 | 141,000 | 161,000 | 10 |
| SSU-60N | | | | | 266 | 370 | 298 | 405 | 174,000 | 198,000 | |
| SSU-80N | 34 SQ. FT./3.0 GAL. | 9.1 | | | 330 | 440 | 370 | 503 | 212,000 | 241,000 | 12 |
| SSU-119N | | 11.3 | 423 | 564 | 474 | 645 | 269,000 | 301,000 | 14 | | |

| SUPERSTOR ULTRA COMMERCIAL | | | | | | | | | | | |
|----------------------------|-------------------------------|---------------------|---------------|------------------|--|--------|--|--------|------------------------|------------------------|-----------------------|
| MODEL | HEAT EXCHANGER SURFACE/VOLUME | PRESSURE DROP (FT.) | TEST PRESSURE | WORKING PRESSURE | 180° BOILER WATER FIRST HOUR RATINGS (GAL) * | | 200° BOILER WATER FIRST HOUR RATINGS (GAL) * | | 180° F BOILER BTU/SIZE | 200° F BOILER BTU/SIZE | RECOMMENDED FLOW RATE |
| | | | | | 140° F | 115° F | 140° F | 115° F | | | |
| SSU-45CN | 40 SQ. FT./4.0 GAL. | 6.8 | 300 PSI | 150 PSI | 314 | 414 | 351 | 477 | 215,000 | 246,000 | 20 |
| SSU-60CN | | 9.2 | | | 354 | 467 | 396 | 539 | 245,000 | 270,000 | 22 |
| SSU-80CN | 68 SQ. FT./6.0 GAL. | 10.0 | | | 490 | 647 | 548 | 745 | 331,000 | 374,000 | 24 |
| SSU-119CN | | 12.7 | | | 637 | 841 | 713 | 970 | 425,000 | 490,000 | 28 |

*DOE TEST METHOD BASED ON 90° F TEMPERATURE RISE, 50° /140° W/BOILER WATER AT 180° F

NOTE: TANK RECOVERY FROM COLD START WILL BE BETWEEN 10-13 MINUTES WHEN SIZED WITH CORRECT FLOW RATE, BOILER SIZE AND PRESSURE DROP RATINGS FROM LIST IN ABOVE CHART.

LP-730-A
9/24/21

Table 1 - Specifications

Continuous Flow Performance Calculation

First Hour Rating - (.75 X Tank Capacity) = Continuous Flow

Example: SSU-45CN = 314 - (.75 X 45) = 280.25

Typical Specifications

The indirect fired water heater shall be an HTP model # _____ with a _____ gallon storage capacity, with a recommended boiler input of _____ BTU/hr and a 180°F (82.2°C) boiler input first hour rating of _____ Gallons at 140°F (60°C).

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.

Water heaters shall be supplied with _____" NPT stainless steel side inlet and outlet connections. The outlet connection features a bent tube to draw the hottest water from the top of the tank.

The water heater shall be equipped with a stainless steel control well. Some water heaters will be shipped with an ASME Rated temperature and pressure relief valve.

Models with a "C" Suffix are equipped with dual heat exchangers for indirect hot water heating from multiple sources.

Models with an "A" Suffix ship with an installed anode rod.

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 seven (7) 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.

Water heaters shall be listed to meet the requirements of NSF Standard 5.

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