



SuperStor Ultra Water Heaters Submittal Sheet

JOB NAME:

LOCATION:

ARCH./ENGR.:

WHOLESALE:

MECH. CONTRACTOR:

MODEL NUMBER:

NOTES:

Stainless Steel Tank

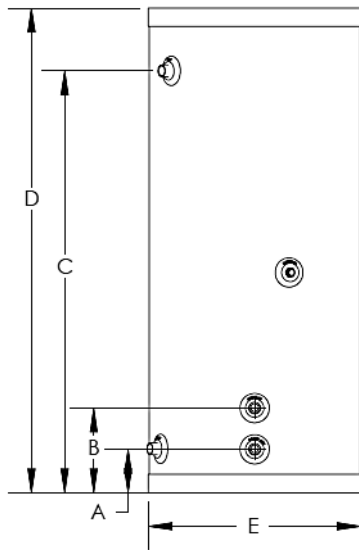
- Tank constructed of type 316L stainless steel for tolerance of high temperatures and superior corrosion resistance
- Insulated with approximately 2" of environmentally safe, CFC free, water-blown, extra thick foam insulation
- Allows less than 1/2 degree Fahrenheit per hour heat loss
- Outer shell constructed of silver finished durable plastic for rust and impact resistance
- NPT stainless steel inlet and outlet domestic connections for all models – side tapings
- Temperature and pressure relief valve port
- Stainless steel control well for accurate current temperature measurement inside vessel
- Internal bent hot water outlet tube extracts 5 – 7% more hot water off the top of the tank dome

Additional Features

- Limited warranty – Lifetime residential and 7 years commercial coverage
- ETL Listed
- NSF Listed Components
- Lead Free Compliant, as required by the Safe Drinking Water Act, Section 1417

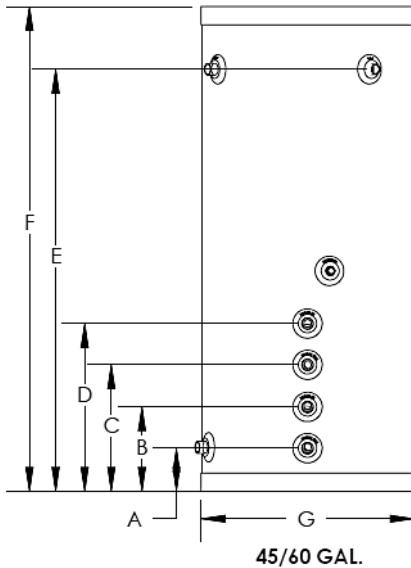
High Efficiency Heat Exchanger

- High output finned 90/10 cupronickel heat exchanger provides corrosion resistance and maximum heat transfer of solar energy to domestic water
- Gasketless heat exchanger design
- 1" NPT heat exchanger inlet/outlet size – all models



SUPERSTOR ULTRA

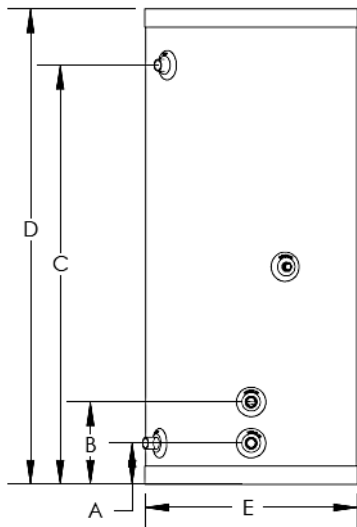
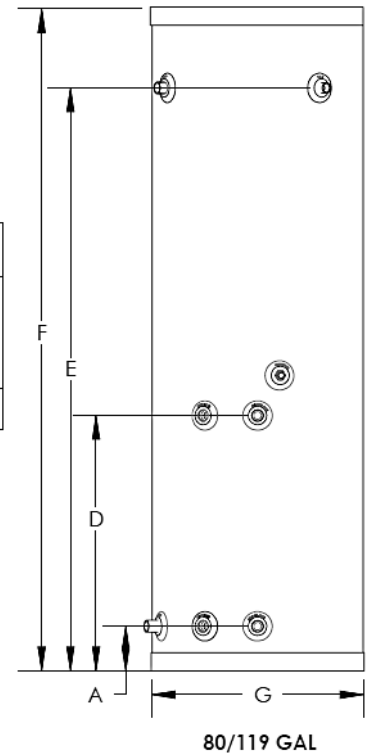
| MODEL | A | B | C | D | E | CAPACITY U.S. GAL. | DOMESTIC CONNECTION | SHIPPING WEIGHT |
|----------|--------|---------|---------|---------|---------|-----------------------|------------------------|--------------------|
| SSU-20 | 5-1/4" | 9-3/4" | 22" | 27" | 19-1/4" | 20 GAL. | 3/4" NPTM | 51 LBS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



SUPERSTOR ULTRA COMMERCIAL

| MODEL | A | B | C | D | E | F | G |
|----------|--------|--------|-----|---------|---------|---------|---------|
| SSU-45C | 5-1/4" | 9-3/4" | 14" | 18.75" | 35" | 42" | 23-1/4" |
| SSU-60C | | | | | 46" | 52-1/2" | |
| SSU-80C | 6" | N/A | N/A | 29" | 64-3/4" | 72" | |
| SSU-119C | 7-1/4" | N/A | N/A | 30-1/4" | 66" | 74" | 27" |

| MODEL | CAPACITY U.S. GAL. | DOMESTIC CONNECTION | SHIPPING WEIGHT |
|----------|-----------------------|------------------------|--------------------|
| SSU-45C | 45 GAL. | 3/4" NPTM | 106 LBS |
| SSU-60C | 60 GAL. | 1" NPTM | 126 LBS |
| SSU-80C | 80 GAL. | 1-1/2" NPTM | 175 LBS |
| SSU-119C | 119 GAL. | | 242 LBS |



SUPERSTOR ULTRA DOUBLE WALL

| MODEL | A | B | C | D | E | CAPACITY U.S. GAL. | DOMESTIC CONNECTION | SHIPPING WEIGHT |
|-----------|--------|---------|---------|---------|---------|-----------------------|------------------------|--------------------|
| SSU-45DW | 5-1/4" | 9-3/4" | 46" | 52-1/2" | 19-1/4" | 45 | 3/4" NPTM | 81 LBS. |
| SSU-60DW | | | | | 23-1/4" | 60 | 1" NPTM | 112 LBS. |
| SSU-80DW | 6" | 21" | 64-3/4" | 72" | | 80 | 1-1/2" NPTM | 139 LBS. |
| SSU-119DW | 7-1/4" | 22-1/2" | 66" | 74" | 27" | 119 | | 210 LBS. |

| 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-20 | 15 SQ. FT./1.,5 GAL. | 6.0 | 300 PSI | 150 PSI | 121 | 168 | 136 | 185 | 84,000 | 87,000 | 8 | | |
| SSU-30 | | | | | 154 | 212 | 172 | 234 | 102,000 | 117,000 | | | |
| SSU-30LB | | | | | 169 | 234 | 189 | 257 | 114,000 | 131,000 | | | |
| SSU-45 | 20 SQ. FT./2.0 GAL. | 7.9 | | | | | 212 | 292 | 237 | 322 | 141,000 | 161,000 | 10 |
| SSU-60 | | | | | | | 266 | 370 | 298 | 405 | 174,000 | 198,000 | |
| SSU-80 | 34 SQ. FT./3.0 GAL. | 9.1 | | | | | 330 | 440 | 370 | 503 | 212,000 | 241,000 | 12 |
| SSU-119 | | 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-45C | 40 SQ. FT./4.0 GAL. | 6.8 | 300 PSI | 150 PSI | 314 | 414 | 351 | 477 | 215,000 | 246,000 | 20 |
| SSU-60C | | 9.2 | | | 354 | 467 | 396 | 539 | 245,000 | 270,000 | 22 |
| SSU-80C | 68 SQ. FT./6.0 GAL. | 10.0 | | | 490 | 647 | 548 | 745 | 331,000 | 374,000 | 24 |
| SSU-119C | | 12.7 | | | 637 | 841 | 713 | 970 | 425,000 | 490,000 | 28 |

| SUPERSTOR ULTRA DOUBLEWALL | | | | | | | | | |
|----------------------------|-------------------------------|-----------------------------|---------------------|---------------|--|--------|--|--------|------------------------|
| MODEL | HEAT EXCHANGER SURFACE/VOLUME | RECOMMENDED FLOW RATE (GPM) | PRESSURE DROP (FT.) | TEST PRESSURE | 180° BOILER WATER FIRST HOUR RATINGS (GAL) * | | 200° BOILER WATER FIRST HOUR RATINGS (GAL) * | | 180° F BOILER BTU/SIZE |
| | | | | | 140° F | 115° F | 140° F | 115° F | |
| SSU-45DW | 15 SQ.FT/1.5 GAL | 6 | 8.2 | 300 PSI | 40 | 63 | 70 | 108 | 107,000 |
| SSU-60DW | | 7 | 12.8 | | 50 | 76 | 90 | 144 | 176,000 |
| SSU-80DW | | 10 | 13.6 | | 72 | 113 | 138 | 215 | 208,000 |
| SSU-119DW | | 12 | 15.9 | | 110 | 171 | 210 | 326 | 231,000 |

*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-83-BB
04/17/12

CONTINUOUS FLOW PERFORMANCE CALCULATION

FIRST HOUR RATING – (.75 X TANK CAPACITY) = CONTINUOUS FLOW

EXAMPLE: SSU-45C = 314 – (.75 X 45) = 280.25