



## SuperStor Ultra Water Heaters

**JOB NAME:**

**LOCATION:**

**ARCH./ENGR.:**

**WHOLESALE:**

**MECH. CONTRACTOR:**

**MODEL NUMBER:**

**NOTES:**

### Stainless Steel Tank

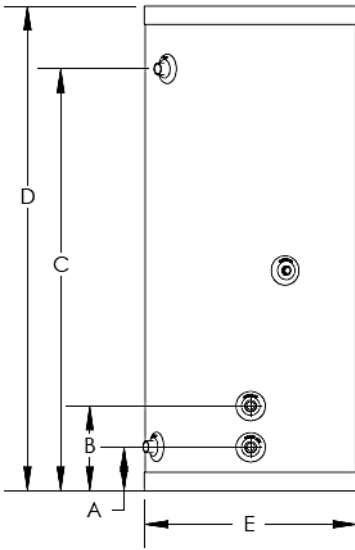
- Tank constructed of type 316L stainless steel for tolerance of high temperatures and superior corrosion resistance
- Insulated with environmentally safe, CFC free, water-blown, extra thick foam insulation
- Allows less than ½ degree Fahrenheit per hour heat loss
- Outer shell constructed of silver 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

### 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

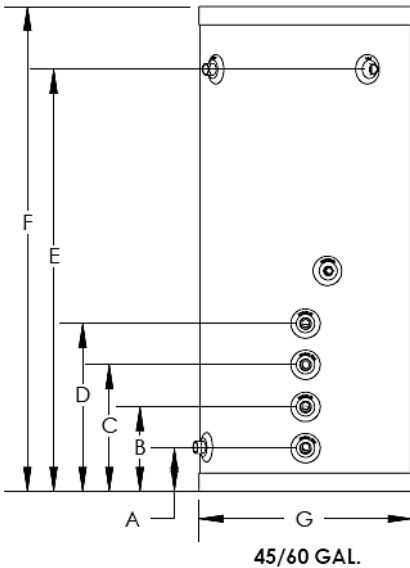
### Additional Features

- 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



## SUPERSTOR ULTRA

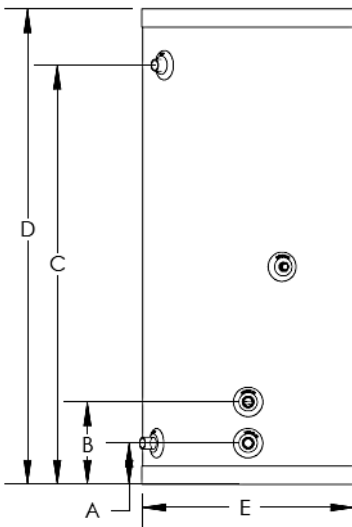
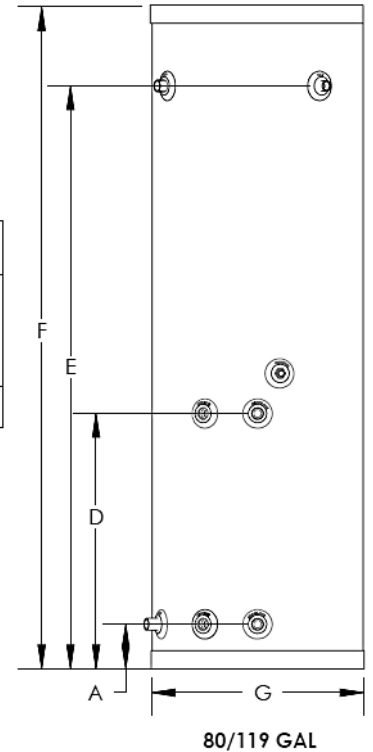
MODEL	A	B	C	D	E	CAPACITY U.S. GAL.	DOMESTIC CONNECTION	SHIPPING WEIGHT
SSU-20	5-1/4"	9-3/4"	22"	27"	19-1/4"	20 GAL.	3/4" NPTM	51 LBS
SSU-30			34"	39-1/2"		30 GAL.		62 LBS
SSU-30LB			22"	28-1/2"	23-1/4"	30 GAL.		71 LBS
SSU-45			46"	52-1/2"	19-1/4"	45 GAL.		72 LBS
SSU-60	6"	29"	64-3/4"	72"	23-1/4"	60 GAL.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



## 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"	27"	80	1-1/2" NPTM	139 LBS.
SSU-119DW	7-1/4"	22-1/2"	66"	74"		119		210 LBS.

# SUPERSTOR ULTRA SPECIFICATIONS

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		

\*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.

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

\*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.

SUPERSTOR ULTRA DOUBLEWALL										
MODEL	HEAT EXCHANGER SURFACE/VOLUME	RECOMMENDED FLOW RATE (GPM)	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
						140° F	115° F	140° F	115° F	
SSU-45DW	15 SQ.FT/1.5 GAL	6	8.2	300 PSI	150 PSI	70	108	40	63	107,000
SSU-60DW		7	12.8			90	144	50	76	176,000
SSU-80DW		10	13.6			138	215	72	113	208,000
SSU-119DW		12	15.9			210	326	110	171	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  
08/05/11

## CONTINUOUS FLOW PERFORMANCE CALCULATION

**FIRST HOUR RATING – (.75 X TANK CAPACITY) = CONTINUOUS FLOW**  
**EXAMPLE: SSU-45C = 314 – (.75 X 45) = 280.25**