



SuperStor Ultra Water Heaters

JOB NAME:

LOCATION:

ARCH./ENGR.:

WHOLESALER:

MECH. CONTRACTOR:

MODEL NUMBER:

NOTES:

Stainless Steel Tank

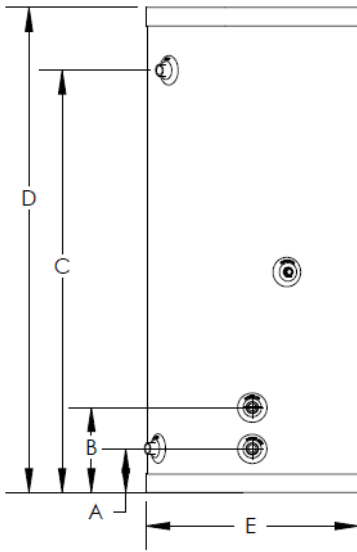
- Tank constructed of type 316L stainless steel for tolerance of high temperatures and superior corrosion resistance
- Insulated with environmentally safe, CFC free, water-blown, extra thick foam insulation
- Allows less than ½ degree Fahrenheit per hour heat loss
- Outer shell constructed of silver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

Additional Features

- Limited warranty – Lifetime residential and 7 years commercial coverage
- UL Listed File #E113265 per UL 174 and Canadian Standard C22.2 No. 110-M90
- NSF Listed Components

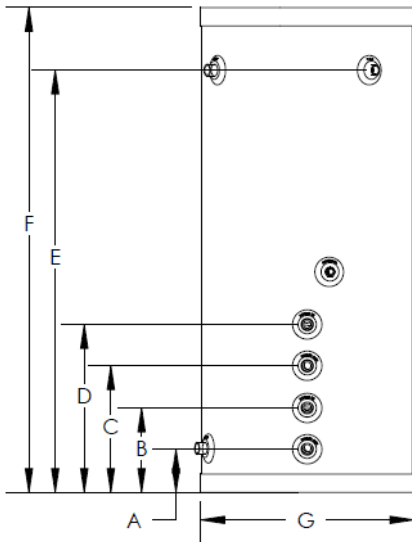
High Efficiency Heat Exchanger

- 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	4-1/2"	9"	22"	27"	19-1/4"	20 GAL.	3/4" NPTM	60 LBS
SSU-30			34"	39-1/2"		30 GAL.		72 LBS
SSU-30LB			22"	28-1/2"	23-1/4"	45 GAL.		88 LBS
SSU-45			46"	52-1/2"	19-1/4"	60 GAL.		1" NPTM
SSU-60	6"	29"	64-3/4"	72"	23-1/4"	80 GAL.	1-1/2" NPTM	141 LBS
SSU-80	7-1/4"	30-1/4"	66"	74"	27"	119 GAL.	1-1/2" NPTM	210 LBS

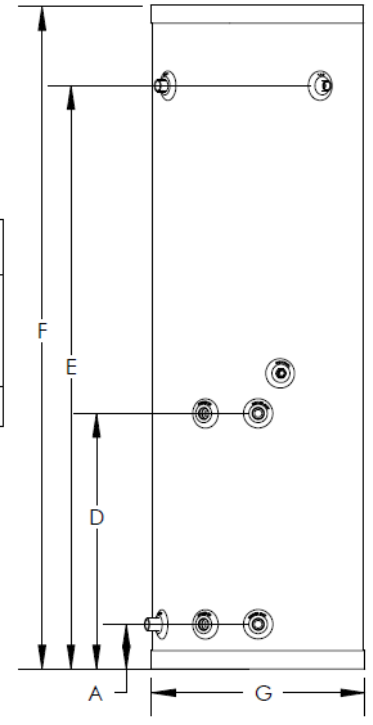


45/60 GAL.

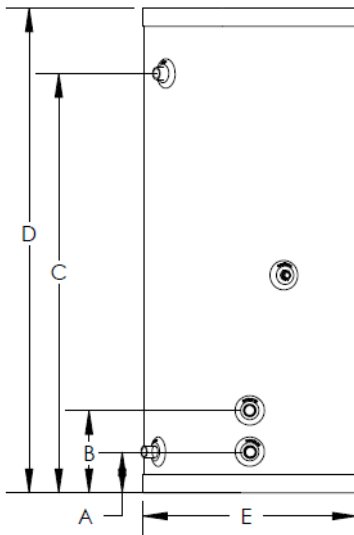
SUPERSTOR ULTRA COMMERCIAL

MODEL	A	B	C	D	E	F	G
SSU-45C	4-1/2"	9"	13-1/2"	18"	35"	42"	23-1/4"
SSU-60C			13"	18"	46"		
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"	19-1/4"

MODEL	CAPACITY U.S. GAL.	DOMESTIC CONNECTION	SHIPPING WEIGHT
SSU-45C	45 GAL.	3/4" NPTM	99 LBS
SSU-60C	60 GAL.		115 LBS
SSU-80C	80 GAL.		141 LBS
SSU-119C	119 GAL.		210 LBS



80/119 GAL



SUPERSTOR ULTRA DOUBLE WALL

MODEL	A	B	C	D	E	CAPACITY U.S. GAL.	DOMESTIC CONNECTION	SHIPPING WEIGHT
SSU-45DW	4-1/2"	9"	46"	52-1/2"	19-1/4"	45	3/4" NPTM	88 LBS.
SSU-60DW					23-1/4"	60	1" NPTM	110 LBS.
SSU-80DW	6"	21"	64-3/4"	72"	27"	80	1-1/2" NPTM	141 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