

Select® Export RESIDENTIAL ELECTRIC WATER HEATERS

ES6 - 6/10/20 SOMS/20 SOMT

ES6 - 30/40/52/66/80/120 DORT

ES6 - 30/40/50 DORS

ES6 - 30/40/50 DOL(N)S

ES6 - 30/40 SOMS



- Tall, short and low models are available to accommodate available space for installation of a central household water heater. Compact point of use models are available with side-mounted plumbing and electrical connections (optional top-mounted water connections for field conversion). Compact models are designed for installation under a counter, in a crawl space or in other tight spaces.
- Immersion heating element. Standard supplied with a incoloy element of 4.5 kW, operating at 220 - 240 Volt. Other element options are available, depending upon model, in a range from 1.5 to 4.5 kW.
- Surface mounted control thermostats with a temperature range from 43°C /110°F to maximum 71°C /160°F and hi-limit factory fixed setting at 83°C /180°F.
- Thermostats are accurate to $\pm 2.5^{\circ}\text{C} / 5^{\circ}\text{F}$.
- Dynaclean™ diffuser dip tube carries incoming cold water from the top connection, to the bottom of the tank to minimize mixing with the hot water in the tank.
- The special diffuser also helps reduce lime and sediment buildup while maximizing hot water output. Made from long-lasting PEX cross-linked polymer.
- Coregard™ anode rod. Magnesium anode with stainless steel core protects tank against corrosion longer than ordinary steel anodes.
- Durable, tamper-resistant brass drain valve
- The internal pressure tank is constructed of heavy duty carbon steel. Maximum working pressure is rated at 150 psi / 10 bar. Test pressure per UL 174 std is 300 psi/20 Bar.
- Specially developed glass coating protects steel tank from corrosion and maximizes tank life.
- CSA/ASME certified T&P relief valve. Factory installed, side-mounted T&P safety relief valve is standard on all models.
- Heat traps. All models are equipped with factory installed heat traps on the inlet and outlet connections to improve energy efficiency.
- Meets or exceeds stand by and efficiency requirements of ASHRAE/IES90.1, IEC60379, SASO 2884, UAE.S 5010-4.2014
- Certifications. Residential export water heaters comply with UL 174, SASO (limited model range), GSO, PAI and IEC 60335-2-21.



هيئة التقييس
لدول مجلس التعاون لدول الخليج العربية
GCC Standardization Organization



الهيئة السعودية للمواصفات والمقاييس والجودة
Saudi Standards, Metrology and Quality Org.

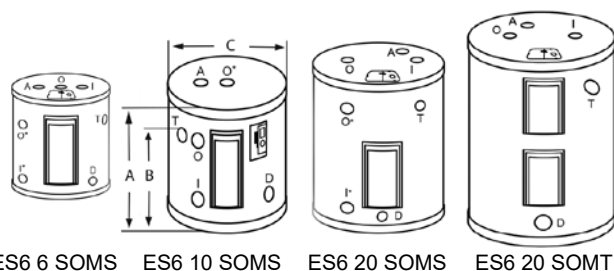
SAMPLE SPECIFICATION

The heater(s) shall be floor standing residential glass lined water heaters, model _____ as manufactured by STATE Industries or equivalent. Heater(s) shall be rated at _____ 4.5 kW _____ 220-240 V _____ 1 phase, 50/ 60 cycle AC and listed by Underwriters' Laboratories. The water heaters will be rated for maximum 150 psi working pressure and pressure tested at 300 PSI per UL standard 174. Each heater will be equipped with extruded high density anodes. All internal surfaces of the heater(s) exposed to water shall be glass-lined with an alkaline borosilicate composition that has been fused to steel by firing at a temperature 1600°F. Element operation shall be non-simultaneous. Staging will be arranged by a higher temperature setting of the lower thermostat, which will then start immediately when hot water is used and cold water flows into the tank. The top thermostat will be used as booster for quick recovery during high demand periods. The heater tank shall have a six year limited warranty and controls and accessories shall have a six years limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included. The heater will meet or exceeds the thermal efficiency and standby loss requirements of the current edition of ASHRAE/IES 90.1.

Model number	Gallon capacity	Litres	No of elements	Energy factor	First hour rating litres @ 60°C	Standard element wattage	Recovery @ 45°C rise litres/ per hour	Dimensions in inches			Approx. shipping weight (kg)
								A	B	C	
Compact models											
ES6 6 SOMS K	5,3	20	1	-	45	1500	29	15-1/4	10-3/4	14-1/4	16
ES6 10 SOMS K	7,9	30	1	-	53	1500	29	18-1/4	12-1/4	16	18
ES6 20 SOMS K	17,2	65	1	-	100	2500	48	24-3/4	18-5/8	18	31
ES6 20 SOMT K	17,2	65	1	-	100	2500	48	31-5/8	25-3/4	16	31
Tall Models											
ES6 30 DORT	28	106	2	0,93	172	3500	87	46-1/2	39-1/2	18	40,5
ES 6 40 DORT	36	137	2	0,92	197	3500	87	59-1/2	53-1/2	18	47,7
ES 6 52 DORT	45	170	2	0,91	227	4500	87	58-1/4	51-1/2	20	52,2
ES 6 55 DORT	54	205	2	0,9	251	4500	87	56-1/2	48-1/2	22	60,3
ES6 66 DORT	60	225	2	0,88	267	4500	87	60	53	20-1/2	80,1
ES6 80 DORT	73	275	2	0,86	307	4500	87	60-1/2	52	22-1/2	93,6
ES6 120 DORT	106	400	2	0,83	407	4500	87	61-1/2	54-3/4	28	125,1
Short Models											
ES6 30 DORS	26	100	2	0,93	169	4500	87	39	31	20	40,5
ES6 40 DORS	36	135	2	0,92	197	4500	87	47-1/2	40-3/4	20	46,35
ES6 50 DORS	48	175	2	0,9	239	4500	87	48	40-1/3	21-1/2	54,45
Lowboy Models											
ES6 30 DOLS	28	106	2	0,93	172	4500	87	30	22-1/2	22	40,95
ES6 30 SOMS K	28	106	1	0,93	172	4500	87	30	22-3/4	22	49,95
ES6 40 DOLNS	35	130	2	0,92	202	4500	87	31-1/2	24	24-1/4	50,85
ES6 40 SOMS K	35	130	1	0,92	202	4500	87	31-1/2	25-5/8	24	51,75
ES6 50 DOLS	48	165	2	0,91	239	4500	87	31-5/8	26	26	59,85

Element options for export models (depending on model and national codes of importing country):

- Alternative incoloy sheathed elements with Ni-Chrome resistance wire embedded in magnesium oxide are available in a range of 1.5 to 4.0 kW, rated 230 Volt, suitable for 220-240 Volt power supply.
- Alternative incoloy sheathed elements for three phase power supply are available for 3.0 or 4.5 kW, rated 415 Volt, suitable for 380-415 Volt, 3 phase, 50/60 Hz power supply.



ES6 6 SOMS ES6 10 SOMS ES6 20 SOMS ES6 20 SOMT

- Legenda:
- I Inlet
 - O Outlet
 - D Drain
 - T T&P
 - A Anode