STE

Glass-lined industrial electric water heater

STE - 1000/1500/2000/2500/3000



Picture: Tank with flexible jacket, factory mounted elements and control panel. Model STE 2008-60 CP

Electric water heater for industrial and commercial applications • Steel glass lined tank with glass lining for corrosion protection • Maximum working pressure 8 bar, test pressure 11 bar • Manhole 400mm • T&P relief factory supplied • Flexible fibre glass insulation blanket, supplied separate for on-site mounting • Electric package with incoloy sheeted elements (15 to 60 kW), control and hi-limit thermostat supplied loose for on-site mounting

Options:
Factory mounted heating package with control panel including main power disconnect door interlock switch, transformer for 230 Volt control circuit, contactors, step indication lights and override switch, immersion control and hi-limit thermostat • Temperature gauge • Rigid aluminium jacket with 8 cm fiberglass insulation supplied in separate crate for on-site mounting • Build-in glass lined heat exchanger for use with solar collectors

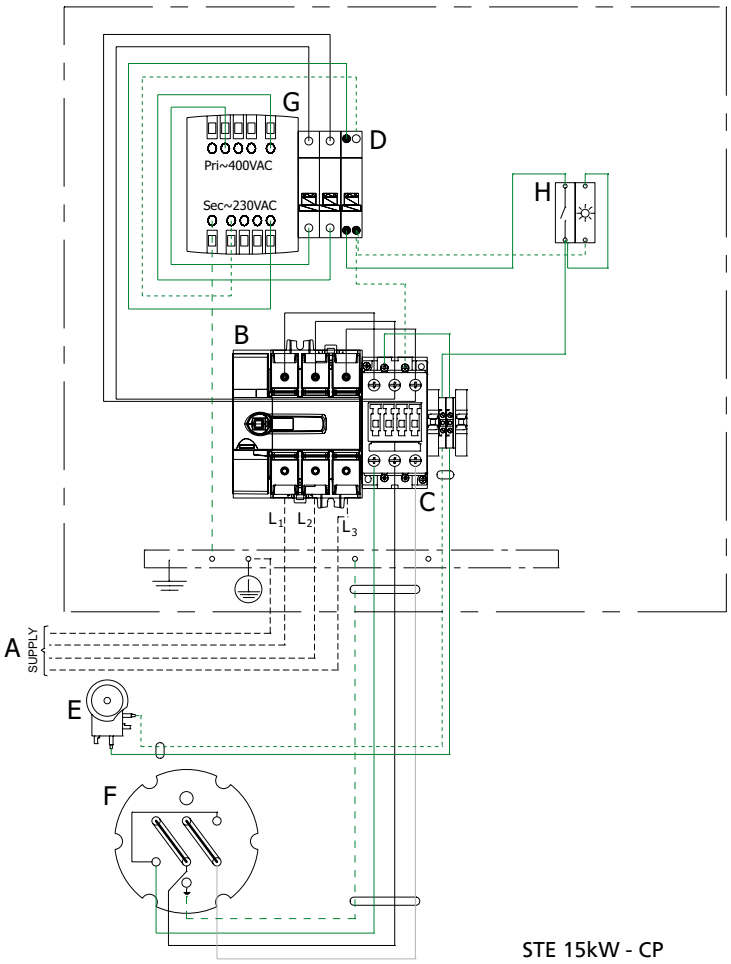
Innovation has a name.

Technical specifications

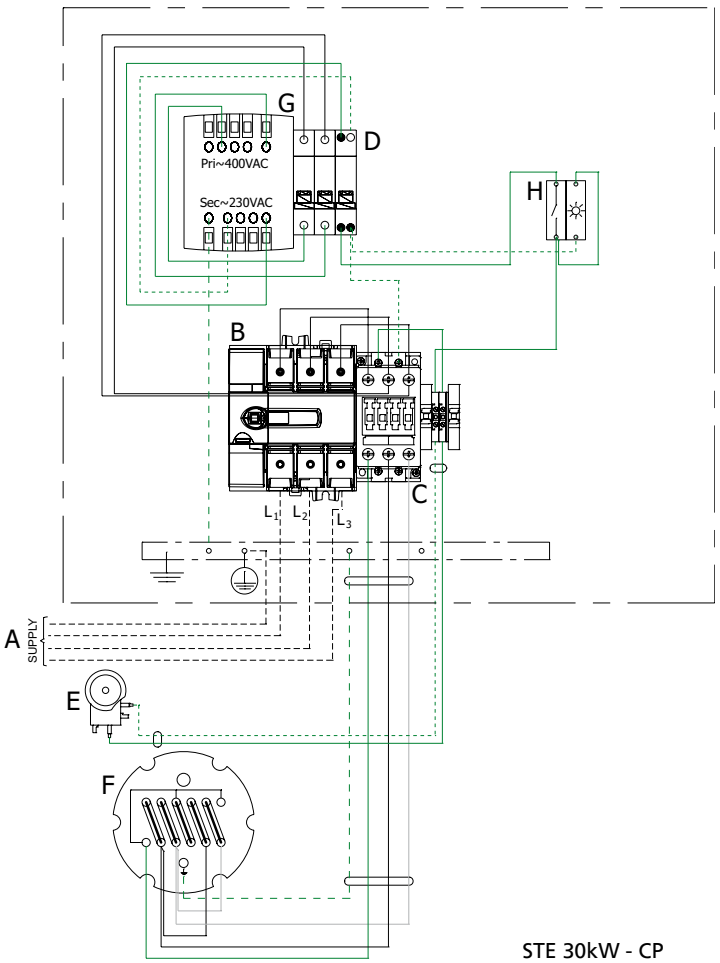
		1000-15	1000-30	1000-45	1000-60	1500-15	1500-30	1500-45	1500-60	2000-15	2000-30	2000-45	2000-60	2500-15	2500-30	2500-45	2500-60	3000-15	3000-30	3000-45	3000-60
Technical data																					
Input	kW	15	30	45	60	15	30	45	60	15	30	45	60	15	30	45	60	15	30	45	60
Current	A	22	43	65	87	22	43	65	87	22	43	65	87	22	43	65	87	22	43	65	87
Elements	-	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2
Power supply	VAC/Hz	400 (-15%/+10%) / 50/60 Hz																			
Max. working pressure tank	kPa (bar)	800 (8)																			
Max. operating temperature tank	°C	95																			
Number of anodes	-	3																			
Max. weight (aluminium jacket)	kg	1275				1856				2383				3013				3552			
Max. weight (flexible jacket)	kg	1267				1847				2374				3003				3541			
Standby loss (aluminium jacket)	kWh/24h	5.4				7.2				8.5				9.6				11.0			
Standby loss (flexible jacket)	kWh/24h	7.0				9.2				10.9				12.3				14.0			
Draw- off capacity																					
Capacity	ltr	1000				1500				2000				2500				3000			
Max. temperature setting	°C	80																			
30 min. ΔT=28°C	ltr	2300	2500	2700	2900	3300	3500	3700	3900	4300	4500	4700	4900	5300	5500	5700	5900	6300	6500	6700	6900
60 min. ΔT=28°C	ltr	2500	2900	3400	3800	3500	3900	4400	4800	4500	4900	5400	5800	5500	5900	6400	6800	6500	6900	7400	7800
90 min. ΔT=28°C	ltr	2700	3400	4100	4700	3700	4400	5100	5700	4700	5400	6100	6700	5700	6400	7100	7700	6700	7400	8100	8700
120 min. ΔT=28°C	ltr	2900	3800	4700	5600	3900	4800	5700	6600	4900	5800	6700	7600	5900	6800	7700	8600	6900	7800	8700	9600
Continuous ΔT=28°C	ltr/h	461	921	1382	1843	461	921	1382	1843	461	921	1382	1843	461	921	1382	1843	461	921	1382	1843
Heating up time ΔT=28°C	min.	130	65	43	33	195	98	65	49	260	130	87	65	326	163	109	81	391	195	130	98
30 min. ΔT=50°C	ltr	1300	1400	1500	1600	1800	2000	2100	2200	2400	2500	2600	2800	3000	3100	3200	3300	3500	3600	3800	3900
60 min. ΔT=50°C	ltr	1400	1700	1900	2200	2000	2200	2500	2700	2500	2800	3000	3300	3100	3300	3600	3800	3700	3900	4100	4400
90 min. ΔT=50°C	ltr	1500	1900	2300	2700	2100	2500	2900	3200	2700	3000	3400	3800	3200	3600	4000	4300	3800	4200	4500	4900
120 min. ΔT=50°C	ltr	1700	2200	2700	3200	2200	2700	3200	3700	2800	3300	3800	4300	3400	3900	4400	4900	3900	4400	4900	5400
Continuous ΔT=50°C	ltr/h	258	516	774	1032	258	516	774	1032	258	516	774	1032	258	516	774	1032	258	516	774	1032
Heating up time ΔT=50°C	min.	233	116	78	58	349	174	116	87	465	233	155	116	581	291	194	145	698	349	233	174
30 min. ΔT=70°C	ltr	890	970	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800
60 min. ΔT=70°C	ltr	980	1200	1400	1600	1400	1600	1800	2000	1800	2000	2200	2400	2200	2400	2600	2800	2600	2800	3000	3200
90 min. ΔT=70°C	ltr	1100	1400	1700	1900	1500	1800	2100	2300	1900	2200	2500	2700	2300	2600	2900	3100	2700	3000	3300	3500
120 min. ΔT=70°C	ltr	1200	1600	1900	2300	1600	2000	2300	2700	2000	2400	2700	3100	2400	2800	3100	3500	2800	3200	3500	3900
Continuous ΔT=70°C	ltr/h	184	369	553	737	184	369	553	737	184	369	553	737	184	369	553	737	184	369	553	737
Heating up time ΔT=70°C	min.	326	163	109	81	488	244	163	122	651	326	217	163	814	407	271	203	977	488	326	244
Transport data																					
Empty weight (aluminium jacket)	kg	275				356				383				513				552			
Empty weight (flexible jacket)	kg	267				347				374				503				541			
Weight incl. packaging (aluminium jacket)	kg	295				376				403				533				572			
Weight incl. packaging (flexible jacket)	kg	287				367				394				523				561			
Width packaging	mm	900				1200				1200				1500				1500			
Depth packaging	mm	1400				1700				1700				1940				1940			
Height packaging	mm	2280				2060				2250				2120				2250			

Electrical diagrams

Models including factory supplied control panel (CP)



STE 15kW - CP



STE 30kW - CP

TERMINAL BLOCK CONNECTIONS

⏚ Earth
N Neutral
L_1 Fase-input
L_2 Fase-input
L_3 Fase-input

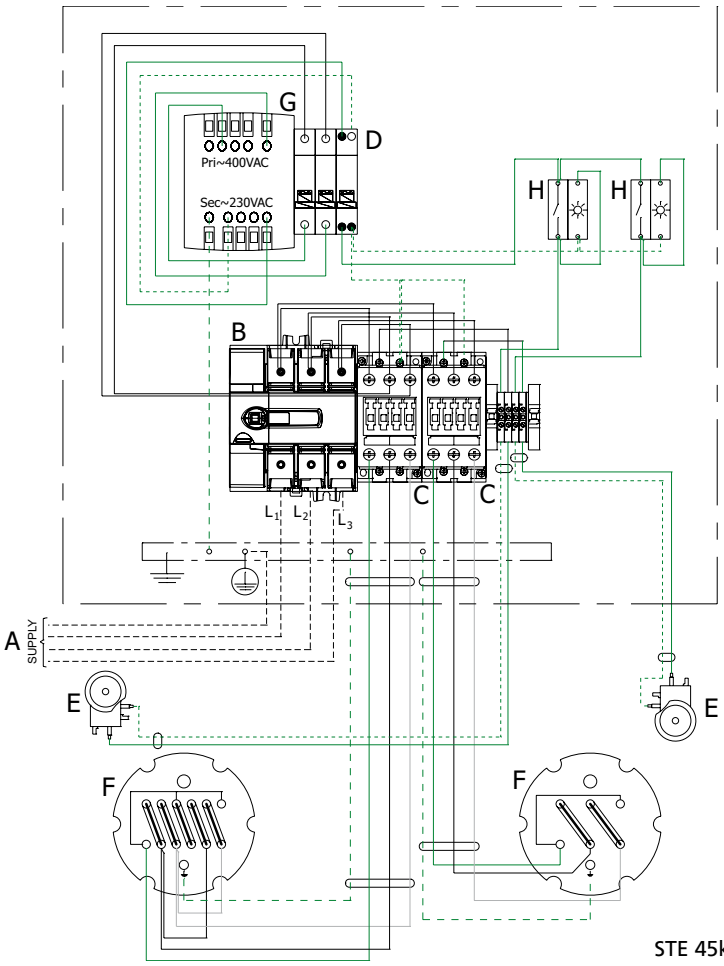
COMPONENTS

A Power supply
B Main power disconnect switch door interlock
C Relay
D Automatic fuse
E Combined control/safety thermostat
F Electrical heating element
G Transformer $400V_{AC}/230V_{AC}$
H Manual override switch and indication light

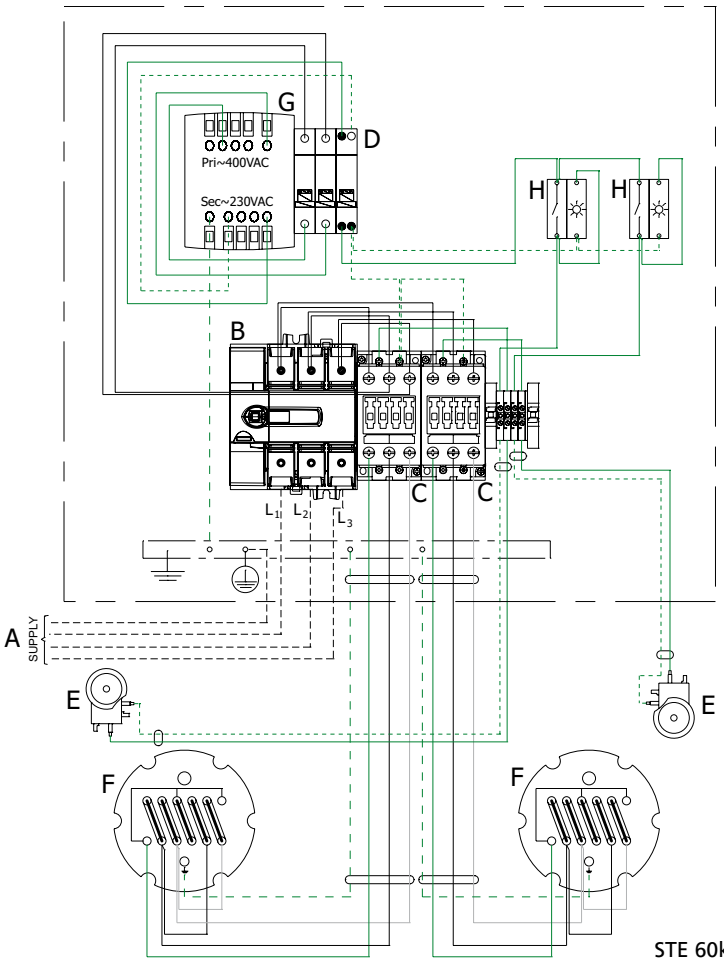


Picture: Tank with aluminium jacket and control panel.

Electrical diagrams



STE 45kW - CP



STE 60kW - CP

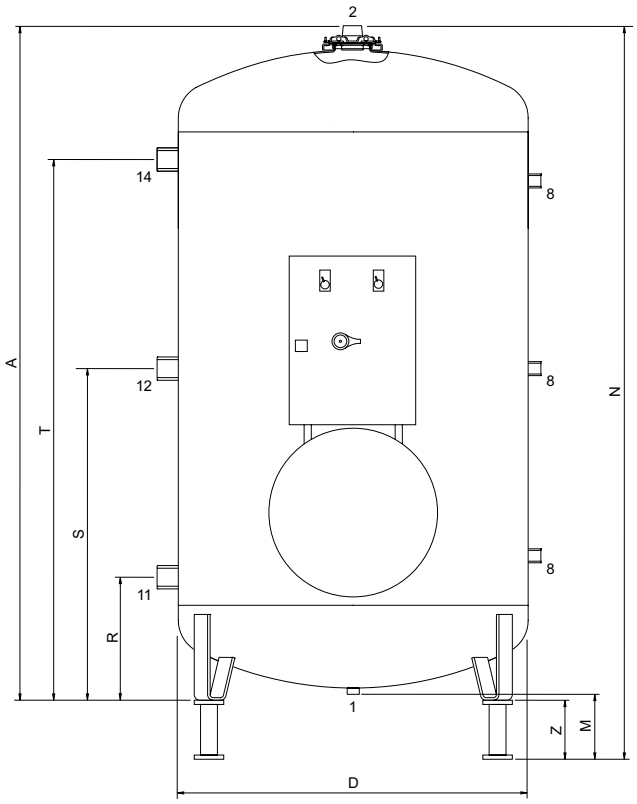
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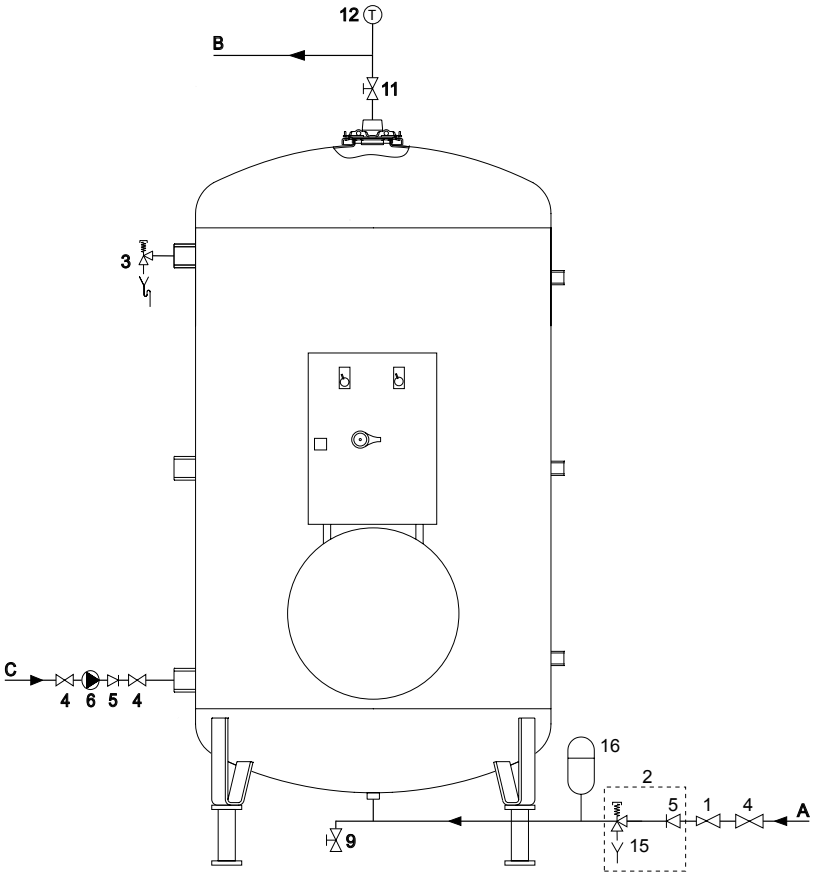
Dimensions



		1000	1500	2000	2500	3000
A		2300	2130	2320	2190	2320
D		790	1100	1100	1400	1400
		890	1200	1200	1500	1500
M		200	220	220	215	215
N		2300	2130	2320	2190	2320
R		500	600	600	680	680
S		1230	1150	1245	1180	1245
T		1955	1700	1890	1680	1810
Z		150	200	200	200	200
1	Connection cold water	Rp 2				
2	Connection hot water	R 2				
8	Connection anode	Rp ¾				
11	Connection	Rp 2				
12	Connection	Rp 2				
14	Connection	Rp 2				

Dimensions in mm.

Installation



LEGEND

Unused numbers are not applicable.

1 Pressure reducing valve (mandatory if the mains water pressure is too high)
2 Inlet security group combining 8 bar pressure relief valve (15) and check valve (5) (mandatory)
3 T&P valve (mandatory - factory deliverd)
4 Stop valve (recommended)
5 Non-return valve (mandatory)
6 Circulation pump (optional)
9 Drain valve
11 Service stop valve (recommended)
12 Temperature gauge (recommended)
15 Pressure relief valve
16 Expansion tank (recommended)

A Cold water supply
B Hot water supply
C Circulation pipe

Data subject to change ME/0810/STE/02
Terms and conditions apply, please refer to our website.