### Inox-Maxi SSC2 Calorifiers



- Stainless steel calorifiers
- Extremely low standby heat losses
- 2 large coil surface areas
- Large connections
- Large inspection hatch
- Up to 2000 litres storage capacity
- Continuous delivery at 50°C rise from both coils up to 2398 l/h

# Inox-Maxi SSC2 Calorifiers – Stainless steel, twin coil

### **Durable construction providing peace of mind**

Constructed from 316L grade stainless steel providing excellent resistance to attack from corrosion.

#### Specially designed coil

Unique coil design to reduce cold spots and to assist with annual maintenance.

#### **Extremely low standby heat losses**

Increasing system efficiency due to the extremely low standby heat loss as low as 2.3 kW/24hr.

#### Large coil surface area

The specially designed coil has a larger surface area providing better and faster heat transfer.

#### **Durability**

The Inox-maxi SSC1 calorifiers are manufactured from grade 316L stainless steel and in compliance with ErP Eco-Design requirements for Energy Related Products.

#### **Large connections**

Large connections on the cylinder coil which reduces the pressure drop within the unit

#### **External control**

The stored DHW temperature can be monitored and controlled externally.



#### **Future-proof**

Suitable to be used with renewable heat sources including solar and heat pumps.

#### A wide range of sizes

Six models providing storage capacities ranging form 500 to 2000 litres and heat transfer between 21 to 133kW with primary flow temperature at 80°C.

#### **Cost effective**

Due to the stainless steel construction of the unit, the cost of the yearly maintenance of the unit is greatly reduced by not requiring sacrificial anodes.

#### Removable jacket

800L models and above are supplied with removable jackets and insulation.

#### **Immersion heater option**

ELCO offers the option of adding an immersion heater to aid in the recovery time of the cylinder. For more information please see the table on the right.

#### **Inspection hatch**

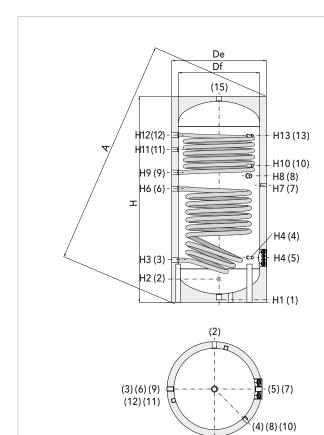
Easy access to the base of the cylinder through the inspection hatch for yearly maintenance.

#### Accessories

Matched optional/additional un-vented kits are available to assist with installation.

#### Versatility

Connect coil in series to increase output (not supplied by ELCO)



Item No.	Description					
1	Drain					
2	Domestic cold water inlet					
3	Primary circuit return					
4	1/2" BSP tapping for instrumentation					
5	Blind inspection flange					
6	Primary circuit flow					
7	1/2" BSP tapping for instrumentation					
8	Connection for immersion heater					
9	Upper coil return					
10	1/2" BSP tapping for instrumentation					
11	Re-circulation					
12	Upper coil flow					
13	T&P valve					
15	Domestic hot water outlet					

## Technical data – Inox-Maxi SSC2 Calorifiers

	INOX-MAXI SSC2		500	800	1000	1300	1500	2000
	Cylinder capacity (Total)	litres	503	759	902	1272	1398	2018
	Upper coil heated volume	litres	162	297	329	465	528	793
	Performance data Upper Coil when Primary flow 80°C and return	60°C						
	Upper Coil Output at primary temp 80/60°C	kW	21	25	28	36	36	40
	Upper Coil nominal primary flow rate at primary temp 80/60°C	litres/sec	0.3	0.3	0.4	0.4	0.4	0.5
	Pressure loss via Upper coil at the nominal primary flow rate	Кра	1.0	0.3	0.5	0.9	0.9	1.2
	Peak 10 minute DHW delivery at ΔT 50°C with primary temp 80/60°C	litres	222	367	411	569	632	908
	Continuous DHW delivery ΔT 50°C with primary temp 80/60°C	litres/hour	359	423	490	624	624	692
	Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate	minutes	34	54	51	56	64	86
	Performance data Lower Coil when Primary flow 80°C and return	60°C						
	Lower Coil Output at primary temp 80/60°C	kW	41	48	62	69	69	76
	Lower Coil nominal primary flow rate at primary temp 80/60°C	litres/sec	0.5	0.6	0.8	0.8	0.8	0.9
	Pressure loss via lower coil at the nominal primary flow rate	Кра	6.0	1.9	3.6	4.8	4.8	6.2
	Peak 10 minute DHW delivery at ΔT 50°C with primary temp 80/60°C	litres	620	897	1080	1470	1596	2236
	Continuous DHW delivery ΔT 50°C with primary temp 80/60°C	litres/hour	699	828	1067	1186	1186	1305
_		iiiles/fioui	077	020	1007	1100	1100	1303
Water	Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate	minutes	54	69	63	81	88	116
	Performance data Both Coils connected in series when Primary flo							
	Both Coils Output at primary temp 80/60°C	kW	65	78	96	111	111	122
	Both Coils nominal primary flow rate at primary temp 80/60°C	litres/sec	0.8	1.0	1.2	1.4	1.4	1.5
	Pressure loss via both coils at the nominal primary flow rate**	Kpa	20.5	6.7	11.5	17.0	17.0	21.9
	Peak 10 minute DHW delivery at ΔT 50°C with primary temp 80/60°C	litres	688	982	1177	1589	1715	2367
	Continuous DHW delivery ΔT 50°C with primary temp 80/60°C	litres/hour	1110	1340	1647	1905	1905	2094
	Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate	minutes	34	42	41	50	55	72
	Performance data Both Coils connected in series when Primary flo				405	101	404	422
	Both Coils Output at primary temp 80/70°C	kW	70	86	105	121	121	133
	Both Coils nominal primary flow rate at primary temp 80/70°C  Pressure loss via both coils at the nominal primary flow rate**	Kpa litres	1.7 81.2	2.1 27.0	N/R*** 46.2	N/R*** 67.4	N/R*** 67.4	N/R*** 86.4
	• • •	iltres				07.4	07.4	00.4
		litroc/hour	705	1005	1202	1410		
	Peak 10 minute DHW delivery at ΔT 50°C with primary temp 80/70°C	litres/hour	705	1005	1203	1619	1745	2398
	Continuous DHW delivery ΔT 50°C with primary temp 80/70°C	litres/hour minutes	705 1211	1005 1479	1203 1807	1619 2081		
	Continuous DHW delivery $\Delta T50^{\circ}\text{C}$ with primary temp $80/70^{\circ}\text{C}$ Cylinder capacity recovery time DHW $\Delta T50^{\circ}\text{C}$ , with primary temp $80^{\circ}\text{C}$ and nominal flow rate	minutes kW			1807 35	2081	1745	2398
	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum)	minutes kW bar	1211	1479	1807 35	2081 42 2/6	1745 2081	2398 2282
	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum) Primary/secondary operating temperature (maximum)	minutes kW	1211	1479 36	1807 35 12	2081 42 2/6 0/95	1745 2081	2398 2282
ergy	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum) Primary/secondary operating temperature (maximum) Standby heat losses (DHW temperature 65°C)	minutes kW bar	1211 29 2.3	1479 36 2.7	1807 35 12 110 2.8	2081 42 2/6 0/95 3.5	1745 2081	2398 2282
Energy	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum) Primary/secondary operating temperature (maximum)	minutes kW bar °C	1211 29	1479 36	1807 35 12	2081 42 2/6 0/95	1745 2081 47	2398 2282 61
Electrical Energy	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum) Primary/secondary operating temperature (maximum) Standby heat losses (DHW temperature 65°C)	minutes kW bar °C	1211 29 2.3	1479 36 2.7	1807 35 12 110 2.8	2081 42 2/6 0/95 3.5	1745 2081 47 3.8	2398 2282 61 4.3
	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum) Primary/secondary operating temperature (maximum) Standby heat losses (DHW temperature 65°C) Energy class	kW bar °C kW/24hr	1211 29 2.3 C	1479 36 2.7 C	1807 35 12 110 2.8 C	2081 42 2/6 0/95 3.5 C	1745 2081 47 3.8 C	2398 2282 61 4.3
	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C  Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate  Primary/secondary operating pressure (maximum)  Primary/secondary operating temperature (maximum)  Standby heat losses (DHW temperature 65°C)  Energy class  Optional electric elements  Upper Coil connections sizes	minutes kW bar °C kW/24hr  kW/phase inches	1211 29 2.3 C	1479 36 2.7 C	1807 35 12 110 2.8 C	2081 42 2/6 3/95 3.5 C 12/3	1745 2081 47 3.8 C	2398 2282 61 4.3 C
Electrical	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate Primary/secondary operating pressure (maximum) Primary/secondary operating temperature (maximum) Standby heat losses (DHW temperature 65°C) Energy class Optional electric elements Upper Coil connections sizes Upper coil surface area	kW bar °C kW/24hr	1211 29 2.3 C	1479 36 2.7 C	1807 35 12 110 2.8 C	2081 42 2/6 0/95 3.5 C 12/3 1 1/4" 2.1	1745 2081 47 3.8 C	2398 2282 61 4.3
Electrical	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C  Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate  Primary/secondary operating pressure (maximum)  Primary/secondary operating temperature (maximum)  Standby heat losses (DHW temperature 65°C)  Energy class  Optional electric elements  Upper Coil connections sizes	minutes kW bar °C kW/24hr  kW/phase inches m²	1211 29 2.3 C 3/1 1" 1.2	1479 36 2.7 C	1807 35 12 110 2.8 C	2081 42 2/6 3/95 3.5 C 12/3	1745 2081 47 3.8 C	2398 2282 61 4.3 C
Electrical	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C  Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate  Primary/secondary operating pressure (maximum)  Primary/secondary operating temperature (maximum)  Standby heat losses (DHW temperature 65°C)  Energy class  Optional electric elements  Upper Coil connections sizes  Upper coil surface area  Lower Coil connections sizes  Lower coil surface area	minutes kW bar °C kW/24hr  kW/phase inches m² inches m²	29  2.3 C  3/1  1" 1.2 1" 2.1	1479 36 2.7 C 3/1 1.5	1807 35 12 110 2.8 C 12/3	2081 42 2/6 3/95 3.5 C 12/3 11/4" 2.1 11/4" 3.7	1745 2081 47 3.8 C 12/3	2398 2282 61 4.3 C 12/3
	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C  Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate  Primary/secondary operating pressure (maximum)  Primary/secondary operating temperature (maximum)  Standby heat losses (DHW temperature 65°C)  Energy class  Optional electric elements  Upper Coil connections sizes  Upper coil surface area  Lower Coil connections sizes  Lower coil surface area  Weight empty/full	minutes kW bar °C kW/24hr  kW/phase inches m² inches	29  2.3 C  3/1  1" 1.2 1" 2.1 138/ 641	1479 36 2.7 C 3/1 1.5 2.7 191/ 949	1807 35 110 2.8 C 12/3 1.7 3.4 220/ 1122	2081 42 2/6 3/95 3.5 C 12/3 11/4" 2.1 11/4" 3.7 270/ 1542	1745 2081 47 3.8 C 12/3 2.1 3.7 285/ 1683	2398 2282 61 4.3 C 12/3 2.3 4.1 415/ 2433
Electrical	Continuous DHW delivery $\Delta T$ 50°C with primary temp 80/70°C  Cylinder capacity recovery time DHW $\Delta T$ 50°C, with primary temp 80°C and nominal flow rate  Primary/secondary operating pressure (maximum)  Primary/secondary operating temperature (maximum)  Standby heat losses (DHW temperature 65°C)  Energy class  Optional electric elements  Upper Coil connections sizes  Upper coil surface area  Lower Coil connections sizes  Lower coil surface area	minutes kW bar °C kW/24hr  kW/phase inches m² inches m²	29  2.3 C  3/1  1" 1.2 1" 2.1 138/	1479 36 2.7 C 3/1 1.5 2.7 191/	1807 35 12 110 2.8 C 12/3 1.7 3.4 220/	2081 42 2/6 3.5 C 12/3 11/4" 2.1 11/4" 3.7 270/	1745 2081 47 3.8 C 12/3 2.1 3.7 285/	2398 2282 61 4.3 C 12/3 2.3 4.1 415/

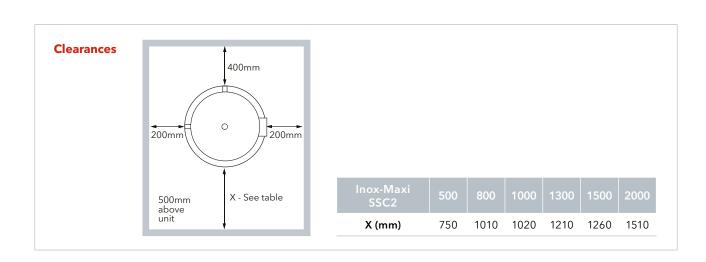
### Technical data – Inox-Maxi SSC2 Calorifiers

#### **Dimensions**

Inox-Maxi	Df	De	Н	А	H1	H2	НЗ	H4	H6	H7	Н8	H9	H10	H11	H12	H13
SSC2								(m								
500	650	750	1796	1946	71	271	356	411	1046	1086	1154	1196	1274	1341	1485	1496
800	790	1010	1943	2008	114	323	423	478	998	1533	1113	1163	1260	1331	1475	1533
1000	800	1020	2192	2251	112	337	412	477	1256	1792	1337	1372	1432	1557	1792	1792
1300	950	1170	2213	2289	118	313	438	483	1213	1798	1368	1368	1427	1578	1788	1798
1500	1000	1220	2197	2280	94	327	452	497	1227	1762	1302	1332	1462	1542	1752	1762
2000	1250	1470	2070	2197	85	350	475	520	1035	1575	1160	1215	1345	1390	1565	1575

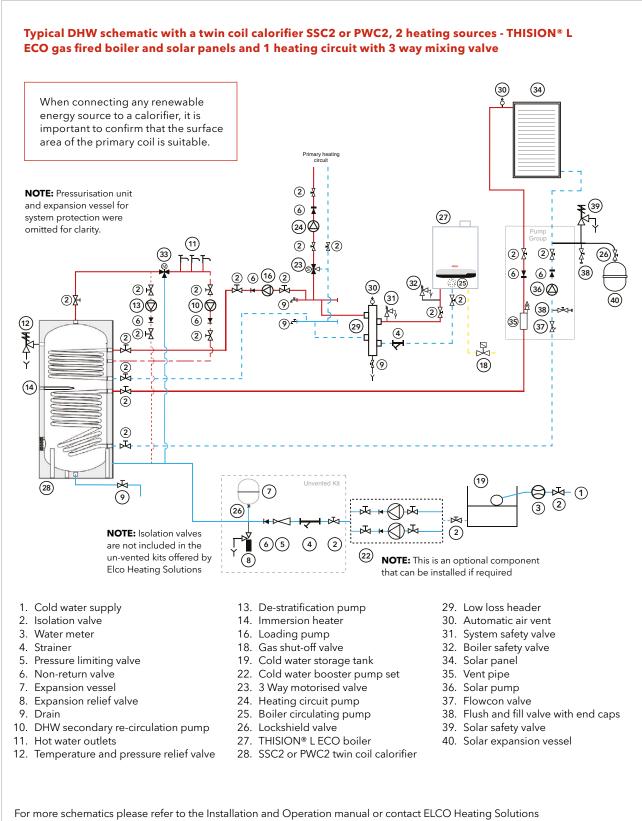
#### **Connections**

Inox-Maxi		2	3 & 6	5		9 & 12	11	13	15
SSC2					Gas F				
500	1/2"	1"	1"	Øi 120mm	1 1/4"	1"	1"	3/4"	1"
800	3/4"	1"	1 1/4"	Øi 120mm	2"	1 1/4"	1"	1 1/4"	1 1/4"
1000	3/4"	1"	1 1/4"	Øi 120mm	2"	1 1/4"	1"	1 1/4"	1 1/4"
1300	1"	1 1/4"	1 1/4"	Øi 160mm	2"	1 1/4"	2"	1 1/4"	2"
1500	1"	2"	1 1/4"	Øi 160mm	2"	1 1/4"	2"	1 1/4"	2"
2000	1"	2"	1 1/4"	Øi 160mm	2"	1 1/4"	2"	1 1/4"	2"



### Example of Hydraulic Scheme -

Twin Coil Calorifiers an Inox-Maxi SSC2 or Polywarm PWC2



These illustrations are designed to provide general guidance on the hydraulic scheme and should not be considered as an installation drawing.