ITE
INDIRECT
CALORIFIER-SOLAR

ITE - 400/500/600/750/1000

Indirect water heater (calorifier) for solar applications.

- Single-wall spiral heat exchanger
- PermaGlas Ultra Coat second-generation glass coating technology prevents corrosion
- Insulated ring base: 70-100mm NEODUL insulation with ABS cover, compliant with Ecodesign regulations
- Insulated access cover for comprehensive waterside maintenance
- Replaceable magnesium anode
- Temperature and pressure valve with stainless steel spring set to 95°C and a maximum water pressure of (10 bar) 1000 kPa
- Options:
    - Analogue temperature gauge (0-120°C)
    - Electric element heat packs (max 2 x 7,5 kW) flange mounted

SAMPLE SPECIFICATION
The tanks shall be A. O. Smith ITE series industrial Indirect hot water storage calorifier, model number _ITE_xxxx (400-1000L) or an approved equal. The tank shall be for vertical installation. Vessel shall be constructed to European Pressure Directive for minimum 10 bar working pressure. Vessel shall be glass-lined, have sacrificial magnesium anode for additional corrosion protection. Entire vessel shall be insulated with 70-100 MM NEODUL insulation with ABS cladding. Heat loss will meet ErP standards. A combined temperature and pressure relieve valve will be factory supplied. A factory installed boiler water/solar heat exchanger will meet or exceed the heating requirement. The heat exchanger will be able to handle up to 110 °C heating fluid (boiler water or glycol). The tank will have the option to install one or two back-up electric element with automatic temperature control and high temperature cut-off.

TECHNICAL DETAILS
ITE

		ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
General						
Volume	litres	389	478	652	734	1024
Empty weight	kg	131	179	229	237	314
Max. floor load	kg	520	657	881	971	1338
Shipping weigth	kg	145	193	243	251	328
Energy Efficiency Class (Energy		C	C	-	-	-
Heat Loss	W	100	104	126	126	146
Max. operating pressure tank	kPa (bar)			1000 (10)		
Test pressure tank	kPa (bar)			1500 (15)		
Max. operating pressure heat exchanger	kPa (bar)			1600 (16)		
test pressure heatexchanger	kPa (bar)			2400 (24)		
Max. water temperature tank	°C			95		
Max. water temperature heat exchanger	°C			110		
Anodes				1		
Capacity heat exchanger	kW	52	68	72	80	87
Primary flow 80/60°C	l/h	2.236	2.924	3.096	3.440	3.741
Pressure loss	mbar	78	166	37	50	61
Heat exchange surface	m2	1,64	2,13	2,39	2,66	2,89
Draw-off capacity						
Performance with heat exchanger, heating medium 80°C						
Draw-off capacity: cold water temperature 15°C; tank temperature 60°C						
Liters in 30 min @ 40 °C	litres	1.051	1.362	1.501	1.671	1.908
Liters in 60 min @ 40 °C	litres	2.102	2.724	3.001	3.342	3.815
Liters in 90 min @ 40 °C	litres	3.153	4.086	4.502	5.014	5.723
Liters in 120 min @ 40 °C	litres	4.204	5.449	6.003	6.685	7.631

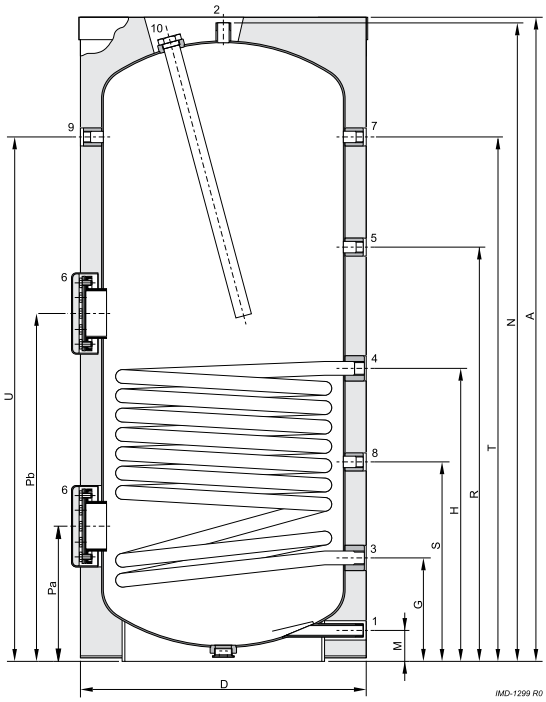
OPTIONAL ELECTRIC BACK UP HEATING
ITE

Heating capacity in kW	Recovery capacity in litres per hour at temperature rise:	
	15-40°C	15-60°C
Single element back up kW (upper)		
3.75	129	72
5	172	96
6	206	115
7.5	258	143
Double element total kW back-up		
10	344	191
12	413	229
15	516	287

DIMENSIONS & ELECTRIC HEATING

ITE

		ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
A	Total height	1710	2045	1840	2035	2005
D	Diameter (without insulation)	600	600	750	750	900
G	Diameter (with insulation)	740	760	910	930	1100
H	Height heat exchanger outlet	260	260	310	310	350
M	Height heat exchanger inlet	775	915	910	970	945
N	Height cold water inlet	70	70	85	85	95
Pa	Height warm water outlet	1655	1995	1805	2000	1965
Pb	Height inspec. opening/elec. element	330	330	420	420	450
R	Height inspec. opening/elec. element	900	1030	1070	1120	1090
S	Height recirculation connection	1100	1290	1240	1300	1400
T	Height immersion well/temp. sensor	500	500	655	655	705
U	Height T&P connection	1365	1700	1480	1675	1605
1	Height temp. sensor top tank	1365	1700	1480	1675	1605
2	Connection cold water inlet	R 1½"	R 1½"	R 1½"	R 1½"	R 1½"
3	Connection warm water outlet	R 1½"	R 1½"	R 1½"	R 1½"	R 1½"
4	Connection heat exchanger outlet	Rp 1"	Rp 1"	Rp 1¼"	Rp 1¼"	Rp 1¼"
5	Connection heat exchanger inlet	Rp 1"	Rp 1"	Rp 1¼"	Rp 1¼"	Rp 1¼"
6	Connection circulation	Rp ¾"	Rp ¾"	Rp ¾"	Rp ¾"	Rp ¾"
7	Diameter inspec. opening/elec. element	115	115	180	180	180
8	Connection T&P	1"-11.5 NPT	1"-11.5 NPT	1"-11.5 NPT	1"-11.5 NPT	1"-11.5 NPT
9	Connection immersion well/temp. sensor	Rp ¾"	Rp ¾"	Rp ¾"	Rp ¾"	Rp ¾"
10	Connection temp. sensor top tank	Rp ¾"	Rp ¾"	Rp ¾"	Rp ¾"	Rp ¾"
All dimensions are in mm						



2 Inletcombination
3 T&P valve
4 Stop valve
5 Non-return valve
6 Circulation pump

A Cold water supply
B Hot water outlet
C Circulation pipe
F Primary flow
G Primary return

In the instruction manual you will find all the necessary information regarding connection, installation and maintenance of the product; including information on the electrical connections.

Information regarding the recycling or disposal of the product can also be found in the manual. This manual is delivered with the appliance and can also be found on our website; www.aosmithme.com