

# 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 • ITE 400-1000: Insulated ring base • Insulated access covers 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 7,5kW) flange mounted

# Technical specifications

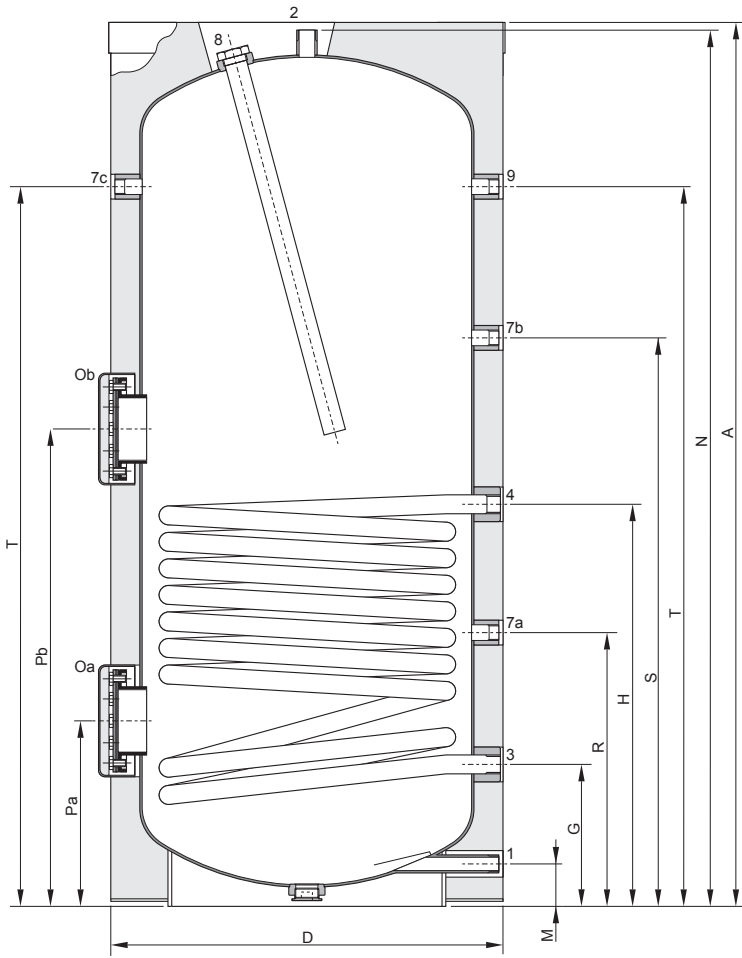
		ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
<b>Technical data</b>						
Output coil	kW	52	68	72	80	87
Surface area coil	m <sup>2</sup>	1.64	2.13	2.39	2.66	2.89
Water capacity coil	l	9.9	12.8	20.3	22.3	24.6
Flow rate coil (80-60°C)	l/h	2236	2924	3096	3440	3741
Pressure drop coil	mbar	78	166	37	50	61
Maximum working pressure tank	kPa (bar)	1000 (10)				
Maximum working pressure coil	kPa (bar)	1600 (16)				
Maximum operating temperature tank	°C	95				
Maximum operating temperature coil	°C	110				
Standby loss	kWh/24h	1.60	1.88	1.85	2.03	2.19
Storage capacity	l	389	478	652	734	1024
<b>Shipping data</b>						
Weight empty	kg	131	179	229	237	314
Maximum weight	kg	520	657	881	971	1338
Weight incl. packaging	kg	153	201	251	260	348
Width packaging	mm	780	780	870	870	1010
Height packaging	mm	1850	2150	1930	2150	2100
Depth packaging	mm	780	780	870	870	1010

## Optional electric back-up heating

Heating capacity kW	Recovery capacity in liters per hour at temperature rise:			
	15-60°C	20-60°C	15-45°C	20-45°C
Single element back up				
3.75	72	81	108	129
5	96	108	143	172
6	115	129	172	206
7.5	143	161	215	258
Double element back-up				
10	191	215	287	344
12	229	258	344	413
15	287	323	430	516

Flange mounted heating element kit, incoloy sheeted, thermostat range 40 to 85°C, hi-limit safety thermostat at 95°C, for operation on 400 V, 3 ph, 50/60 Hz

# Dimensions



	ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
A	1705	2040	1835	2030	2000
D	720	720	910	910	1060
G	255	255	304	305	345
H	771	915	906	967	947
M	70	70	85	85	95
N	1652	1990	1797	1992	1962
Oa/Ob	115	115	180	180	180
Pa	330	330	412	413	447
Pb	897	1029	1062	1113	1087
R	500	500	649	650	700
S	1096	1288	1236	1297	1397
T	1362	1700	1476	1627	1602

1	Cold water	R2 (ITE 600-1000 R2½)
2	Hot water	R2 (ITE 600-1000 R2½)
3	Inlet coil	Rp1 (ITE 750-1000 Rp1¼)
4	Outlet coil	Rp1 (ITE 750-1000 Rp1¼)
7	Connection	Rp¾
8	Anode connection	Rp1¼
9	Connection (female)	1"-1½ NPT

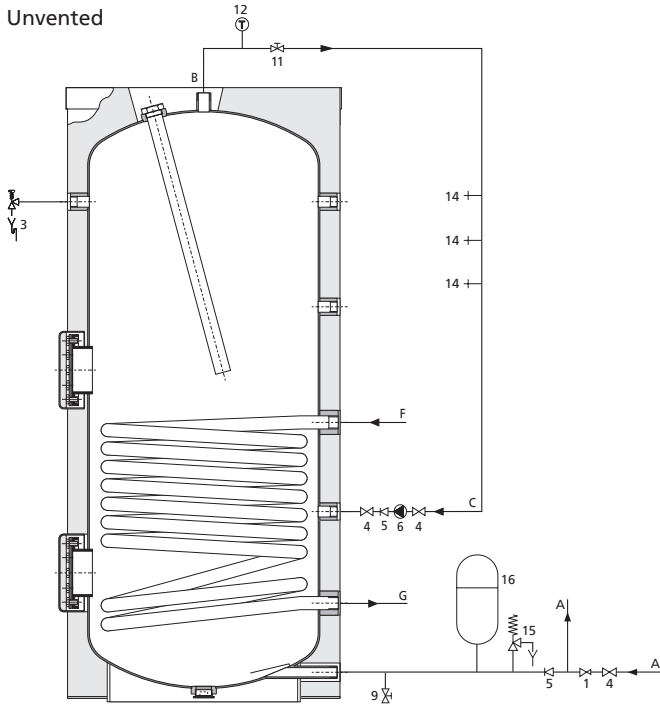
Dimensions in mm.  
 Dimensions for ITE 1500-3000 available upon request.



ITE with 1 or 2 back-up flange mounted heating elements

# Installation diagrams

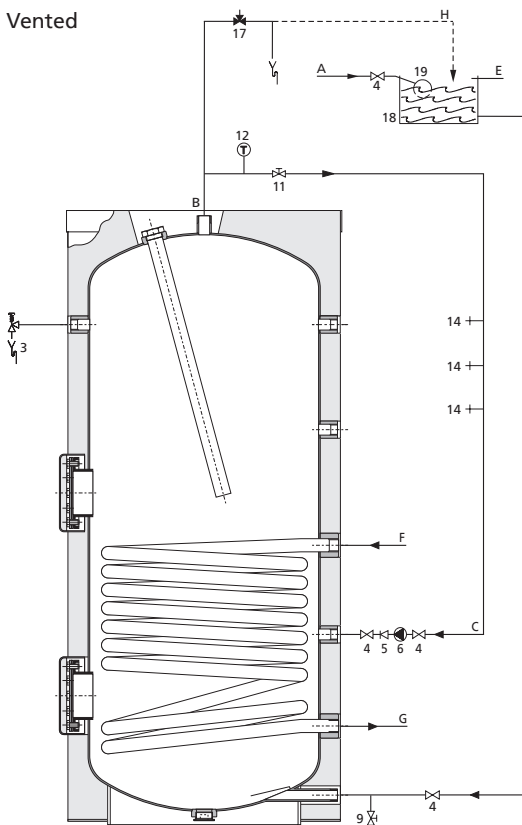
Unvented



- 1 Pressure reducing valve
  - 3 T&P valve
  - 4 Stop valve
  - 5 Non-return valve
  - 6 Circulation pump
  - 9 Drain valve
  - 11 Service valve
  - 12 Temperature meter
  - 14 Hot water tap
  - 15 Expansion valve
  - 16 Expansion vessel
  - 17 Three way valve
  - 18 Water cistern
  - 19 Float valve
- A Cold water supply
  - B Hot water outlet
  - C Return circulation
  - F Primary flow
  - G Primary return
  - E Over flow pipe
  - H Expansion pipe

A.O. Smith unvented system kits utilise combination valves.

Vented



Further installation and connection details can be found in the Installation & Commissioning Manual.