

# 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 • 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

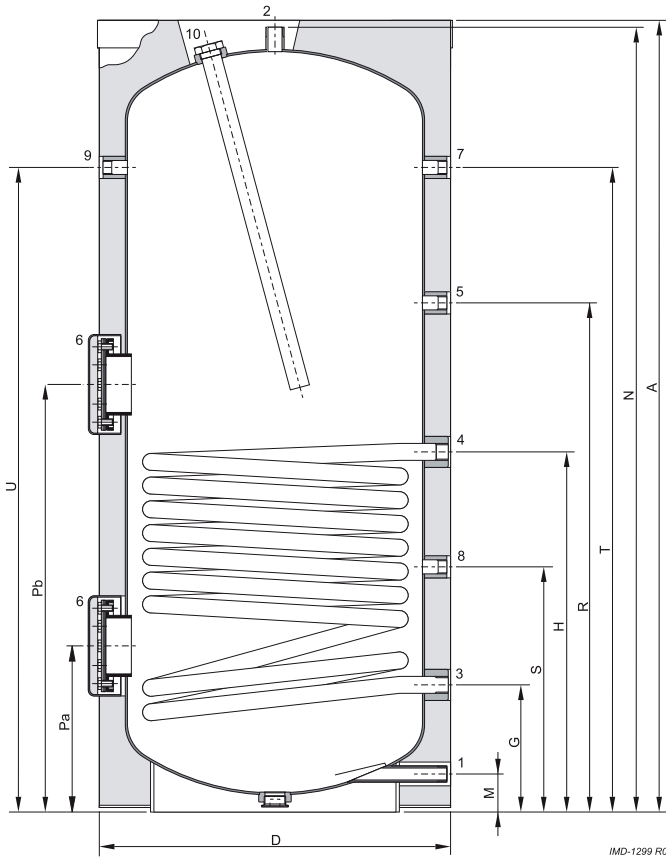
Heating capacity kW	Recovery capacity in liters per hour at temperature rise:			
	15-60°C	20-60°C	15-45°C	20-45°C
Single element back up				
3.75	72	81	108	129
5	96	108	143	172
6	115	129	172	206
7.5	143	161	215	258
Double element back-up				
10	191	215	287	344
12	229	258	344	413
15	287	323	430	516

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

## Ecodesign specifications

		ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
<b>Energy labeling</b>						
Load Profil	-	C	C	-	-	-
Standby loss	W	100	104	126	126	146

# Dimensions



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

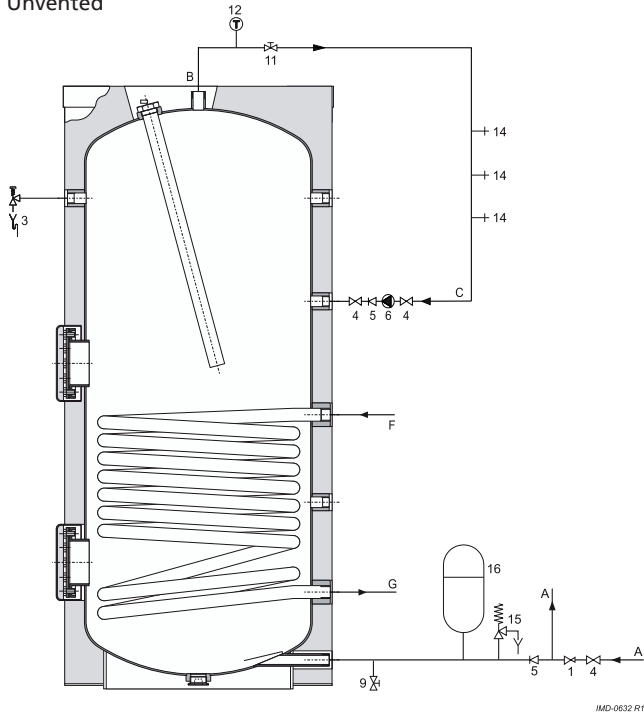
Dimensions for ITE 1500-3000 available upon request.



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

# Installation diagrams

## Unvented

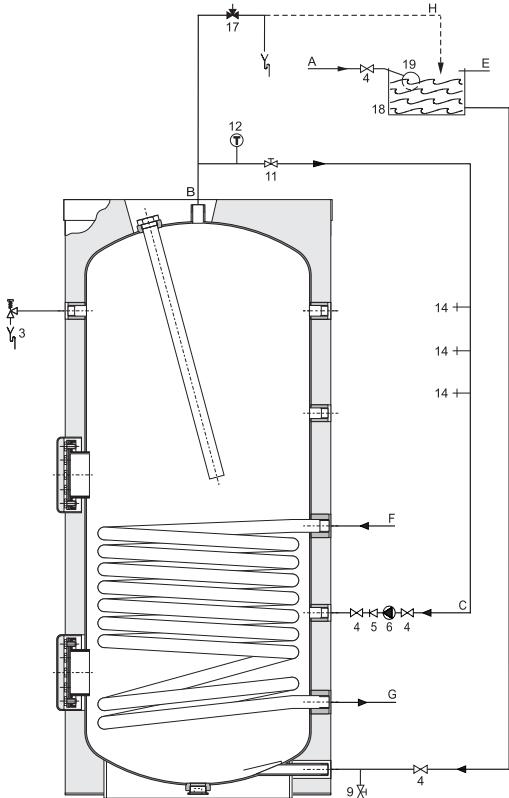


- 1 Pressure reducing valve
- 3 T&P valve
- 4 Stop valve
- 5 Non-return valve
- 6 Circulation pump
- 9 Drain valve
- 11 Service valve
- 12 Temperature meter
- 14 Hot water tap
- 15 Expansion valve
- 16 Expansion vessel
- 17 Three way valve
- 18 Water cistern
- 19 Float valve

- 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.