

ITE

Indirect calorifier-solar

Storage Capacity

400 Litres to 1000 Litres

Calorifiers for solar applications



ITE

ITE is an indirect water heater (calorifier) suitable for Solar applications, like SGS from A.O. Smith.

FEATURES

SIZES	400 Litres to 1000 Litres.
MAXIMUM WORKING PRESSURE	10 bar working pressure.
GLASS LINING	All internal surfaces exposed to water are glass-lined. Perma Glass Ultra Coat second-generation glass coating technology prevents corrosion.
ANODE	Replaceable magnesium anode.
WARRANTY	All ITE tanks receive a three years warranty on the tank and one year on parts.
OTHER STANDARD FEATURES	<ul style="list-style-type: none">• Insulated access cover for comprehensive waterside maintenance• ITE 400-1000: Insulated ring base.
OPTIONS	<ul style="list-style-type: none">• Flexible magnesium anode for installation in confined areas• Powered anode for reduced maintenance requirements• Temperature and pressure valve with stainless steel spring set to 95°C and a maximum water pressure of 7 bar• Analogue temperature gauge (0-120°C)• Electric element heat packs (3 -36 kW)• Unvented kits• Destratification pump kit• Flowstore heat pack

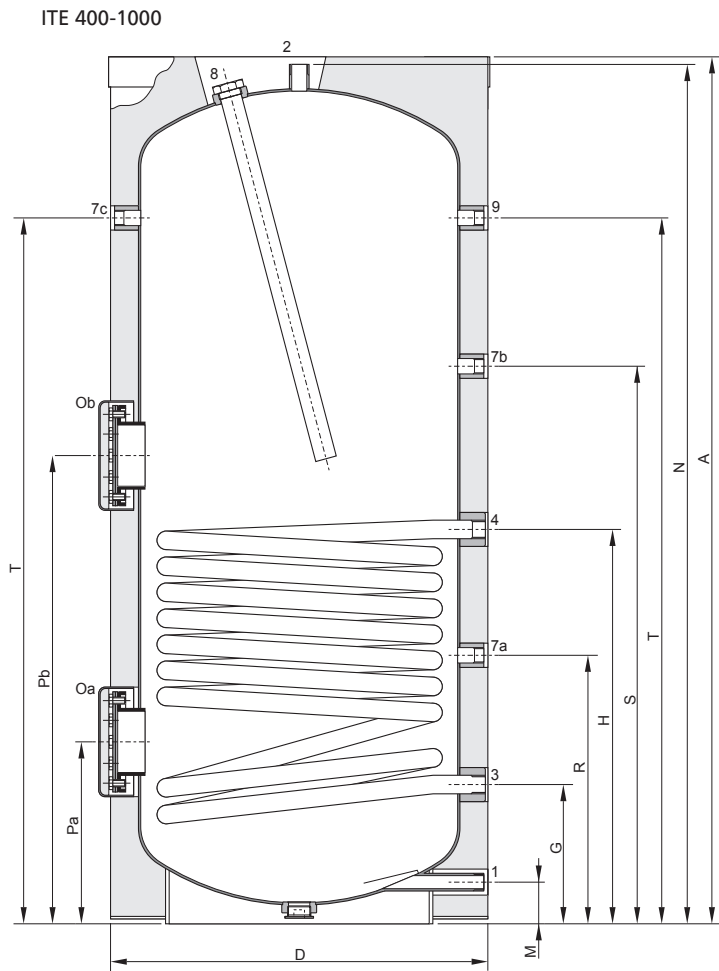
ABOUT A. O. SMITH

A. O. SMITH: WORLDWIDE	<p>A. O. Smith is the largest manufacturer in North America, and one of the world's leading manufacturers of residential and commercial water heating equipment, offering a comprehensive product line and featuring the best-known brands in North America and China. Through an inspired blend of innovation, teamwork, technology and industry expertise, A. O. Smith has created a full line of state-of-the-art water heaters and boilers that combine incredible performance with higher-than-ever energy efficiency. A. O. Smith is a global leader applying innovative technology and energy-efficient solutions to products marketed worldwide. A. O. Smith is also one of the largest manufacturers of electric motors for residential and commercial applications in North America.</p> <p>A. O. Smith developed and patented a process to glass-line water heaters. And over the years, A. O. Smith has gained the respect and support of homeowners, contractors, architects, and specifying engineers in over 60 countries by providing innovative energy efficient products designed for years of trouble-free service.</p>
A. O. SMITH: INDIA	<p>A. O. Smith India Water Heater Private Limited was established in 2005. Backed by 70 years of proven technological advances A. O. Smith India has created a stylish design with features demanded by the Indian consumer and successfully marketed a range of domestic water heaters that in a short period of time have become the most trusted brand in it's category.</p>

Technical specifications

		ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
Technical data						
Output coil	kcal	45,000	60,000	62,000	70,000	75,000
Output coil	kW	52	68	72	80	87
Surface area coil	m²	2.45	3.11	3.45	3.72	4.82
Water capacity coil	l	14.8	18.8	29.3	31.6	40.9
Flow rate coil (80-60°C)	l/h	2236	2924	3096	3440	3741
Pressure drop coil	mbar	244	489	104	128	259
Maximum working pressure tank	bar	10	10	10	10	10
Maximum working pressure coil	bar	16	16	16	16	16
Maximum operating temperature tank	°C	95	95	95	95	95
Maximum operating temperature coil	°C	110	110	110	110	110
Standby loss	kWh/24h	1.60	1.88	1.85	2.03	2.19
Anodes	-	1	1	1	1	1
Maximum weight	kg	520	657	881	971	1338
Draw-off capacity						
Storage capacity	l	389	478	652	734	1024
30 min. ΔT=44°C	l	1059	1337	1641	1838	2348
60 min. ΔT=44°C	l	1567	2001	2345	2620	3198
90 min. ΔT=44°C	l	2075	2666	3048	3402	4048
120 min. ΔT=44°C	l	2583	3330	3752	4183	4898
Continuous ΔT=44°C	l/h	899	1525	1955	2033	2189
Heating-up time ΔT=44°C	min.	20	15	15	19	20
30 min. ΔT=50°C	l	932	1176	1444	1617	2066
60 min. ΔT=50°C	l	1379	1761	2063	2305	2814
90 min. ΔT=50°C	l	1826	2346	2682	2993	3562
120 min. ΔT=50°C	l	2273	2931	3302	3681	4311
Continuous ΔT=50°C	l/h	791	1342	1720	1789	1926
Heating-up time ΔT=50°C	min.	22	17	16	22	23
30 min. ΔT=55°C	l	847	1069	1313	1470	1878
60 min. ΔT=55°C	l	1253	1601	1876	2096	2558
90 min. ΔT=55°C	l	1660	2133	2439	2721	3239
120 min. ΔT=55°C	l	2066	2664	3001	3347	3919
Continuous ΔT=55°C	l/h	719	1220	1564	1626	1751
Heating-up time ΔT=55°C	min.	25	19	18	24	25
Shipping data						
Weight empty	kg	131	179	229	237	314
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

Dimensions

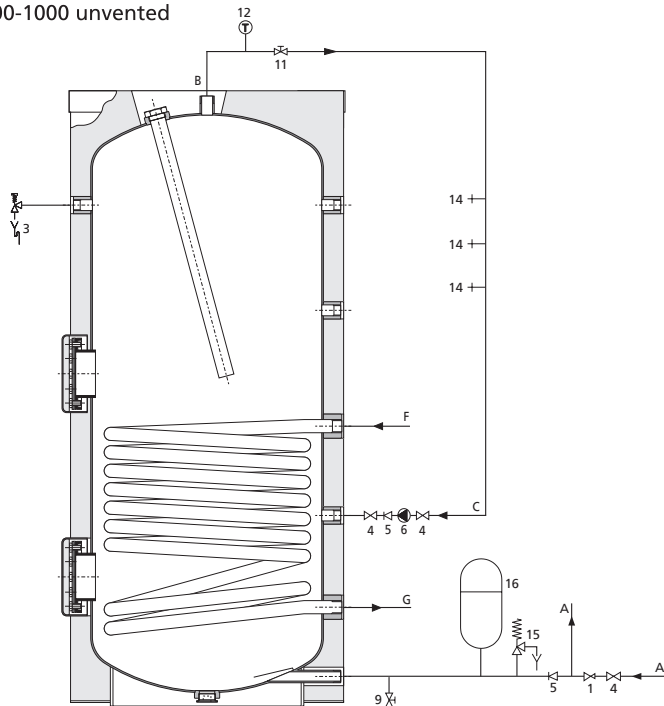


Dimensions in mm

	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
U	-	-	-	-	-
1 Cold water	R2	R2	R2 ¹ / ₂	R2 ¹ / ₂	R2 ¹ / ₂
2 Hot water	R2	R2	R2 ¹ / ₂	R2 ¹ / ₂	R2 ¹ / ₂
3 Inlet coil	Rp1	Rp1	Rp1	Rp1 ¹ / ₄	Rp1 ¹ / ₄
4 Outlet coil	Rp1	Rp1	Rp1	Rp1 ¹ / ₄	Rp1 ¹ / ₄
7 Connection	Rp ³ / ₄	Rp ³ / ₄	Rp ³ / ₄	Rp ³ / ₄	Rp ³ / ₄
8 Anode connection	Rp1 ¹ / ₄	Rp1 ¹ / ₄	Rp1 ¹ / ₄	Rp1 ¹ / ₄	Rp1 ¹ / ₄
9 Connection (female)	1"-11 ¹ / ₂ npt	1"-11 ¹ / ₂ npt	1"-11 ¹ / ₂ npt	1"-11 ¹ / ₂ npt	1"-11 ¹ / ₂ npt
All ITE calorifiers receive a three years warranty on the tank and one year on parts. Dimensions for ITE 1500-3000 available upon request.					

Installation diagrams

ITE 400-1000 unvented



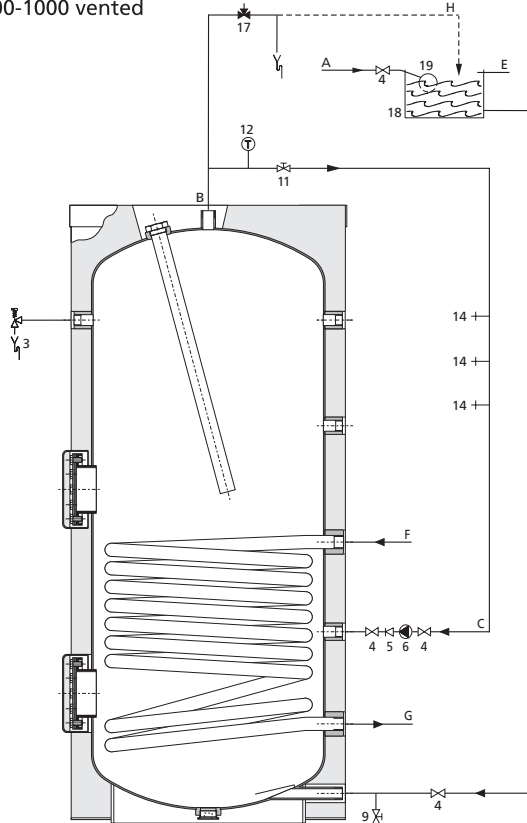
- 1 Pressure reducing valve
- 3 T&P valve
- 4 Stop valve
- 5 Non-return valve
- 6 Circulation pump
- 9 Drain valve
- 11 Isolating valve
- 12 Temperature gauge
- 14 Hot water outlets
- 15 Expansion relief valve
- 16 Expansion vessel
- 17 Three way valve
- 18 Water tank
- 19 Float valve

- A Cold water
- B Hot water
- C Return circulation
- F Primary flow
- G Primary return
- E Over flow pipe
- H Expansion vent pipe

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

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

ITE 400-1000 vented





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