

CAPACITY	VOLUME (Cubic m)	GROSS WEIGHT (kg)	UNITS IN 40 ft HI CUBE CONTAINER
15	0.0526	9	1080
30	0.0964	13	650
50	0.1263	19	480
80	0.1737	24	360
100	0.1935	30	360
150	0.4136	49	76
200	0.4523	57	76

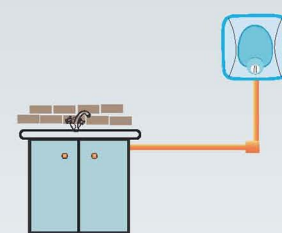
Premium quality water heaters



SAKAR INTERNATIONAL

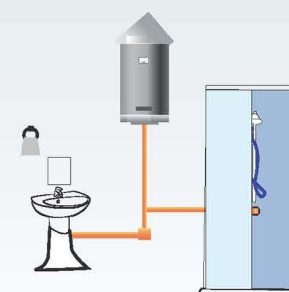
Sakar International Fzc.
PO BOX 52327, Hamriyah Free Zone, Sharjah, UAE.
T +971 6 5262870 F +971 6 5262869 E info@sakarint.com

Application



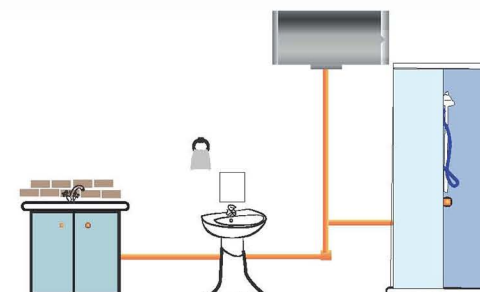
15 to 30
Liters

Kitchen or Sink



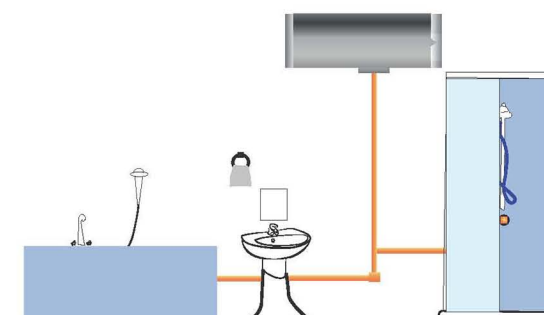
50
Liters

Standing Shower
+
Sink



80 to 100
Liters

Standing Shower
+
Sink + Wash



100 to 150
Liters

Standing Shower
+
Bath Tub + Wash + Sink



150 to 200
Liters

Standing Shower
+
Kitchen + Bath Tub
+
Wash + Sink

About us

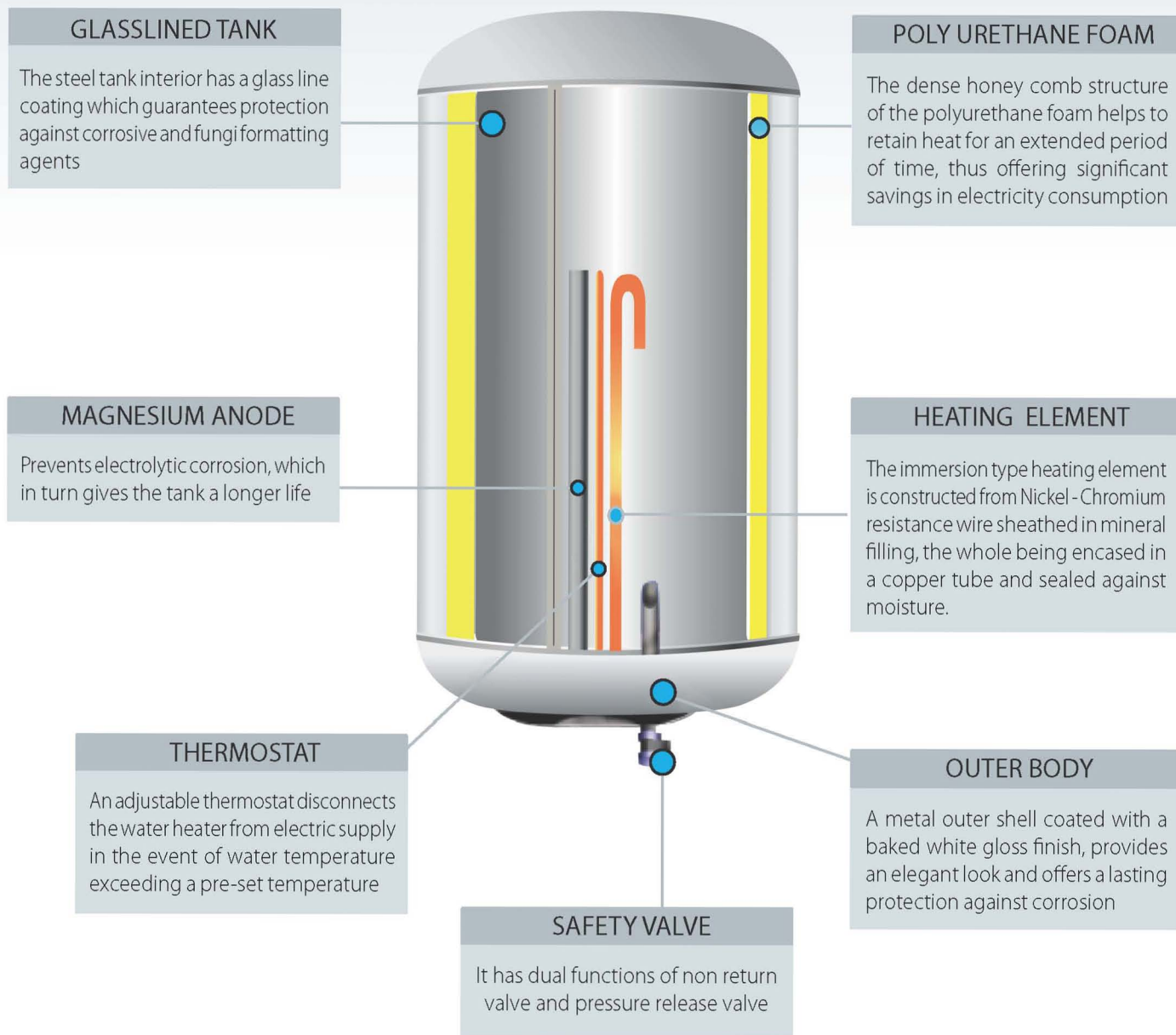
Sakar International FZC was established in United Arab Emirates in 2010. The Company was founded with a strong belief of satisfying customer needs, by giving suitable techno commercial solution with the support of their Trading and Sourcing division. With its office in the UAE, the company has its business activities in the market of GCC countries, Asian sub continents and Africa.

Sakar International FZC is known for its worldwide association with reputed manufacturers and traders with supply and sourcing of excellent quality products on time. Moreover, in the modern era of Green Building & Sustainable energy, the company believes to promote Green Products such like Solar Panels, Steels, Fiber Cement board through its trading and sourcing division to save resources of environment.

Our vision

Continuous understanding of market demands to launch new technologies and products in association with world-class manufacturers to provide latest techno commercial solutions to the market and to become a leader in product development and sourcing.

International standard: IEC 60335 – 2 – 21:2007,
UAE Standard: S/5001:2007



Thermal Cutout



High Precision Thermostat



High Working Pressure



Pressure Relief & Non return valve



Polyurethane Insulation



Thermometer Display

EUROPEAN COMPONENTS

- HEATING ELEMENT (BS EN 60335-1)
- SAFETY VALVE (EN 45014)
- PU FOAM INSULATION (DIN 53420)

TECHNICAL STANDARDS

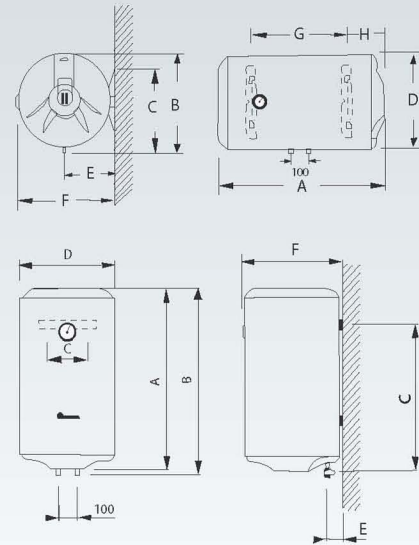
- INTERNATIONAL STANDARDS : IEC60335-2-21-2007
- EUROPEAN STANDARDS : EN60335 - 1,2001
- UAE STANDARD: S/5001: 2007
- SAUDI STANDARDS SSA 1062/95. 1698 / 2000

SAFETY DEVICES

- ADJUSTABLE THERMOSTAT. AUTO CUT OFF
- THERMAL CUT OUT AT UPPER TEMP LIMIT
- PRESSURE RELIEF VALVE FACTORY FITTED
- SECOND PRESSURE RELIEF VALVE (Optional)

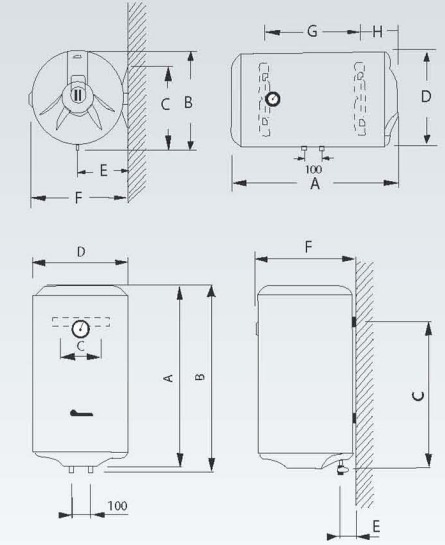


15 / 30 Liters



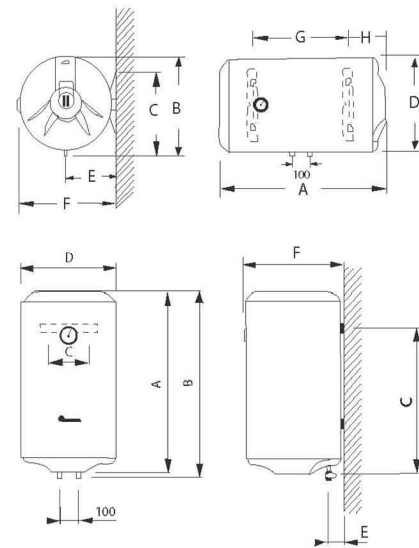
CAPACITY (Liters) L	POWER (Watts) W	VOLTAGE (Volts) V	HEATING TIME ($\Delta T = 45^\circ C$) Hours	MAX WORKING TEMP ($^\circ C$)	MAX WORKING PRESSURE (Atm Bars)	NET WEIGHT (kgs)	DIMENSIONS(mm)										
							A	B	C	D	E	F	G	H			
15 ltrs Vertical	1200	220 - 240	0.65	70	8	8.5	310	340	255	320	75	345	270				
30 ltrs Horizontal	1200	220 - 240	1.32	80	8	12	485	410	325	390	225	430	270	115			
30 ltrs Vertical	1200	220 - 240	1.32	70	8	12	435	455	325	390	150	425	270				

80 Liters



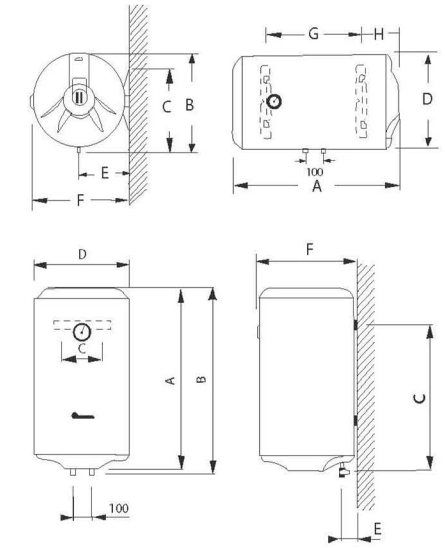
CAPACITY (Liters) L	POWER (Watts) W	VOLTAGE (Volts) V	HEATING TIME ($\Delta T = 45^\circ C$) Hours	MAX WORKING TEMP ($^\circ C$)	MAX WORKING PRESSURE (Atm Bars)	NET WEIGHT (kgs)	DIMENSIONS(mm)										
							A	B	C	D	E	F	G	H			
80 ltrs Horizontal	1200	220 - 240	3.50	80	8	22	735	450	380	440	230	465	345	215			
80 ltrs Vertical	1200	220 - 240	3.50	70	8	22	735	755	535	440	150	465	270				

50 Liters



CAPACITY (Liters) L	POWER (Watts) W	VOLTAGE (Volts) V	HEATING TIME ($\Delta T = 45^\circ C$) Hours	MAX WORKING TEMP ($^\circ C$)	MAX WORKING PRESSURE (Atm Bars)	NET WEIGHT (kgs)	DIMENSIONS(mm)										
							A	B	C	D	E	F	G	H			
50 ltrs Horizontal	1200	220 - 240	2.2	80	8	18	535	450	350	440	250	465	270	135			
50 ltrs Vertical	1200	220 - 240	2.2	70	8	18	535	555	360	440	150	465	270				

100 Liters



CAPACITY (Liters) L	POWER (Watts) W	VOLTAGE (Volts) V	HEATING TIME ($\Delta T = 45^\circ C$) Hours	MAX WORKING TEMP ($^\circ C$)	MAX WORKING PRESSURE (Atm Bars)	NET WEIGHT (kgs)	DIMENSIONS(mm)										
							A	B	C	D	E	F	G	H			
100ltrs Horizontal	1500	220 - 240	3.50	80	8	28	850	450	380	440	230	465	345	175			
100 ltrs Vertical	1500	220 - 240	3.50	70	8	28	850	865	635	440	150	465	270				

150 Liters



CAPACITY (Liters)	POWER (Watts)	VOLTAGE (Volts)	HEATING TIME ($\Delta T=45^{\circ}\text{C}$) Hours	MAX WORKING TEMP ($^{\circ}\text{C}$)	MAX WORKING PRESSURE (Atm Bars)	NET WEIGHT (kgs)	DIMENSIONS(mm)							
							A	B	C	D	E	F	G	H
150ltrs Horizontal	2500	220 - 240	3.15	70	10	44	1275	460	390	440	230	465	910	200
150ltrs Vertical	2500	220 - 240	3.15	70	10	44	1275	1275	1155	440	150	465	285	

200 Liters



CAPACITY (Liters)	POWER (Watts)	VOLTAGE (Volts)	HEATING TIME ($\Delta T=45^{\circ}\text{C}$) Hours	MAX WORKING TEMP ($^{\circ}\text{C}$)	MAX WORKING PRESSURE (Atm Bars)	NET WEIGHT (kgs)	DIMENSIONS(mm)							
							A	B	C	D	E	F	G	H
200 ltrs Horizontal	3000	220 - 240	3.50	70	10	50	1560	460	390	440	230	465	1180	200
200 ltrs Vertical	3000	220 - 240	3.50	70	10	50	1560	1560	1440	440	150	465	285	

250 / 300 Liters

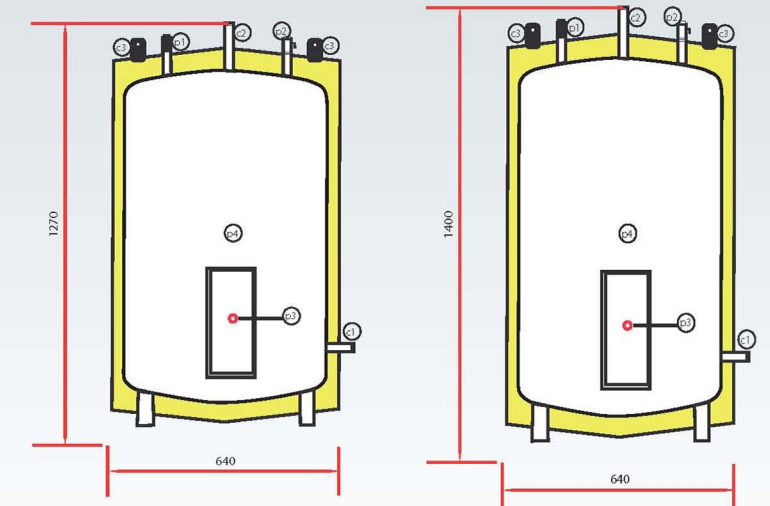
CAPACITY	250 / 300 LITERS
MOUNT	VERTICAL FLOOR
HEIGHT - 250 LTR	1270MM
HEIGHT - 300 LTR	1400MM
DIAMETER	640MM
DESIGN PRESSURE(Bars)	15
RATED PRESSURE(Bars)	10
RATED POWER	6KW, 1PH

CONNECTIONS

- C1. COLD WATER INLET 1" BSP
- C2. HOT WATER OUTLET 1" BSP
- C3. LIFTING HOOKS

PARTS & ACCESSORIES

- P1. MAG. ANODE 1X1/4" BSP
- P2. P&T: VALVE 3/4" BSP
- P3. HEATING ELEMENT
- P4. CONTROL PANEL



MODEL: HS250VF

MODEL: HS300VF

500 / 1000 Liters

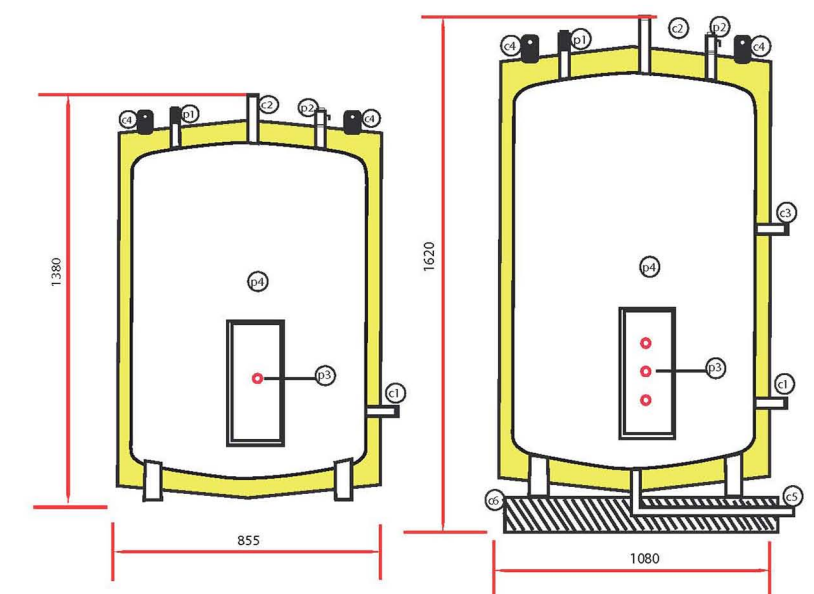
CAPACITY	500 / 1000 LITERS
MOUNT	VERTICAL FLOOR
HEIGHT - 500 LTR	1380MM
HEIGHT - 1000 LTR	1620MM
DIAMETER - 500 LTR	855MM
DIAMETER - 1000 LTR	1080MM
DESIGN PRESSURE(Bars)	15
RATED PRESSURE(Bars)	10
RATED POWER - 500 LTR	9KW, 3PH
RATED POWER - 1000 LTR	18KW, 3PH

CONNECTIONS

- C1. COLD WATER INLET 1" BSP
- C2. HOT WATER OUTLET 1" BSP
- C3. RETURN LINE 1" BSP
- C4. LIFTING HOOKS
- C5. DRAIN LINE 1" BSP
- C6. MOUNTING RING

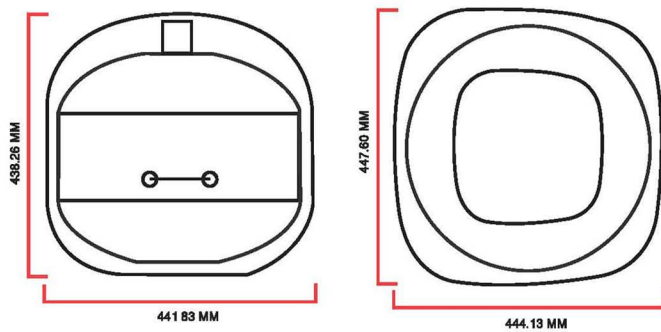
PARTS & ACCESSORIES

- P1. MAG. ANODE 1X1/4" BSP
- P2. P&T: VALVE 3/4" BSP
- P3. HEATING ELEMENT
- P4. CONTROL PANEL



MODEL: HS500VF

MODEL: HS1000VF



CAPACITY (Liters)	HEIGHT(H) LENGTH(L) (mm)	DIAMETER (mm)	POWER (240V, 1Ph)	MAX WORKING PRESSURE
15 ltrs	330 x 325	370	1.2 KW	8 - 10 Bars
30 ltrs	445 x 440	450	1.2 KW	8 - 10 Bars
50 ltrs	470 x 460	510	1.2 KW	8 - 10 Bars

Solar Collector & Storage Tanks

COLLECTOR CASING: Aluminum extruded sections of 16 swg thickness. Weather tight construction, duly anodized and corrosion resistant.

GLAZING: Single pan 4 mm thick, low iron toughened glass, rupture resistant and over 85% transmittance and low reluctance to eliminate glare.

ABSORBER PLATE: Made of grooved copper sheet and copper tube structure soldered to each other providing maximum contact area for excellent heat transfer between sheet and tubes. The absorber plate is coated with black nickel chrome coating to produce a superior selective surface having 95% absorption; and very low emission of 20%.

ALUMINUM FOIL: Attached to the insulation to reflect the emitted heat radiation to the absorber plate, thus minimizing heat loss at the back.

BACK PAN: Made of Aluminum Sheet 20 swg thick duly anodized. **TUBING GRID:** 12 mm. Copper water way silver-brazed to 25 mm copper manifold with an optimal ratio between diameters.

PIPING CONNECTION: Can be made at four locations with the help of bolts and nuts with rubber seals between the joints.

STORAGE TANKS

STORAGE TANK: CRCS Mild Steel Storage Tanks with capacity of up to 500 liters are available in the product range shown.

INSULATION: High density Fiber Glass wool (Thermal conductivity $K=0.050$ Kcal/Hr °C)

OUTER SHELL: Galvanized Steel Jacket with White Powder Coated finish. **SAFETY GROUP:** Air Vent Valve, NRPR Valve.

PLUMBING CONNECTIONS: Inlet, Outlet, Return and Drain BSP threaded

MAGNESIUM ANODE: Mounted on the unit where applicable.



Collector specification

Technical specification of solar collector	
Overall dimension	2120 x 1020 x 100mm
Temperature range	Up to 650°C
Test pressure	5kgs / cm ²

ABSORBER

Fin material	Copper
Surface co	Selectivity coated (Black Nickel Chrome)
Headers / risers / flanges	Copper
Enclosure material	Aluminium extruded section
Insulation (48kgs/m)	Rock wool / spintex 300 or equivalent
Cover plate	Toughened Glass x 4mm

Hot water Storage tank

Capacity (Liters)	Length (H)	Dia (D mm)	Rated Pressure Kg/cm ²	Inner / Outer BSP Thread
100	835	440	8	1/2"
150	1335	440	8	1/2"
200	1735	440	8	3/4"
300	1300	640	8	1"
400	1700	640	8	1"
450	1900	640	8	1"
500	2100	640	8	1"

General Usage

No. of people	2	3	4	5	6	8	9
Capacity (Liters)	100	150	200	300	400	450	500
No. of Solar Collectors	1	1	2	2	3	3	3
Collector surface area	2m ²	2m ²	4m ²	4m ²	6m ²	6m ²	6m ²

Hotline Solar Hot Water System

Model	HS100H	HS150H	HS200H	HS300H	HS400H	HS450H	HS500H
Capacity (Liters)	120	150	200	300	400	450	500
No. of Collectors	1	1	2	2	3	3	3
Installation area required	2.85	3.15	4.71	4.71	6.62	6.62	6.62
Electrical Back up (kw)[Optional]	1.5	1.5	2.0	2.0	2.5	3.0	3.0
Tank stand	Fabricated of angle steel						

The model listed above can be offered in both direct heating and indirect heating design