

ETC Solar Water Heater System

Model	ALPHA PRO		ALPHA PLUS		
Tank Capacity (LPD)	100	150	200	250	300
Collector area (Sq. m)	1.6	2.5	3.3	4.1	4.9
No. of Evacuated tubes	10	15	20	25	30
Size of Evacuated tubes:	Ø58 X 1800				

Marketed By: **Ariston Thermo India Private Limited**
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Specifications:

- Inner tank: SS 304L, Localized passivation
- End connections: SS pipes welded to Dome ($\frac{3}{4}$ " BSP male thread)
- Anode: Mg Anode provided
- Outer tank: Zn Al sheet
- Outer Domes: MS + CED coated
- Stand: GI + Powder coated (same as Alpha Pro)
- Tubes: 58x1800 (quantity same as Alpha Pro)
- Tank working pressure: 0.4 bar (4 meter / 12 feet max)

Advantages over Alpha Pro:

- No movable mechanism like float valve
- No Inlet water flow restriction because Inlet pipe is of same dia as outlet pipe ($\frac{3}{4}$ " BSP)
- No outlet pipe choking issue in hard water areas
- Anode also helps settling sediments at the bottom side. Also protects tank from corrosion. It is recommended to replace the Anode every 6-12 months based on water hardness quality at customer's end.
- This Product can be installed in series.

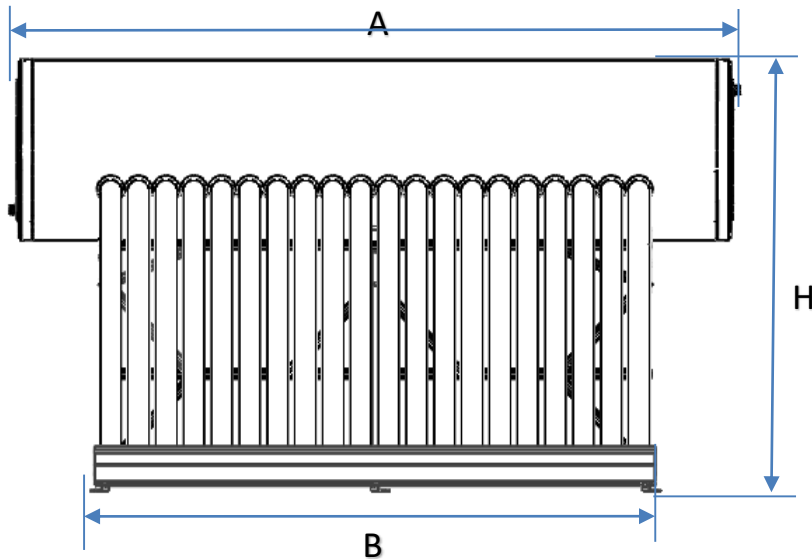
Advantages over old Alpha:

- More puf thickness in Alpha Plus (50 mm instead 30 mm)
- Non welded tank. Very less chances of corrosion compared with old Alpha Tank

Notes:

- Racold NRV is recommended but not compulsory as vent takes the back flow related issues. Just note that NRV helps in avoiding cold water mixing in case of back flow (avoids less hot water issues).
- If source water is having lot of physical impurities, Y strainer or cartridge type filter is recommended. Racold does not provide this along with the standard product.
- If water hardness is too high (>1000 PPM), Racold's Polycarbonate filter is recommended.
- If Chloride PPM is too high (>200 PPM), it is must to replace the Anode every 6 months.
- NRV & Polycarbonate Filter is available in Spares with Service team.
- Vent installed at customer's site must be well supported to avoid any bend or fall due to wind or any other reason.
- Stand assembly must be grouted to firmly secure the system.
- Do not use pressure Pump
- Use pipes & fittings suitable for high water temperature (min. 90°C).
- Vacuum tubes should not be exposed to sunlight with empty tank.
- If Solar system is not being used more than a week time, it is advisable to cover the glass tubes with any opaque sheet.

#	Parameters	Unit	ETC 100 L	ETC 150 L	ETC 200 L	ETC 250 L	ETC 300 L	
1	Diameter of Outer tank	mm	480					
2	Thickness of Insulation layer	mm	50					
3	Density of PUF Insulation	kg/m ³	35-40					
5	Material of outer Cylinder		Zinc-Alum Sheet					
6	Material of inner tank		SS 304 L					
7	Quantity of Vacuum Tube	nos	10	15	20	25	30	
8	Vacuum tube specifications	Dia x L mm	Ø58 X 1800					
9	Material of Stand		GI + Powder Coating					
10	Absorbing area	m ²	1.6	2.5	3.3	4.1	4.9	
11	Angle of Stand	°	25					
12	Corrosion Protection		Mg Anode provided					
13	Inlet Pipe (left Bottom)	nos	3/4" BSP					
14	Outlet (Right Top)	nos	3/4" BSP					
15	Heating Element (Right bottom)		Optional					



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Base Width (B)	812	1212	1612	2012	2412
Height (H)	1150	1150	1150	1150	1150
Tank Length (A)	1197	1597	2097	2647	3047

