



### Technical Specifications of Solar Water Heater Collectors: Ultra Tech

Absorber Material	Birla Copper 99.99% purity 0.27 mm thick 120mm width
Absorber Coating	Selective Black Chrome selective coating NALSUN technology it is internationally acknowledged to the best. Absorptivity > 0.96 Emmissivity < 0.20
Riser	Birla Copper tube of dia 12.5mm, thickness 0.71 mm electrolyte Grade.
Header	Birla Copper tube of dia 25mm, Thickness 0.71 mm electrolyte Grade
Bonding b/w Riser & Header	Silver Brazing 20:80
Bonding b/w Fin & Tube	Ultrasonic Welding / Fusion Welding
End Connection	63 dia brass flanges (4 mm thickness)
Collector Box	Galuminium / Pre coated sheet 2 sq mts (1030 x 2040)
Collector Bottom Sheet	Galuminium
Back Insulation	50 mm thick Resin bonded Rock wool, Density 48 kgs / cu m, R-value =1.82m2K/W
Side Insulation	25 mm thick Resin bonded glass wool, R-value =1.67m2K/W
Glazing	Toughened glass, 4 mm thickness, Transmissivity 88.8% @ near normal incidence
Glazing Retainer	Unique proprietary aluminum Retainer of 1.6 mm thickness
Glass Beeding, GasKet & Gromments	EPDM

#### TECHNNICAL SPECIFICATIONS OF SOLAR WATER HEATERS' STORAGE TANK

Material	IS : 304 Salem Stainless Steel 0.8 mm thickness seam welded with sacrificial anode protection
Insulation	75 mm thick Resin bonded Rock wool, density 1.05 g/cm3
Outer Cladding	Powder Coated Galuminium
Stand Support	Mild Steel Channel Section with Epoxy coating