

# kondaas

Solar Water Heater

More than



### ETC MODEL

Economy Range - Suitable for Gravity Application

### FPC MODEL

Luxury Range - Suitable for Pressure pump application

### GLASS ENAMEL MODEL

Suitable for Hard Water and Pressure Pump Application



Without



KONDAAS offers complete range of solar water heater at par with International Quality Standards. Advanced Evacuated Tube Collector Models (ETC). Traditional Flat Plate Collector Models (FPC). Pressurised and Non-pressurised models to meet specific requirements. Domestic Range starts from 100 lpd to 500 lpd. Project Range starts from 1000 lpd & above. Prompt & Quality Service.

### UNIQUE FEATURES

- TRIPLE LAYER COATING ensures maximum temperature.
- Tanks are manufactured with Double Hemming and Crimping process without welding ensures maximum tank life.
- Innovative Non-welded pipe joint ensures long life.
- Electrical secondary heating system is specially designed for Partial Heating during rainy days to save electricity.
- Double Walled hard borosilicate glass tube with 1.6mm thick ensures better heating and also protect from hass stones.
- Make up tank

### CAPACITY SELECTION CHART FOR ETC

Capacity available Litres per day (LPD)	100	125	150	200	250	300	500
Members	4	5	6	8	10	12	20
Utility Points	2	2	3	4	5	6	10
Max Pipe Length Recommended (in feet)	30	40	50	60	75	100	140
Area req. in feet North South x East West	7x4	7x4	7x5	7x7	7x9	7x10	15x5

### AREAS OF UTILITY

- Homes • Apartments • Hotels • Canteen • Hospitals • Schools • Dairies • Resorts • Fertilizer • Industries • Automobile Industries • Food Processing Industries for Boiler Feed Water etc.,

### Technical information KONDAAS ETC Model

Length (Nominal)	: 1500mm - 1800mm
Outer Tube Diameter	: 47mm - 58mm
Inner Tube Diameter	: 37mm - 47mm
Glass Thickness	: 1.6mm - 2.0mm
Material	: Borosilicate Glass 3.3
Absorptive Coating	: Graded A1/N/A1 ALN/AINSS/CU
Vacuum	: P5 10-3 Pa
Thermal Expansion	: 3.3 10-6/OC
Stagnation Temperature	: .2500C
Absorbance (AM1.5)	: >93% A1/N/A1) / >96% ALN/AIN-SS/CU)
Emittance (800C/1760F)	: <8% A1/N/A1) / <5% ALN/AIN-SS/CU)
Heat Loss	: <0.8W/(M <sup>2</sup> C)
Start up Temperature	: <= 25°C (77?)

### FPC Models Technical Specification

Absorber Material	: Electro Grade - Copper - Copper
Absorber Coating	: Selectively Coated continuous electroplating of Black Chrome over nickel substrate on copper sheet with Heat treatment to withstand temperature up to 300 deg. C. Absorptivity = 0.96+/-0.02, Emissivity = 0.12+/-0.02.
Riser	: Copper Tube - Dia 12.7mm x 0.54mm Thick
Header	: Copper Tube - Dia 25.4mm x 0.71mm Thick
Bonding Between Fin & Tube	: Ultrasonic/Tig
Back Insulation	: Resin Bonded Rock Wool of 48 Kg/mc, thickness 50mm.
Side Insulation	: Polyurethane / Rockwool of thickness 25mm
Collector Box	: 2000mm x 1000mm x 100mm
Collector Bottom Sheet	: Aluminum/G.I of Thickness 0.71mm
Glass	: 4mm Thick Hardened & Toughened (tempered glass) / Textured Glass
Insulation	: Rock wool - 50mm Thick
Side Insulation	: PUF - 25mm Thick all Round
Internal Lining	: Aluminium Foil - 30 micron
Fin Coating	: NALSUN - Black selective coating with >93% absorptivity
Box Material	: Aluminium Extrusion
Back Sheet	: Aluminium / GI Sheet riveted firmly to box frame
Number of Fins	: 9
Connectors	: Brass Flange / Threaded connectors at all ends
Flange	: 4 Inches

### Our Other Products



Solar Water Heater



Solar Pump



Industrial Solar Power Packs



Solar Street Lights



Solar Ongrid

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