

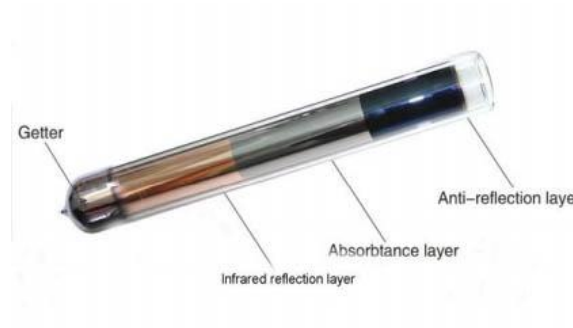
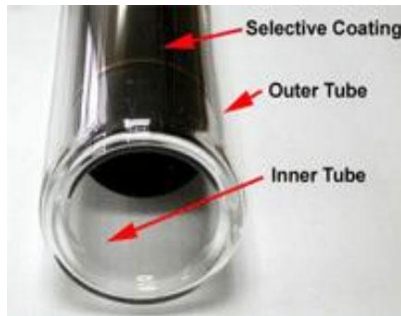
TECHNICAL SPECIFICATIONS OF TUBES

Evacuated glass tubes used as the absorber in ETC solar Water heaters. The ETC is having two concentric tubes with vacuum between the tubes. The outer tube is transparent allowing light rays to pass through with reflection. The inner tube of outer surface is coated with (Al-N-Al) for excellent solar radiation & absorption. The heat in side the glass tube will not transferred to the outer tube because of vacuum present in between concentric tubes.

GREENLIFE ETC (NON PRESSURISED) Tube details & Specification

1. Ø58mm & 1800mm length

2. Ø58mm & 2100mm length



| | | |
|---|-------------------------------|-------------------------------|
| Type | 58 X 1800 | 58 X 2100 |
| Glass Thermal Energy Parameter | $3.3 \times 10^{-6} \text{C}$ | $3.3 \times 10^{-6} \text{C}$ |
| Outer Glass Tube Diameter | 58mm | 58mm |
| Inner Glass Tube diameter | 47mm | 47mm |
| Thickness of the Glass | 1.8mm | 1.8mm |
| Transmission Ratio of the Outer Glass Tube | >0.80 | >0.80 |
| Length of the Vacuum Tube | 1800mm | 2100mm |
| Solar Selective Absorber Coating | AL-N/AL | AL-N/AL |
| Absorptance (AM 1.5) | >0.93 | >0.93 |
| Emission Ration (80) | <0.07 | <0.07 |
| Size | 58 X 1800 | 58 X 1800 |
| Atmospheric Pressure Intensity in Vacuum Jacket | $P < 5 \times 10^{-3}$ | $P < 5 \times 10^{-3}$ |
| Stagnation Temperature | >230 Deg.C | >230 Deg.C |
| Heat Loss Coefficient | <0.75 W/M ² | <0.75 W/M ² |
| Hail Resistant Ability | Ø <25mm | Ø <25mm |
| Max. Pressure Resistant Ability | 0.8MPa | 0.8MPa |

