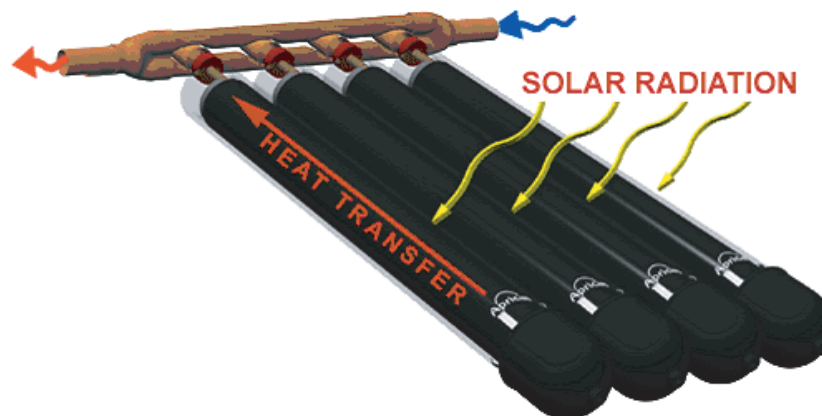
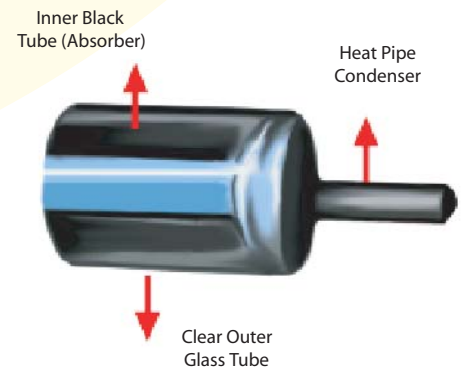


# ESS Heat pipe

The heat pipe, heat transfer fin, and solar tube form the heat absorption and transfer portion of the solar collector. Unlike some other solar tube heat pipe designs, the ESS solar tubes and heat pipes are not joined or fused together. This allows the two components to move independently, allowing for building movement and the expansion and contraction that occurs daily in a solar system.

Model	Glass vacuum tube
Glass material	High-quality borosilicate glass
Glass tube diameter	Ø70mm
Thickness of vacuum	Ø10mm
Wall thickness	Ø2mm
Single tube weight	2 kgs
High vacuum, long-term stability	5×10 <sup>-3</sup> Pa
Absorber material	Aluminum
Coating	Aluminum Nitride Absorption coefficient $\alpha \geq 0.94$
Wind resistance	30m /s
Freezing tolerance	-30 °C
Hail resistance	Ø35mm hail
Isolation temperature	250 °C
Start-up temperature	≤25 °C



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Specifications and technical data are subject to change