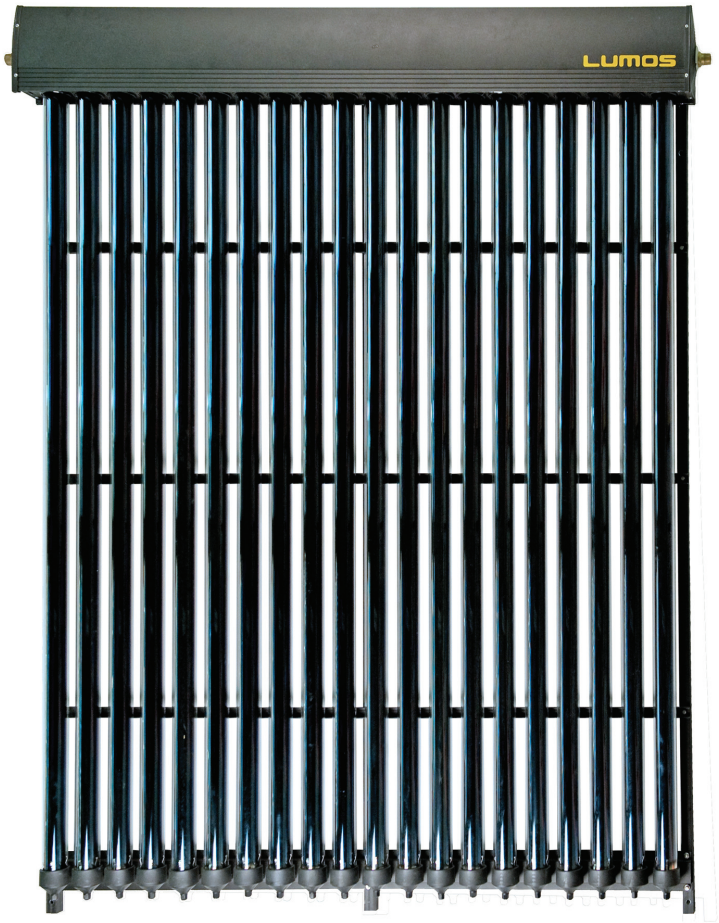


ETubes™ Evacuated Tube Solar Thermal Collectors

Solar Thermal Heat for Residential, Commercial, & Industrial Hot Water Systems

Applications
Domestic Hot Water
Space Heating
Pool & Spa Heating

Advantages
Ideal for Low Light Conditions
Ideal for Cold Climates
Intrinsically Heliostatic
Ease of Installation

LUMOS

Collector Specifications

Model	20 ETube™	30 Etube™
Dimensions	68.1/4” X 80” (1733.6 mm x 2032 mm)	101” X 80” (2565.4 mm x 2032 mm)
Nipple Length	1.5” 1 1/2” (38.1 mm)	1.1/2” (38.1 mm)
Aperture Area	20.02 ft^2 (1.86 m^2)	30.03 ft^2 (2.79 m^2)
Weight	170 lbs (77.1 kg)	252 lbs (114.3 kg)
Nominal Flow Rate	0.56 GPM	0.84 GPM
Storage Tank Size	66 Gallon (250 l)	80 Gallon (250 l)

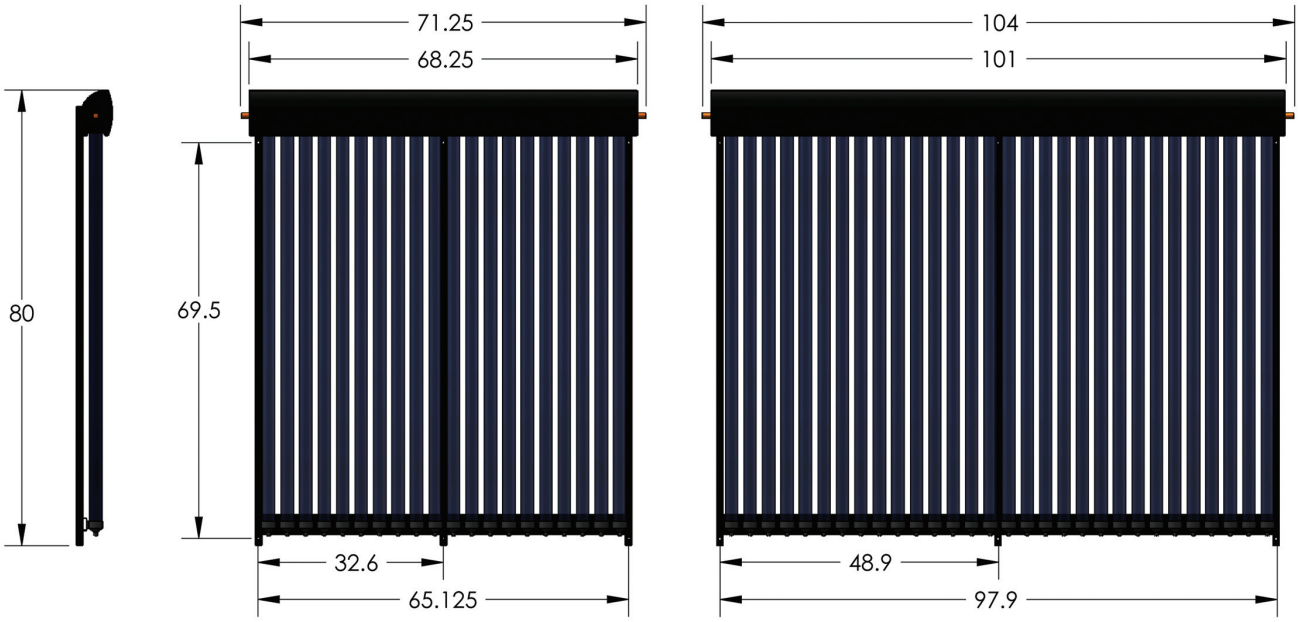
Series Specifications

Tube Length	70” (1778mm)
Outer Tube Diameter	2 3/16” (55.6mm)
Inner Tube Diameter	2 1/8” (54mm)
Tube Thickness	1/8” (3.2mm)
Tube Material	Borosilicate Glass
Tube Coating	Al-N/Al
Thermal Expansion	2 X 10^{-6} /°F
Vacuum	< 7.25 X 10^{-7} psi
Heat Loss	< .404 BTU/ft-hr °F
Absorption Efficiency	> 94%
Emission Efficiency	< 7%
Maximum Strength	145 psi
Manifold Fittings	1” NPT
Maximum Stagnation Temp	393 °F (20.5 °C)
Recommended Tilt Angle	15° - 75°
Warranty	5 years

Performance Data

Thousands of BTUs Per Panel Per Day

	Sunny	Partly Cloudy	Cloudy
20 ETube™			
Warm Climate	28.0	20.0	13.0
Cool Climate	23.0	16.0	8.0
30 ETube™			
Warm Climate	42.0	30.0	19.5
Cool Climate	34.5	24.0	12.0



Rev 2009

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