

SunMaxx™

Evacuated Tube Heat Pipe Solar Collectors



SunMaxx evacuated tube heat pipe solar collectors represent a new standard in solar energy technology. Combining cutting-edge performance and efficiency with highly competitive pricing, SunMaxx is the leader in offering renewable energy solutions to home and business owners.

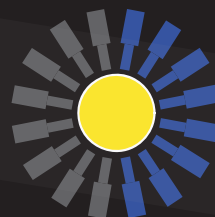
Through numerous design innovations, SunMaxx ensures that each customer receives the best solar thermal product possible. Evacuated tube collectors use a vacuum space within each tube's borosilicate glass shell to offer unsurpassed efficiency and heat loss protection in any climate. In the event of a tube breaking, it can be removed and the entire system will continue to function, ensuring a heating source that will not fail.

There are four unique heat pipe evacuated tube models; the SunMaxx-10 (10 tubes), SunMaxx-20 (20 tubes), SunMaxx-25 (25 tubes) and the SunMaxx-30 (30 tubes). These configurations allow SunMaxx solar collectors to be sized for any solar heating application, including residential, commercial, municipal, agricultural and industrial systems.

SunMaxx solar collectors are independently tested and certified by the world's leading solar energy authorities to ensure that each product is a global leader in reliability, heat output, and return on investment.

Features:

- Ultra-high performance evacuated tube solar collector
- Industry's lowest \$/BTU
- SRCC certified
- Solar Keymark certified
- 10 year warranty available
- Multiple mounting and installation options



Technical Specifications & Features

Series Specifications

| | |
|--|---------------------------|
| Tube Length | 70" |
| Outer Tube Diameter | 2.2" |
| Inner Tube Diameter | 2.1" |
| Tube Thickness | 0.1" |
| Tube Material | Borosilicate Glass |
| Tube Coating | Al - N/Al |
| Thermal Expansion | 3.3×10^{-6} |
| Absorption Efficiency | > 92% |
| Emittance | < 8% |
| Vacuum | $P < 5 \times 10^{-3}$ Pa |
| Heat Loss | < 0.7 W/m ² C |
| Maximum Strength | 1.0 MPa |
| Stagnation Temperature | > 428 °F |
| Flow Rate | 0.028 GPM/tube |
| Fittings | 1" NPT |
| Warranty | 10 Years |
| Warranty (if not installed by a SunMaxx Certified Installer) | 3 Years |
| Expected Lifetime | 25 - 30 Years |
| Manufacturer | Silicon Solar Inc |

Collector Specifications

| Model | SuMaxx-10 | SuMaxx-20 | SuMaxx-25 | SuMaxx-30 |
|--------------------------------------|-----------|-----------|-----------|-----------|
| # of Tubes | 10 | 20 | 25 | 30 |
| Dimensions (inches) | 36 x 79 | 68 x 79 | 85 x 79 | 101 x 79 |
| Weight (lbs) | 88 | 170 | 212 | 252 |
| Net Aperture Area (ft ²) | 10.01 | 20.03 | 25.03 | 30.04 |
| Storage Tank Size (G) | 30 - 40 | 50 - 60 | 60 - 70 | 70+ |
| Nominal Flow Rate (G/min) | 0.28 | 0.56 | 0.70 | 0.84 |



Performance Specifications

| City | SunMaxx-10 | SunMaxx-20 | SunMaxx-25 | SunMaxx-30 |
|--------------|------------|------------|------------|------------|
| | BTU/yr | BTU/yr | BTU/yr | BTU/yr |
| New York | 2,250,000 | 4,500,000 | 5,620,000 | 6,750,000 |
| Philadelphia | 2,440,000 | 4,880,000 | 6,100,000 | 7,320,000 |
| Miami | 4,050,000 | 8,100,000 | 10,100,000 | 12,150,000 |
| Chicago | 2,360,000 | 4,720,000 | 5,800,000 | 7,080,000 |
| Denver | 2,890,000 | 5,760,000 | 7,220,000 | 8,670,000 |
| Los Angeles | 2,250,000 | 4,500,000 | 5,620,000 | 6,750,000 |

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