



**CERTIFIED SOLAR COLLECTOR**

SUPPLIER:  
**SolarTech International LLC**  
 2913 E. 19th St.  
 Tucson, AZ 85716 USA  
 solarheatmypool.com

BRAND: SolarTech  
 MODEL: ST-300  
 COLLECTOR TYPE: Unglazed Flat Plate  
 CERTIFICATION #: 2004010A  
 Original Certification: March 06, 2006  
 Expiration Date: September 19, 2015

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation™ (SRCC™) in accordance with SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors, and has been certified by the SRCC. This award of certification is subject to all terms and conditions of the Program Agreement and the documents incorporated therein by reference.

| COLLECTOR THERMAL PERFORMANCE RATING (Collector Tested per ) |   |   |  |                                    |   |   |  |
|--|---|---|--|------------------------------------|---|---|--|
| Kilowatt-hours (thermal) Per Panel Per Day                   |   |   |  | Thousands of BTU Per Panel Per Day |   |   |  |
| Climate -><br>Category<br>(Ti-Ta)                            | High Radiation<br>(6.3 kWh/m <sup>2</sup> .day) | Medium Radiation<br>(4.7 kWh/m <sup>2</sup> .day) | Low Radiation<br>(3.1 kWh/m <sup>2</sup> .day) | Climate -><br>Category<br>(Ti-Ta)  | High Radiation<br>(2000 Btu/ft <sup>2</sup> .day) | Medium Radiation<br>(1500 Btu/ft <sup>2</sup> .day) | Low Radiation<br>(1000 Btu/ft <sup>2</sup> .day) |
| A (-5 °C)  | 17.7  | 14.2  | 10.7   | A (-9 °F)                          | 60.5  | 48.5  | 36.6   |
| B (5 °C)   | 10.2  | 6.8   | 3.4  | B (9 °F)                           | 34.8  | 23.1  | 11.5   |
| C (20 °C)  | 2.3   | 0.2   | 0.0  | C (36 °F)                          | 7.9   | 0.7   | 0.0  |
| D (50 °C)  | 0.0   | 0.0   | 0.0  | D (90 °F)                          | 0.0   | 0.0   | 0.0  |
| E (80 °C)  | 0.0   | 0.0   | 0.0  | E (144 °F)                         | 0.0   | 0.0   | 0.0  |

**A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate)**  
**D- Space & Water Heating (Cool Climate) E- Commercial Hot Water & Cooling**

| COLLECTOR SPECIFICATIONS  |                      |                       |                        |            |         |
|---------------------------|----------------------|-----------------------|------------------------|------------|---------|
| <b>Gross Area:</b>        | 3.229 m <sup>2</sup> | 34.76 ft <sup>2</sup> | <b>Dry Weight:</b>     | 13 kg      | 28 lb   |
| <b>Net Aperture Area:</b> | 2.889 m <sup>2</sup> | 31.10 ft <sup>2</sup> | <b>Fluid Capacity:</b> | 26.1 liter | 6.9 gal |
| <b>Absorber Area:</b>     | 0.000 m <sup>2</sup> | 0.00 ft <sup>2</sup>  | <b>Test Pressure:</b>  | 517 kPa    | 75 psi  |

| TECHNICAL INFORMATION   | Tested in accordance with: |
|---|----------------------------|
| ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta] |                            |

| Incident Angle Modifier |       |       |       |       |       |       |       | Test Fluid:                  | Water                        |                                  |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|------------------------------|------------------------------|----------------------------------|
| θ                       | 10    | 20    | 30    | 40    | 50    | 60    | 70    | Test Mass Flow Rate:         | 0.202 kg/(s m <sup>2</sup> ) | 148.632 lb/(hr/ft <sup>2</sup> ) |
| <b>K<sub>τα</sub></b>   | -1.16 | -1.17 | -1.18 | -1.21 | -1.25 | -1.32 | -1.47 | <b>Impact Safety Rating:</b> |                              |                                  |

REMARKS:

*Jim Higgins*

Technical Director

