

**CERTIFIED SOLAR THERMAL COLLECTOR**

SUPPLIER:  
**KIOTO Clear Energy**  
Solarstrasse 1  
St. Veit a. d. Glan  
Austria, A-9300 Austria  
www.solcrafte.com

MODEL: Solpal L  
THERMAL COLLECTOR TYPE: Separable Thermosyphon  
CERTIFICATION #: 00600  
Original Certification: February 15, 2013  
Expiration Date: February 15, 2033

This solar collector was evaluated by the Florida Solar Energy Center (FSEC) in accordance with prescribed methods and was found to meet the minimum standards established by FSEC. This evaluation was based on solar collector tests performed by an FSEC approved laboratory. The purpose of the tests is to verify initial performance conditions and quality of construction only. The resulting certification is not a guarantee of long term performance or durability.

A performance test was conducted outdoors in accordance with the FSEC standard 105 solar thermal and component test protocols. The data was used to develop a TRNSYS model for the system. The model was then used to calculate the performance under a set of standard weather conditions and loads. Total solar energy available for the standard day is 5045 Watt-hour/m<sup>2</sup> (1600 Btu/ft<sup>2</sup>) of solar energy, a 22°C (71.6°F) air and water temperature and a 11.75 kilowatt hour (40120 Btu) load.

**COLLECTOR THERMAL PERFORMANCE RATING**

Net Energy Delivered (QNET):	6.1 kWh	20710.0 Btu
Heat Loss Coefficient (L):	12.2 W/°C	23.1 Btu/hr°F

**COLLECTOR SPECIFICATIONS**

Collector and Storage Vessel Specifications		
Gross Area:	2.425 m <sup>2</sup>	26.10 ft <sup>2</sup>
Net Aperture Area:	2.154 m <sup>2</sup>	23.19 ft <sup>2</sup>
Absorber Area:		

**Collector and Storage Vessel Specifications**

Dry Weight:	70 kg	154 lb
Fluid Capacity:	200.0 liter	52.8 gal
Test Pressure:	552 kPa	80 psi

Test Fluid:	Water
-------------	-------

**REMARKS:**

*Joseph Walters*  
Technical Director

Print Date: May, 2020

© 2014 University of Central Florida.

FSEC/UCF ♦ 1679 Clearlake Road ♦ Cocoa, Florida 32922 ♦ (321) 638-1426 ♦ Fax (321) 638-1010 ♦ www.fsec.ucf.edu

