



**CERTIFIED SOLAR THERMAL SYSTEM**

SUPPLIER:  
**Alternate Energy Technologies**  
 1345 Energy Cove Court  
 Green Cove Springs, FL 32043 USA  
 www.aetsolar.com

MODEL: DX-80-40/42  
 THERMAL SYSTEM Pumped, Indirect  
 TYPE:  
 CERTIFICATION #: S9191  
 Original Certification: November 02, 2009  
 Expiration Date: November 02, 2029

This system was evaluated by the Florida Solar Energy Center (FSEC) in accordance with the Florida Standards Program for Solar Domestic Water and Pool Heating Systems (FSEC Standard 104-10) and was found to meet the minimum standards established by FSEC.

The calculated Florida Energy Factors (FEF) for this system are:		
FEF North (FEF <sub>N</sub> )	FEF Central (FEF <sub>C</sub> )	FEF South (FEF <sub>S</sub> )
2.70	3.40	3.60

Option	Collector Panel Manufacturer	Collector Panel Certification Number	Collector Panel Model Number	Quantity	Total Panel area	Total Panel area
1	Alternate Energy Technologies	00213N	MSC-21	2	4.00 (m <sup>2</sup> )	43 (ft <sup>2</sup> )
	Alternate Energy Technologies	00081N	AE-21	2	3.86 (m <sup>2</sup> )	41.54 (ft <sup>2</sup> )
	Alternate Energy Technologies	00090N	AE-40	1	3.70 (m <sup>2</sup> )	39.79 (ft <sup>2</sup> )

Tank Manufacturer	Model	Capacity	Type	Equivalent Tank may be substituted
American	SE 62-80H-045S	303 liter	Solar	YES

Pump Manufacturer	Model Number	Power Draw	Type
TACO	003-BC4	50 W	Centrifugal
TACO	009-F5	160 W	Centrifugal

Controller Manufacturer	Model Number	Type
Independent Energy	GL-30-LCO	Differential

Freeze Protection 1: Drainback
Freeze Protection 2:

**REMARKS:**

*Joseph Walters*  
 Technical Director



# Missing System Diagram Image

If you need System diagram image please contact FSEC  
at [thermal@fsec.ucf.edu](mailto:thermal@fsec.ucf.edu).

