Overview: This 42 collector evacuated tube solar system is located near the Dead sea in Jordan. Designed to provide 80% solar fraction for the hotels DHW needs, the closed loop pressurized system uses ASME rated glass lined pressure tanks to store the preheated water. The system is controlled using a state of the art Honeywell controller that is connected online and can be accessed wherever there is an internet connection. This is useful for performance monitoring, maintenance and fault detection. This installation completed first quarter of 2013 is expected to save the hotel $24,000 USD per year.

“During the first week of operation (February) our boiler rarely fired. We are very happy with the performance of the system thus far.” Building Owner

Project Description:

Property Name: Luxury Hotel
Location: Dead Sea in Jordan
System Type: Closed Loop, Domestic Hot Water
Array Size: 42 Apricus AP-30 Collectors
Fuel Displaced: Diesel Oil
Estimated Cost Savings: 25,000 L / 6,604 gal. or $24,000 USD per year

Apricus APSE-30:

Physical Specifications:
Dimensions: 2.0m x 2.2m / 78.9” x 86.4”
Aperture Area: 2.98m² / 32.05ft²
Gross Area: 4.15m² / 44.76ft²
Gross Dry Weight: 95kg / 209lb
Fluid Capacity: 710ml / 24 fl oz
Max Pressure: 800kPa / 116psi

Materials of Construction:
Evacuated Tubes: Borosilicate 3.3. Glass
Absorber Coating: Aluminum Nitrate
Heat Pipes: High Purity Copper
Mounting Frame: 6005-T5 Aluminum Alloy
Manifold Casing: 3A21 Anodized Aluminum

Warranty:
Manifold & Frame: 15 years
Tubes & Heat Pipes: 10 years

Contact Information:
Mustakbal Clean Tech: 58 Abdullah Ghoysheh St.
Amman, Jordan
T: +962 6 5866004

Copyright © 2013 Apricus Solar Co., Ltd. www.apricus.com