Case Study
College Dormitory

Overview: Forty Apricus AP-30 solar collectors were installed by J.R. Pierce Plumbing Company on the roof of a new, 4 story, energy efficient dormitory building at California State University - Sacramento. The four story building is home to 610 university students and is used year round. The direct flow system is used to pre-heat the building’s domestic hot water before it enters the water heating system.

In designing the system to meet LEED requirements J.R. Pierce chose Apricus because “the competition could not do that for what the university had budgeted for.” The collectors were chosen due to the fact they can deliver more hot water during the winter when the building is full and the demand is the greatest. Everyone involved worked diligently to ensure that the university ended up with a quality system at an affordable price.

Project Description:

Property Name: California State University
Location: Sacramento, CA
System Type: Direct Flow, Domestic Hot Water
Array Size: 40 Apricus AP-30 Collectors

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: 439 Stainless Steel
Manifold Casing: 5005-H16 Anodized Aluminum

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

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