Overview: The Oxford dining facility at the University of California - Davis uses 23 Apricus AP-30 collectors in a drainback configuration to preheat water before it enters the high efficiency boilers. The system, designed and installed by J.R. Pierce plumbing, was designed to offset 10% of the building's total energy consumption.

The University design was looking to upgrade the building to achieve LEED silver status and found that most solar companies could not find a way to lay out collectors with the scattered mechanical equipment on the roof. J.R. Pierce found a solution by building a metal roof to protect the water heating equipment and then place the collectors on a metal frame above the other mechanical equipment. In doing so, the solar water heating system helped the building reach a higher mark, LEED gold.

Project Description:

Property Name: University of California
Location: Davis, CA
System Type: Drainback Commercial Hot Water
Array Size: 23 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

Contact Information:

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