

Case Study

Jail Annex



Overview: 220 AP-30 solar collectors were installed on the Bexar County Jail complex. The existing six thousand gallon storage tank was modified with a new supply and return piping arrangement and the system is incorporated into the Honeywell building automation and information system. The system supplies virtually all of the water for the kitchen, showers, and bathroom facilities at the Jail.

The Bexar County Jail project replaced an existing flat panel drain-back system that froze and failed within eighteen months of installation. The Apricus system was chosen because of its higher efficiency, lower likelihood of failure and low maintenance requirements. The system is expected to save the jail between \$30,000 and \$60,000 per month.

“Solar is clean, renewable and domestic and it’s getting cheaper by the day. We also need it for national security, even if it’s through the prism of Bexar County.”

~ Tommy Adkisson, Bexar County Commissioner



Project Description:

Property Name:	Bexar County Jail Annex
Location:	San Antonio, TX
System Type:	Direct Feed, Domestic Hot Water
Array Size:	220 Apricus AP-30 Collectors
Expected Savings:	\$30,000 - \$60,000 per month

Apricus APSE-30:

Physical Specifications:

Dimensions:	2.0m x 2.2m / 78.9" x 86.4"
Aperture Area:	2.98m ² / 32.05ft ²
Gross Area:	4.15m ² / 44.76ft ²
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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