Case Study

Emergency Hospital

Overview: Constructed in 2012, this system was designed to produce domestic hot water for the hospital as well as preheat the existing system. Consisting of 80 Apricus AP-30 Evacuated Tube Collectors, the system sits on top of the building, stretching across the roof. Designed to handle the building's total hot water consumption, the system has one 5,000 liter tank, one 3,000 liter tank, pumps, pipes, heat exchangers, and a controller which was installed to monitor the system's performance. installed to monitor the system's performance.

CYCLON

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Project Description:

Property Name:	Bralia County Emergency Hospital, Pavilion B
Location:	Bralia, Romania
System Type:	Domestic Hot Water
Array Size:	80 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