

Case Study

University Dormitories



Overview: Designed, installed and financed by Paradigm Partners from Medford, Massachusetts is this four system solar thermal project at Brandeis University. Designed for four of the University's Charles River Quad Dormitories, the drainback system consists of 78 Apricus AP-30 Evacuated Tube Collectors.

Installed in September of 2013, the project was the first under the Massachusetts Clean Energy Center's Commercial Solar Thermal Financing Program which allows commercial and non-profit building owners to reduce their water heating bills by installing solar hot water at little or no upfront cost. Offsetting heating oil, these systems are saving the University 8,300 gallons of oil and eliminating 200,000 pounds of greenhouse gases annually.

To learn more about the Massachusetts Clean Energy Solar Thermal Program, visit www.masscec.com.



Project Description:

Property Name:	Brandeis University
Location:	Waltham, MA USA
Building Use:	Student Housing
Array Size:	78 Apricus AP-30 Collectors
Annual Energy Savings:	8,230 gallons of heating oil
Average Daily Output:	148.2 kw
System Type:	Drainback Domestic Hot Water
Design & Installation:	Paradigm Partners

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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