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:

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

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:

Apricus Inc: 370 State Street, Unit 2
North Haven, CT 06473 USA
T: 1-800-458-2634

Paradigm Partners: 275 Mystic Avenue, Suite B
Medford, MA 02155 USA
T: (781) 219-4619