

Case Study

25 Unit Apartment Building



Overview: This is a commercial project funded through the Massachusetts Clean Energy Council (Mass CEC) and the Federal Government. The system, which consists of 12 Apricus AP-30 Collectors, will produce an estimated 54% of the domestic hot water use for the entire 25 unit building saving over 1200 Therms per year which is the equivalent of 120,000,000 Btu's or 35,160 kilowatt-hours.

The system saves 14,742 pounds of carbon dioxide from being released into the atmosphere each year or the equivalent of 368 mature trees, which means that over the 30-year lifetime of the system, it will save 22 tons of CO₂.



Contact Information:

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Project Description:

Property Name: Southgate Place
Location: Worcester, MA
System Type: Closed Loop Domestic Hot Water
Array Size: 12 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