AE-SERIES COLLECTORS

Capturing a clean, renewable energy source to provide reliable solar products since 1975.
Crystal Clear™ Selective Coating
The Crystal Clear™ Solar-Selective coating is technically a Quartz Encapsulated Bimetallic Alloy. Thousands of nanocrystalline growth projections dramatically increase the surface area of the absorber plate for maximum solar radiation absorption and performance. Crystal Clear™ has been tested for over 14,500 hours at 67°F continuously with minimal visible or physical degradation of its thermal characteristics. Furthermore, Crystal Clear™ enhances the thermal performance of the absorbers by an additional 3%. The finished coating hosts an Absorptivity of > 0.96 & Emissivity of < 0.08

THERMAFIN™ Absorbers
AET introduced THERMAFIN™ absorbers into the AE-Series collectors in 1996. Through extensive research and development, we have employed the best heat transfer method in the world today. THERMAFIN’s high-frequency, forge weld process molecularly bonds the fin to the tube providing long-lasting performance and durability while allowing the highest heat conduction. The high-frequency welded joints will not weaken, expand, or pull apart and are backed by a written 30 year guarantee.

Electrostatically Painted C-Channel Construction
Our AE-Series Collector frames are fabricated in our state-of-the-art manufacturing plant located in Jacksonville, Florida. Crafted using aluminum extrusions with electrostatically applied bronze polyester paint and securely fastened with aircraft grade pin grip rivets, AE-Series Collectors are built to withstand the most demanding environments.

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<tbody>
<tr>
<td>Length (in)</td>
<td>85.187</td>
<td>97.187</td>
<td>77.187</td>
<td>85.187</td>
<td>97.187</td>
<td>121.187</td>
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<tr>
<td>Width (in)</td>
<td>35.187</td>
<td>35.187</td>
<td>47.187</td>
<td>47.187</td>
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<td>47.187</td>
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<tr>
<td>Gross Area (ft²)</td>
<td>20.8</td>
<td>23.7</td>
<td>25.3</td>
<td>27.9</td>
<td>31.8</td>
<td>39.7</td>
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<tr>
<td>Fluid Capacity (gals)</td>
<td>0.70</td>
<td>0.76</td>
<td>0.90</td>
<td>0.96</td>
<td>1.05</td>
<td>1.22</td>
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<tr>
<td>Dry Weight (lbs)</td>
<td>74</td>
<td>84</td>
<td>90</td>
<td>99</td>
<td>113</td>
<td>153</td>
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AE-Series "Flat Panel" Solar Thermal Collectors, manufactured in the United States of America by Alternate Energy Technologies (AET), are designed to meet the needs of any solar system. Our expert design team will assist in sizing any job to provide hot water, space heating, radiant floor heating or industrial process heat. AET is dedicated to building our AE-Series Collectors from the finest materials and with the highest standards of craftsmanship.

All AE-Series Collectors Feature:
- Wind load tested to allowable loads of 52 PSF
- Crystal Clear™ selective coatings
- Extruded aluminum frame and battens
- Thermax™ polyisocyanurate foam insulation
- Aircraft aluminum pin grip rivets
- 30+ year design life
- 10 year warranty
- Proudly made in the U.S.A.
- THERMAFIN ™ absorber plates
- Quick-lock mounting hardware
Why choose AET and AE-Series Solar Collectors?

- AET and its predecessors are based in the United States and have been manufacturing solar thermal collectors since 1975.

- AET has managers, engineers and installation experts with over 100 years of combined experience in the solar industry.

- All AE-Series collectors feature an attractive low profile skylight design.

- AET's new energy efficient Thermatool solid-state weld head has reduced the carbon footprint of manufacturing solar collectors by 25%.

- AET is proud to provide collectors that are designed for 30+ years of dependable service and carry a full 10 year warranty.

- The AE-Series collector's quick-lock mounting hardware is integrated into the frame wall for easy collector installation and to add to its already attractive design.

- AET collectors are built with quality components to ensure durability and performance.

- Our Crystal Clear™ selective coating is non-toxic and a more efficient electro-plating than other coating methods used in the solar industry.

AE Series Solar Collectors have been constructed to meet the major applicable national and international codes, including the following:

- Miami Testing Laboratory
  Wind Load Test (ASTM E 330)
  Certification No. 94-1028.01

- Florida Solar Energy Center
  Test Methods and Minimum Standards for Solar Collectors (ASHRAE Std 93-1986)

- Solar Rating and Certification Corporation SRCC
  Standard 100-Tested Methods and Minimum Standards for Certifying. Solar Collectors
  (ASHRAE Std 93-1986)

- International Association of Plumbing and Mechanical Officials (IAPMO) • Uniform Solar Energy Code (USEC)
  File No. S-5038

- Bodycote Materials Testing Canada Inc.
  Report No. 02-08-0513

- TÜV Bayern Sachen e.V. (DIN 4757)
  Report No. 28600399

- Bundesforschungs - und Prufzentrum Arsenal
  ONORM M 7714- Order No. M 4 015