Laser Welded Full Sheet Absorber Plates
— HTP’s one of a kind laser welding technology, an exclusive procedure in the US, allows us to offer full sheet absorber plates, maximizing the overall surface area of the absorber plate in the collector box. Through laser welding, it is now possible to join the copper riser tubes to a thick, high performing aluminum absorber sheet making a very durable absorber plate that can withstand the extreme temperature gradients and thermal expansion inside the collector box. Laser welding technology delivers increased collector performance and enhanced aesthetics.

Improved Selective Surface Coatings
— Our Full Sheet Absorber Plates offer the highest performance of absorbive coatings in the industry. While the IR reflective coating ensures low thermal emissivity – Epsilon (ε), the oxidic absorption and anti-reflective coatings ensure the maximum level of solar absorption – alpha (α).

Multiple Collector Sizes and Mounting Configurations
— HTP has many sizes to meet the job from the large 4x10 commercial workhorse, down to the easy to handle 4x6.5’ residential size. Our continuous perimeter mounting channel offers the most mounting flexibility in the industry for ground mount, awning mount, flush mount and rack mount installations.

Made in America
— Just like HTP’s full lineup of Made in America solar tanks, our collectors are Made in America in our factory in Massachusetts. With the one and only laser welder for solar thermal in the US, we not only have enough capacity to build collectors for ourselves, but we have enough capacity to offer OEM opportunities for others as well.

Features:
• High Performance
• SRCC Certified
• USEC Certified by ICC
• 10 Year Warranty
• Multiple Mounting Options
• Highest Pressure Test in the Industry 350 psi

Applications:
• Domestic Hot Water
• Radiant Floor/Space Heating
• Solar Pool, Spa & Hot Tub Heating
• Residential SHW Systems
• Commercial SHW Systems
• Industrial SHW Systems
• Municipal SHW Systems
• Agricultural SHW Systems
Commercial or Residential

Solar Thermal Makes Sense Now

Residential Systems

How Can Solar Thermal Help?
• Reduce your water heating bills by 50% to 75%
• Diminish harmful CO2 gasses
• Increase the resale value of your home or business

Incentives and Rebates
Available for Solar Thermal
• 30% Federal Tax Credit
• Accelerated Depreciation
• State Incentives
• Utility Incentives

Commercial Systems

Space Heating

Domestic Hot Water

Water Park

Dormitory
Solar Skies SS-FP Series Collectors

Laser Welding

Laser welding of the absorber sheet to the absorber tubes ensures a very high mechanical bond to withstand the high temperature gradients and thermal expansion. Laser welding also provides enhanced performance and aesthetics.

Corner Brackets
Architectural aluminum angles inside with special pin grip rivets insure high stability.

Full Sheet Aluminum Absorber

Factory Installed Unions

Lightweight Aluminum Frame
...this facilitates long life and strength.

Aluminum Extruded Batten
No silicon is used! Ribbed aluminum extrusions and a smooth compressed EPDM gasket provide water tightness. This allows easy access to the collector for repair or maintenance at any time or location.

Glass Gasket
...a UV durable EPDM channel with molded corners assures long life and avoids all water penetration.

Universal Mounting Frame
The variable Quick Lock mounting hardware reduces mounting time and makes it simple for anyone to install. Mounting possibilities include: Pitched-roof, Flatroof, Ground, Balcony, and Facade mounting.

Highest Absorptive Coating in the Industry
Vapor Deposition Coating
\( \alpha \approx 95\% \)
\( \varepsilon \approx 5\% \)

Copper Absorber Tubes

Foil-Faced Poly-Isocyanurate Insulation Sheathing

Embossed Aluminum Backsheet

- HT P Made In America
Technical Specifications & Features

Series Specifications

<table>
<thead>
<tr>
<th>Flat Plate Collectors</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-40-FP-U</td>
<td>4’ x 10’ Flat plate collector - 121.25” x 47.25” / 153 lbs.</td>
</tr>
<tr>
<td>SS-32-FP-U</td>
<td>4’ x 8’ Flat plate collector - 97.25” x 47.25” / 113 lbs.</td>
</tr>
<tr>
<td>SS-26-FP-U</td>
<td>4’ x 6.5’ Flat plate collector - 77.25” x 47.25” / 90 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mounting Hardware for Flat Plate Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT-TM</td>
</tr>
<tr>
<td>MT-FM</td>
</tr>
<tr>
<td>MT-RM</td>
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<tr>
<td>EI022</td>
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</tbody>
</table>

Solar Skies (model) - Size (ft²) - FP (full plate) - U (factory installed unions): factory installed union collectors must purchase an A505 cap, plug and union kit for each plumbing collector array installed. An array is any number of collectors unioned together (up to 8)

Performance Specifications

<table>
<thead>
<tr>
<th>SS-40-FP</th>
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</thead>
<tbody>
<tr>
<td>Thous. of Btus per panel per day</td>
</tr>
<tr>
<td>Clear Day</td>
</tr>
<tr>
<td>Mildly Cloudy</td>
</tr>
<tr>
<td>Cloudy Day</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Weather Category (Ti-Ta)*</th>
<th>Clear Day</th>
<th>Mildly Cloudy</th>
<th>Cloudy Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (-9°F)</td>
<td>46.1</td>
<td>34.8</td>
<td>23.5</td>
</tr>
<tr>
<td>B (9°F)</td>
<td>44.0</td>
<td>32.7</td>
<td>21.4</td>
</tr>
<tr>
<td>C (36°F)</td>
<td>40.6</td>
<td>29.3</td>
<td>18.0</td>
</tr>
<tr>
<td>D (90°F)</td>
<td>34.2</td>
<td>23.0</td>
<td>11.8</td>
</tr>
<tr>
<td>E (144°F)</td>
<td>27.1</td>
<td>16.8</td>
<td>6.2</td>
</tr>
</tbody>
</table>

Information on Models: SS-26-FP, SS-32-FP & SS-40-FP is available on our website: www.htproducts.com

SS Series Mounting Hardware

SS Series Mounting Hardware

“QUICK LOCK” MOUNTING FRAME

The variable Quick Lock mounting hardware reduces mounting time and makes it simple for anyone to install. The Quick Lock System allows the highest flexibility in mounting and can withstand extreme conditions. Mounting possibilities include: Pitched-roof, Flat-roof, Ground, Balcony, and Facade mounting.

272 Duchaine Blvd, New Bedford, MA 02745
www.htproducts.com
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