HELIOPAK HEAT-TRANSFER APPLIANCE

The Helio-Pak (HPAK) is an all-in-one closed loop heat-transfer appliance, specifically designed to simplify solar hot water systems, and provide maximum heat transfer. The HPAK comes factory assembled, and wired with all necessary components, making installation a trouble-free experience. With its unique design, the SRCC rated its performance as being 25% more efficient than conventional internal heat exchangers.

A major benefit the Helio-Pak provides is that it attaches directly onto the hot water tank. As a result, under certain conditions, the HPAK can be mounted onto a pre-existing water tank, thereby reducing costs. This is a feature no other solar hot water heat-exchanger on the market can offer.

Features
- Augmented heat exchanger surface promotes maximum heat generation
- Superior heat transfer via unique counterflow design
- 25% more efficient than conventional internal heat exchangers
- Under certain conditions, can mount to existing tank
- “Plug & Play” installation
- Viewable heat exchanger leak detection
- Several sizes available for differing loads

HELIO-PAK PRO UPGRADE

The Helio-Pak Pro (with pre-installed Delta-T Pro controller) further enhances the residential solar hot water system, with the addition of user-friendly customizable settings, remote navigation, and expanded system performance data.

Features
- Remote Wi-Fi system navigation
- BTU metering
- Stored energy data (BTU, °F, GPM)
- Adjustable user settings
- Vacation mode

Optional IPAQ PDA for remote system monitoring. An optional add-on to the HPAK Pro. Sold separately.

Helio-Pak vs. Conventional Heat-Transfer Appliance

100% factory-tested to 300 psi

Forced counterflow
- Leak detection efficiency
- Augmented surface promotes heat generation

EXCELLENCE BY DESIGN
TECHNICAL SPECIFICATIONS

Double wall heat exchanger maximizes the heat transfer between the domestic hot water and the solar fluid.

Included controller monitors and regulates the system.

Flow Sensor (HPAK Pro model only)

Insulating foam minimizes heat loss, and adds a clean look.

DHW Connections

Solar loop connections

Combo valve includes a gravity break (to prevent thermosiphoning at night), check valve, ball valve, and thermometer.

Valve for convenient and quick filling of the system.

Expansion tank connection

The HPAK mounts easily to the hot water tank with 4 self-tapping screws (included).

Hydraulic diagram

- Temp. gauge
- Ball valve
- Check valve
- Temp/Flow sensor (HPAK Pro only)
- Solar loop pump
- Water supply pump
- Pressure gauge
- Relief valve
- Fill valve
- Ball valve
- Fill valve
- Heat exchanger

Mounting diagram

MODEL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HPAK 16</th>
<th>HPAK 24</th>
<th>HPAK 32</th>
<th>HPAK 48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat transfer rate (BTU / hour&lt;sup&gt;1&lt;/sup&gt;)</td>
<td>16000</td>
<td>24,000</td>
<td>32,000</td>
<td>48,000</td>
</tr>
<tr>
<td>Recommended Flow Rate&lt;sup&gt;2&lt;/sup&gt; (Gallons per Minute)</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Max Collector Surface Area (ft&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>96</td>
<td>160</td>
<td>200</td>
<td>321</td>
</tr>
<tr>
<td>Recommended Pump Speed (Energy Use)</td>
<td>1 (60W)</td>
<td>2 (90W)</td>
<td>2 (90W)</td>
<td>3 (110W)</td>
</tr>
<tr>
<td>Max Piping Resistance&lt;sup&gt;3&lt;/sup&gt; (ft of Water)</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>55</td>
<td>65</td>
<td>75</td>
<td>90</td>
</tr>
<tr>
<td>Expansion Tank</td>
<td>2 gal.</td>
<td>2 gal.</td>
<td>5 gal.</td>
<td>5 gal.</td>
</tr>
<tr>
<td>Voltage</td>
<td>110 VAC, 60 Hz</td>
<td>110 VAC, 60 Hz</td>
<td>110 VAC, 60 Hz</td>
<td>110 VAC, 60 Hz</td>
</tr>
</tbody>
</table>

<sup>1</sup> - At full sun and 20° log mean temperature differential
<sup>2</sup> - With max collector surface area installed
<sup>3</sup> - With recommended pump speed

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