It's Time to Save Energy!

Solar Water Heating Systems

www.era-solar.com
Era Solar Energy Solutions is a professional manufacturer of solar systems and solutions with long experience in engaging into all kinds of low carbon solar energy products, covering a wide range of solar water heating systems and accessories.

Our goal is focusing on continuous improvement of products, R&D, management and services. We are strongly committed to our unique mission of providing reliable solar solutions for our customers and partners all over the world.
Contents

Solar Water Heating System / 4-8
• Compact Non-Pressurized Solar Water Heater 4
• Compact Pressurized Solar Water Heater 5
• Compact Pressurized Solar Water Heater with Heat Pipe 6
• Non Pressurized Solar Collector 7
• Pressurized Heat Pipe or U-Type Solar Collector 8

Solar Water Heater Tank Production / 9
Compact Non-Pressurized Solar Water Heater

**Water Tank**
- Inner Tank: Food Grade SUS304-2B Stainless Steel 0.5mm
- Outer Tank: Painted Steel 0.4mm
- Tank Diameter: 360mm / 470mm

**Insulation**
- Polyurethane Foam 50 - 55mm

**Solar Vacuum Tube**
- One Layer Coating AL-N / AL

**Frame**
- Galvanized Steel or Aluminum Alloy 1.2 - 2mm, Installation angle 30 or 45 Degrees

**Optional Accessories**
- Electric Heater
- Assistant Tank (5L / 8L / 20L)
- Solar Controller
- Magnesium Rod

---

**Data sheet**

<table>
<thead>
<tr>
<th>Model</th>
<th>Vacuum Tube</th>
<th>Capacity (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERAS8/1800-10</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERAS8/1800-15</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERAS8/1800-20</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERAS8/1800-30</td>
<td>58</td>
<td>1800</td>
</tr>
</tbody>
</table>
Compact Pressurized Solar Water Heater With Heat Pipe

Water Tank
- Inner Tank: Food Grade SUS304-2B Stainless Steel 0.5mm
- Outer Tank: Painted Steel 0.4mm
- Tank Diameter: 360mm / 470mm

Insulation
- Polyurethane Foam 50 - 55mm

Solar Vacuum Tube
- One Layer Coating AL-N / AL

Heat Pipe
- Heat Pipe Anti-Freezing 0.6mm

Frame
- Galvanized Steel or Aluminum Alloy 1.2 - 2mm, Installation angle 30 or 45 Degrees

Optional Accessories
- Electric Heater
- Solar Controller
- Magnesium Rod

Data sheet

<table>
<thead>
<tr>
<th>Model</th>
<th>Vacuum Tube</th>
<th>Capacity (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Φ (mm)</td>
<td>Length (mm)</td>
</tr>
<tr>
<td>ERA58/1800-10</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-15</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-20</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-30</td>
<td>58</td>
<td>1800</td>
</tr>
</tbody>
</table>
Non-Pressurized Solar Collector

Controller Mainfold
- Aluminum Alloy

Inner Tank
- Food Grade SUS304-2B Stainless Steel 0.5mm

Outer Tank
- Color Steel Plate

Insulation
- Color Steel Plate

Solar Vacuum Tube
- Three Layer Coating SS-ALN(L) / ALN

Frame
- Galvanized Steel or Aluminum Alloy 1.2 - 2mm, Installation angle 30 or 45 Degrees

Data sheet

<table>
<thead>
<tr>
<th>Model</th>
<th>Vacuum Tube</th>
<th>Tube Orientation</th>
<th>Aperture Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERA58/1800-10</td>
<td>58</td>
<td>1800</td>
<td>Vertical</td>
</tr>
<tr>
<td>ERA58/1800-15</td>
<td>58</td>
<td>1800</td>
<td>Vertical</td>
</tr>
<tr>
<td>ERA58/1800-20</td>
<td>58</td>
<td>1800</td>
<td>Vertical or Horizontal</td>
</tr>
<tr>
<td>ERA58/1800-30</td>
<td>58</td>
<td>1800</td>
<td>Vertical or Horizontal</td>
</tr>
<tr>
<td>ERA58/1800-20</td>
<td>58</td>
<td>1800</td>
<td>Horizontal</td>
</tr>
</tbody>
</table>
Non-Pressurized Solar Collector

Controller Mainfold
• Aluminum Alloy

Inner Tank
• Food Grade SUS304-2B Stainless Steel 0.5mm

Outer Tank
• Color Steel Plate

Insulation
• Color Steel Plate

Solar Vacuum Tube
• Three Layer Coating SS-ALN(L) / ALN

Frame
• Galvanized Steel or Aluminum Alloy 1.2 - 2mm, Installation angle 30 or 45 Degrees

Data sheet

<table>
<thead>
<tr>
<th>Model</th>
<th>Vacuum Tube</th>
<th>Tube Orientation</th>
<th>Aperture Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Φ (mm)</td>
<td>Length (mm)</td>
<td>Qty (Pcs)</td>
</tr>
<tr>
<td>ERAS8/1800-10</td>
<td>58</td>
<td>1800</td>
<td>10</td>
</tr>
<tr>
<td>ERAS8/1800-15</td>
<td>58</td>
<td>1800</td>
<td>15</td>
</tr>
<tr>
<td>ERAS8/1800-20</td>
<td>58</td>
<td>1800</td>
<td>20</td>
</tr>
<tr>
<td>ERAS8/1800-30</td>
<td>58</td>
<td>1800</td>
<td>30</td>
</tr>
<tr>
<td>ERAS8/1800-20</td>
<td>58</td>
<td>1800</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Vertical</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Vertical or Horizontal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Horizontal</td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Vertical or Horizontal</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Vertical or Horizontal</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Horizontal</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>
Pressurized Heat Pipe or U-Pipe Solar Collector

**Controller Mainfold**
- Aluminum Alloy 1.5mm

**Mainfold Header**
- Copper

**Outer Tank**
- Condenser φ 14mm, Copper Pipe φ 8mm

**U-Pipe**
- Copper Pipe φ 8mm

**Max Operating Pressure**
- 0.7 Mpa

**Insulation**
- Polyurethane Foam 50 - 55mm

**Solar Vacuum Tube**
- Three Layer Coating SS-ALN(L) / ALN

**Frame**
- Aluminum Alloy 1.2 - 2mm, Installation angle 30 or 45 Degrees

---

**Data sheet**

<table>
<thead>
<tr>
<th>Model</th>
<th>Aperture Area (m²)</th>
<th>Pipe Type</th>
<th>Qty (Pcs)</th>
<th>Vacuum Tube</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ERA58/1800-10</td>
<td></td>
<td>Heat Pipe or U-Pipe</td>
<td>10</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-15</td>
<td>1.5</td>
<td>Heat Pipe or U-Pipe</td>
<td>15</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-20</td>
<td>2</td>
<td>Heat Pipe</td>
<td>20</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-25</td>
<td>2.5</td>
<td>Heat Pipe</td>
<td>25</td>
<td>58</td>
<td>1800</td>
</tr>
<tr>
<td>ERA58/1800-30</td>
<td></td>
<td>Heat Pipe</td>
<td>30</td>
<td>58</td>
<td>1800</td>
</tr>
</tbody>
</table>
Solar Water Heater Tank Production

Procedure for Outer Tank Production

- Lamination
- Sheet Shearing
- Sheet Punching
- Screw Hole Punching
- Bending
- Locking
- Shrinkage
- Foaming

Procedure for Inner Tank Production

- Sheet Shearing
- Hole Punching
- Seam Welding
- Tank Grooving
- End Bending
- Nipple Welding
- Cover Welding
- Leakage Testing
- Foaming

Workshop

[Images of a workshop environment with equipment and machinery]
Thank You

13 Mahmoud Awad St.,
Nasr City, Cairo, Egypt
Tel: +202 2349 6561
Mob: +2012 8744 1141
info@era-solar.com

www.era-solar.com