PS2-4000 AHRE-07HL Energy-2
Solar Submersible Pump System for 4" oil and gas wells

System Overview
Head: max. 1.600 ft
Flow rate: max. 6.2 USG/min

Technical Data

**Controller PS2-4000 Energy**
- Solar direct or via PowerPack
- Control inputs for dry running protection, remote control etc.
- Controlling and monitoring
- Programmable pump cycles and flow rates
- Integrated data logger with Bluetooth

Power: max. 4.0 kW
Input voltage: max. 375 V
Optimum Vmp**: > 238 V
Motor current: max. 14 A
Efficiency: max. 98 %
Ambient temp.: -40...122 °F
Enclosure class: IP68

**Motor ECDDRIVE 4000-HRE Energy**
- Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor
- Plug connection

Rated power: 5.4 HP
Efficiency: max. 92 %
Motor speed: 900...3.300 rpm
Insulation class: F
Enclosure class: IP68
Submersion: max. 1.640 ft

**Pump End PE AHRE-07HL Energy-2***
- Stilling tube for solid reduction
- Premium materials, stainless steel: AISI 304/316
- Tungsten plated rotor
- Helical rotor pump

Efficiency: max. 87 %

**Pump Unit PU4000 AHRE-07HL Energy-2 (Motor, Pump End)**
Borehole diameter: min. 4.0 in
Fluid temperature: max. 122 °F

Standards
CE
2006/42/EC, 2004/108/EC, 2006/95/EC
IEC/EN 61702:1995

The logos shown reflect the approvals that have been granted for this product family. Products are ordered and supplied with the approvals specific to the market requirements.

**Vmp:** MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature
***Specify temperature range on order

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Solar Submersible Pump System for 4" oil and gas wells

Pump Chart

Dimensions and Weights

Controller

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>14 in</td>
</tr>
<tr>
<td>H2</td>
<td>13 in</td>
</tr>
<tr>
<td>W1</td>
<td>8.1 in</td>
</tr>
<tr>
<td>W2</td>
<td>6.7 in</td>
</tr>
<tr>
<td>W3</td>
<td>6.5 in</td>
</tr>
<tr>
<td>D1</td>
<td>4.9 in</td>
</tr>
</tbody>
</table>

Pump Unit

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>57 in</td>
</tr>
<tr>
<td>B</td>
<td>11 in</td>
</tr>
<tr>
<td>C</td>
<td>46 in</td>
</tr>
<tr>
<td>D</td>
<td>3.8 in</td>
</tr>
<tr>
<td>S</td>
<td>1 in</td>
</tr>
</tbody>
</table>

Net weight

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>13 lbs</td>
</tr>
<tr>
<td>Pump Unit</td>
<td>40 lbs</td>
</tr>
<tr>
<td>Motor</td>
<td>22 lbs</td>
</tr>
<tr>
<td>Pump End</td>
<td>18 lbs</td>
</tr>
</tbody>
</table>

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