Private Boat - Case Study

Case Study Information

<table>
<thead>
<tr>
<th>Customer</th>
<th>Private Boat</th>
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<tbody>
<tr>
<td>Location</td>
<td>Germany</td>
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<tr>
<td>Enquiry Received</td>
<td>4th September</td>
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<tr>
<td>Order Placed</td>
<td>10th September</td>
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<tr>
<td>Order Dispatched</td>
<td>16th October</td>
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Enquiry:

✓ We were contacted by an owner of a private boat who was installing a reverse osmosis system aboard their vessel. They required a high pressure pump for the system to convert sea water into fresh water. The pump was needed to transfer sea water at a duty of 8.8 L/min at 35 Bar.

Solution:

✓ Castle Pumps has a wealth of experience with reverse osmosis systems; we have access to a high quality brand of plunger pumps that are widely used for reverse osmosis systems. We selected a stainless steel plunger pump fitted to a 1.1Kw 6 pole motor to achieve the required duty of 8.8 L/min at 35 Bar.

Equipment Supplied:

1 x Plunger pump for Reverse Osmosis

Supply includes - 3CP1221 pump, motor, flexible coupling & bellhousing.
Motor 1.1 kW 6 Pole 400/2/50 IP55 TEFC
For use in an indoor safe area
Pump Duty 8.8 L/min
Liquid Sea Water
Temperature Ambient
Inlet c2 meters head is recommended
Drive 0.9 kW absorbed power at a pump speed of approximately 960 rpm