HS • HSZ • HSE - TRASH PUMPS

HS / HSZ / HSE Series TRASH PUMPS: Durable trash pumps in two sizes—a 1HP 3-inch discharge and a 1/2HP 2-inch discharge. Both designed to pump water containing sand, solids and debris with minimal wear and clogging. HS2.4S / 3.75S are manual trash pumps, and HSZ2.4S / 3.75S are automatic trash pumps with integrated float switches. HSE2.4S is a HS2.4S trash pump with Automatic Water Level Sensor.

HS • HSE • HSZ TRASH PUMP Features
• Built-in shaft mounted agitator suspends solids
• Urethane Semi Vortex Impeller for maximum durability and pump performance
• Dual Inside Mechanical Seal With SiC faces provides longest operational life
• Oil Lifter provides lubrication of the seal faces (Patented)
• V-Ring Seal design protects mechanical seal from abrasive particles

Technical Features of Automatic (E) Water Level Sensor*
* not for use in distilled or deionized water
• Sensitive electrodes detect water to start pump operation even when foreign materials are present
• Internal 60-second timer eliminates frequent on/off operation in rough water to extend motor life
• Automatic water level sensor completely molded in resin and covered by rubber case for protection against rough handling.
• Jobsite tested for more than 30,000 on-off cycles without failure or damage

Optional Accessories - See page 28-31
• Vertical discharge coupling
• 2-inch NPT coupling available for HS(Z)3.75S

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**Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.**

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<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Output (HP)</th>
<th>Phase</th>
<th>Discharge Bore (inch)</th>
<th>Cable Length (ft)</th>
<th>Diameter (inch)</th>
<th>Height (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Pump Starting Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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<tbody>
<tr>
<td>HS2.4S</td>
<td>1/2 Single</td>
<td>2</td>
<td>10</td>
<td>1/16</td>
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<td>15/16</td>
<td>20</td>
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<td>HS3.75S</td>
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<td>15 5/16</td>
<td>3 1/2</td>
<td>30</td>
<td>20</td>
<td>17 1/2</td>
<td>3 1/2</td>
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<th>Pump Starting Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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<tbody>
<tr>
<td>HSZ2.4S</td>
<td>1/2 Single</td>
<td>2</td>
<td>13 1/2</td>
<td>15 1/8</td>
<td>17 1/2</td>
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<td>20</td>
<td>17 1/2</td>
<td>3 1/2</td>
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<tr>
<td>HSZ3.75S</td>
<td>1 Single</td>
<td>2</td>
<td>13 1/2</td>
<td>15 1/8</td>
<td>17 1/2</td>
<td>50</td>
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<td>3 1/2</td>
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<th>Height (inch)</th>
<th>Pump Starting Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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<tbody>
<tr>
<td>HSE2.4S</td>
<td>1/2 Single</td>
<td>2</td>
<td>10 1/16</td>
<td>14 1/8</td>
<td>6 1/2</td>
<td>30</td>
<td>20</td>
<td>17 1/2</td>
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</tbody>
</table>

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*Minimum Required Space
**HSD - EXTREME DUTY TRASH PUMP**

EXTREME DUTY TRASH PUMP: Pumps water containing sand, solids and debris with minimal wear and clogging.

**HSD2.55S Trash Pump Features**
- Anti-wicking block prevents water incursion
- Oil Lifter extends seal life by ten times
- Dual Inside Mechanical Seal with silicon carbide faces provides longer operational life of any seal available
- V-Ring Seal design protects mechanical seal from abrasive particles
- Built-in larger shaft mounted agitator suspends solids & eliminates clogging
- High Chromium Iron impeller & agitator
- Ductile iron pump casing
- 3/4 HP motor; larger than HS2.4S
- Easy pump end disassembly

Optional Accessories - See page 28-31
- Float switch
- Straight discharge
- Discharge hoses
- Quick connect fittings

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

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<tr>
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<th>Diameter (inch)</th>
<th>Height (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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**NK - HEAVY DUTY HIGH HEAD PUMP**

Heavy duty, single phase high head pumps capable of handling abrasive materials with minimal wear.

**NK2-15 • NK4-22/3-22L Features**
- Terminal board for voltage reconnect allows for change from 110V to 220V (NK2-15 only)
- NK2-15 & NK4-22: Semi Vortex Impeller and Synthetic Rubber Wear Plates for maximum durability and maintaining pump performance
- NK3-22L: Semi-Open Impeller
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patent)
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 28-31
- TS-303 & TS-304 Float Switch for automatic operation
- Sand kit
- 2” NPT coupling
- Control panel
- Discharge hoses
- Quick connect fittings

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

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<th>Diameter (inch)</th>
<th>Height (inch)</th>
<th>Continuous Running Water Level (inch)</th>
<th>Shipping Weight (lbs.)</th>
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<td>32</td>
<td>9 1/4</td>
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**Graphs**

- HSD2.55S performance graph
- NK2-15 performance graph
- NK2-15 graph in relation to capacity and total head