TWIN IMPeller "FIREFIGHTER"
Model Numbers: 5290BE, 5290HE, 5213BE & 5213HE

PRODUCT DESCRIPTION
Rugged, economical, twin impeller, self priming pump. These units are driven by either a 9 or 13hp Briggs & Stratton "Vanguard" engine or a 9 or 13hp Honda GX/E engine, fitted with an electric start.

APPLICATIONS
• Firefighting
• Tanker to tanker water transfer
• High head general water transfer
• Sheep jetting
• Irrigation
• Boom spraying
• Travelling irrigators

OPERATING LIMITS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flows to</td>
<td>680lpm</td>
</tr>
<tr>
<td>Maximum total head</td>
<td>120m</td>
</tr>
<tr>
<td>Maximum suction Lift</td>
<td>7m</td>
</tr>
<tr>
<td>Maximum water temperature</td>
<td>50°C</td>
</tr>
<tr>
<td>Minimum water temperature</td>
<td>1°C</td>
</tr>
<tr>
<td>Maximum casing pressure</td>
<td>1600kPa</td>
</tr>
<tr>
<td>Minimum suction pipe size</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Suction pipe strainer</td>
<td>Required</td>
</tr>
<tr>
<td>Inlet size</td>
<td>2&quot; BSP(M)*</td>
</tr>
<tr>
<td>Outlet sizes</td>
<td>1 x 2&quot; BSP(M)*</td>
</tr>
<tr>
<td></td>
<td>2 x 1&quot; BSP(M)*</td>
</tr>
<tr>
<td>Priming port</td>
<td>1 x 1 1/2&quot; BSP(M)*</td>
</tr>
</tbody>
</table>

* NPT thread available on request.
* 1x1 1/2" & 2x1" NPT outlet tee available on request.

FEATURES & BENEFITS

- Heavy duty wide vane impeller for longer life, improved performance and easier cleaning in the case of blockage.
- Twin impeller design provides the versatility of high flow rates with extra strong pressure.
- Thrust balanced impeller design to extend engine life.
- Pump casing, diffusers and impellers manufactured from quality corrosion resistant marine grade aluminium for long life.
- NEW 3 way discharge port for easy installation with a choice of plumbing sizes. The NEW 3 way discharge is easily adapted to the old 3 way outlets.
- Polyester coated pump casing, exterior and interior, for added corrosion resistance.
- Patented floating impeller neckrings front and back. The front neckring helps improve pumping efficiency, the back neckring helps extend seal life and dramatically reduce engine wear.
- Self priming from up to 6m for more versatile installation options.
- Huge 1 1/2" priming port for extra quick filling.
- Large drain port with bayonet fit plugs. Plugs have safety retention system.
- Low-oil protection on all models - engines won’t start or run if oil level is inadequate, thus protecting your engine.
- All engines feature cast iron cylinder bore for long life.
- Electric starter (battery and leads required) and recoil starter fitted, ensures a choice of starting methods, even if the battery is flat or removed.
- Viton seal and oring kit available for herbicide/insecticide spraying.
**TECHNICAL SPECIFICATIONS**

### MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction cover</td>
<td>Marine grade aluminium (AS605)</td>
</tr>
<tr>
<td>Diffuser</td>
<td>Marine grade aluminium (AS605)</td>
</tr>
<tr>
<td>Impeller</td>
<td>Marine grade aluminium (AS605)</td>
</tr>
<tr>
<td>Casing / yoke</td>
<td>Marine grade aluminium (AS605)</td>
</tr>
<tr>
<td>Mechanical seal</td>
<td>Carbon / ceramic</td>
</tr>
<tr>
<td>3 way discharge</td>
<td>Marine grade aluminium (AS605)</td>
</tr>
<tr>
<td>Casing bolts</td>
<td>Zinc plated steel</td>
</tr>
<tr>
<td>Yoke bolts</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Flap valve / seal ring</td>
<td>Zinc body, Hytrel seal</td>
</tr>
<tr>
<td>Neck ring, priming &amp;</td>
<td>Glass filled Nylon</td>
</tr>
<tr>
<td>drain plug</td>
<td></td>
</tr>
<tr>
<td>Casing, priming &amp; drain plug ring</td>
<td>Hytrel</td>
</tr>
<tr>
<td>Discharge gasket</td>
<td></td>
</tr>
<tr>
<td>Paint finish</td>
<td>Baked polyester powder coat</td>
</tr>
</tbody>
</table>

### ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Fuel Tank (litres)</th>
<th>Max. rated hp @ 3600rpm</th>
<th>Displacement (cc)</th>
<th>Approx. fuel consumption @ full load @ 3600rpm</th>
<th>Running time per tank @ full load @ 3600rpm</th>
<th>Oil Capacity (litres)</th>
<th>Spark arrestor</th>
<th>Dry Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5290BE</td>
<td>6.0</td>
<td>9.0</td>
<td>296</td>
<td>3.16</td>
<td>1.9</td>
<td>1.4</td>
<td>Yes</td>
<td>36.8</td>
</tr>
<tr>
<td>5290HE</td>
<td>6.0</td>
<td>9.0</td>
<td>270</td>
<td>3.05</td>
<td>1.9</td>
<td>1.1</td>
<td>No</td>
<td>30.9</td>
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<tr>
<td>5213BE</td>
<td>6.0</td>
<td>13.0</td>
<td>391</td>
<td>4.68</td>
<td>1.7</td>
<td>1.5</td>
<td>Yes</td>
<td>47.4</td>
</tr>
<tr>
<td>5213HE</td>
<td>6.0</td>
<td>13.0</td>
<td>389</td>
<td>3.25</td>
<td>2.0</td>
<td>1.3</td>
<td>No</td>
<td>42.7</td>
</tr>
</tbody>
</table>

### INSTALLATION & PRIMING

- Fit strainer to bottom of suction pipe; a foot valve is not required.
- To prime, fill pump body with water then allow pump to run until drawing water.

**HYDRAULIC PERFORMANCE**

**DIMENSIONS**

**D990/4K/0605/CPW**

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**Davesy Products Pty Ltd**

Member of the GUD Holdings Ltd Group

ABN 18 066 327 517

Head Office and Manufacturing Services,
6 Lakeview Drive,
Scoresby, Australia 3179
Ph: +61 3 9730 9222
Fax: +61 3 9735 4100
Website: www.davey.com.au
Customer Service Centre
Ph: 1300 367 866
Fax: 1300 369 199
E-mail: sales@davey.com.au

International
6 Lakeview Drive,
Scoresby, Australia 3179
Ph: +61 3 9730 9121
Fax: +61 3 9735 4248
E-mail: export@davey.com.au

Germany
Kanstrasse 47,
04275 Leipzig
Ph: +49 341 301 0412
Fax: +49 341 301 0413
E-mail: akrenz@daveyeurope.com

New Zealand
2 Rothwell Avenue,
North Harbour, Auckland 1330
Ph: +64 9 914 3680
Fax: +64 9 914 3685
Website: www.daveynz.co.nz
E-mail: sales@daveynz.co.nz

USA
Davesy Pumps Inc.
1005 N. Commons Drive
Aurora, Illinois 60504
Ph: +1 630 898 6976
Fax: +1 630 851 7744
Website: www.daveynz.com
E-mail: sales@daveynz.com

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This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product installation and operating instructions and all applicable statutory requirements. Product specifications may change without notice.

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**WATER PRODUCTS**

DEPENDING ON DAVEY