**Blue-White Industries, Ltd.**

**CHEM-FEED® Diaphragm Metering Pumps**

**Engineering and Technical Data**

**C-600HV**

**Fixed Speed**

**Mechanical Cam Output Adjustment**

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**Features:**
- All ball bearing, permanently lubricated gear motor for smooth, quiet, powerful operation.
- Solid, clear acrylic pump head with large high-output diaphragm.
- EP diaphragm.
- Outputs to 791 GPD.
- Output pressures to 20 PSI.
- Stroke adjustment from 4-100% permits accurate small injections at a high rate per minute. 27:1 turndown
- Durable metal epoxy coated construction.
- PVC suction strainer with removable polypropylene filter screen.
- Includes 1/2” ID clear PVC suction and discharge tubing, PVC Injection fitting and all mounting hardware.

**Specifications:**

- **Max. working pressure:** ........20 psig (1.4 bar)
- **Max. fluid temperature:** ..........130° F (54° C)
- **Max. ambient temperature:** ......-10° to 110° F/-10° to 43° C
- **Maximum viscosity:** ..............1,000 Centipoise
- **Maximum suction lift:** ............10 ft. Water 0 psig
- **Output adjustment range:** ......4-100% stroke length
- **Duty cycle:** ..................Continuous
- **Enclosure:** ..................NEMA type 1, (IP20)

**Materials of Construction:**

- **Pump Head:** ..................Acrylic (optional Teflon)
- **Pump Head Inlet/outlet Valves:**
  - Tube adapters: ..................PVC
  - Valve Poppit: ..................EP (optional Viton)
  - Adapter O-ring: .................EP (optional Viton)
  - Poppit spring: ..................Hastelloy C-276

- **Suction Tubing:** ...............Clear PVC
- **Discharge Tubing:** ...............Clear PVC
- **Suction Strainer:** ................
  - **Body & Tubing adapter:** ........PVC
  - **Strainer:** ..................Polypropylene
- **Injection Fitting:** ...............PVC

**Voltage (amp draw):**
- 115VAC/60Hz, 1ph (.74 amp max)
- 230VAC/60Hz, 1ph (.36 amp max)
- 220VAC/50Hz, 1ph (.31 amp max)
- 24VAC/60Hz, 1ph (3.40 amp max)
- 12VDC (3.00 amp max)
- 24VDC (1.50 amp max)

**Power Connection:** ..........Junction box for field wiring
**Approximate shipping wt:** .....8 lb. (3.6 kg)
### Dimensions:

- **DC Powered Models**: 7-7/32" (183mm)
- **AC Powered Models**: 6-3/4" (171.5mm)
- **7" (177.8 mm)**
- **6-1/8" (155.5 mm)**

### Model Number Matrix:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Maximum Motor RPM</th>
<th>Pump Head / Wet Parts</th>
<th>Power Supply Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-6</td>
<td>60 = 60 RPM</td>
<td>P = Heavy duty cartridge style polypropylene head</td>
<td>115VAC = 115V/60Hz</td>
</tr>
<tr>
<td></td>
<td>125 = 125 RPM</td>
<td>HV = High volume output acrylic head</td>
<td>220VAC = 220V/50Hz (20% less output)</td>
</tr>
<tr>
<td></td>
<td>250 = 250 RPM</td>
<td></td>
<td>230VAC = 230V/60Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24VAC = 24V/60Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12VDC = 12V DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24VDC = 24V DC</td>
</tr>
</tbody>
</table>

### Flow Rate and Pressure Capacities:

#### AC Powered Models:

<table>
<thead>
<tr>
<th>Max Output at 0 PSI</th>
<th>Strokes</th>
<th>Max PSI</th>
<th>115V/60Hz Model Number</th>
<th>230V/60Hz Model Number</th>
<th>220V/50Hz* Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPD</td>
<td>GPH</td>
<td>LPH</td>
<td>OZ/Min</td>
<td>Model Number</td>
<td>Model Number</td>
</tr>
<tr>
<td>189</td>
<td>7.8</td>
<td>29.5</td>
<td>16.8</td>
<td>C-660HV-115VAC</td>
<td>C-660HV-230VAC</td>
</tr>
<tr>
<td>398</td>
<td>16.5</td>
<td>32.4</td>
<td>35.3</td>
<td>C-6125HV-115VAC</td>
<td>C-6125HV-230VAC</td>
</tr>
<tr>
<td>791</td>
<td>32.9</td>
<td>124.5</td>
<td>70.3</td>
<td>C-6250HV-115VAC</td>
<td>C-6250HV-230VAC</td>
</tr>
</tbody>
</table>

*Note: 220V/50Hz models deliver approximately 20% less output.

#### DC Powered Models:

<table>
<thead>
<tr>
<th>Max Output at 0 PSI</th>
<th>Strokes</th>
<th>Max PSI</th>
<th>12V DC Model Number</th>
<th>24V DC Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPD</td>
<td>GPH</td>
<td>LPH</td>
<td>OZ/Min</td>
<td>Model Number</td>
</tr>
<tr>
<td>268</td>
<td>11.2</td>
<td>42.4</td>
<td>23.8</td>
<td>C-660HV-12VDC</td>
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<tr>
<td>568</td>
<td>23.7</td>
<td>89.7</td>
<td>50.5</td>
<td>C-6125HV-12VDC</td>
</tr>
<tr>
<td>1129</td>
<td>47.1</td>
<td>178.3</td>
<td>100.4</td>
<td>C-6250HV-12VDC</td>
</tr>
</tbody>
</table>

### Maximum Output vs. Pressure Curve

[Graph showing maximum output vs. pressure curve]

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