A typical picture of the pump is shown. Please contact Cornell Pump Company for further details. All information is approximate and for general guidance only.

**OPERATING LEVELS**

<table>
<thead>
<tr>
<th>OPERATING LEVEL</th>
<th>MIN FLOW</th>
<th>MAX FLOW</th>
<th>DISCHARGE SIZE</th>
<th>SUCTION SIZE</th>
<th>SOLIDS HANDLING</th>
<th>MAX SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN FLOW</td>
<td>15 GPM</td>
<td></td>
<td>1.5&quot;</td>
<td>4&quot;</td>
<td>.43&quot;</td>
<td>1800 RPM</td>
</tr>
<tr>
<td>MAX FLOW</td>
<td>140 GPM</td>
<td></td>
<td>31.8 m³/h</td>
<td>101.6 mm</td>
<td>10.9 mm</td>
<td>1800 RPM</td>
</tr>
</tbody>
</table>

**PARTS**

<table>
<thead>
<tr>
<th>PARTS</th>
<th>STANDARD MATERIAL (ALL IRON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPELLER</td>
<td>CAST IRON</td>
</tr>
<tr>
<td>VOLUTE</td>
<td>DUCTILE IRON</td>
</tr>
<tr>
<td>BACKPLATE</td>
<td>DUCTILE IRON</td>
</tr>
<tr>
<td>SHAFT</td>
<td>1045 STEEL</td>
</tr>
<tr>
<td>SEAL</td>
<td>BRONZE VS. CAST IRON (NI RESIST)</td>
</tr>
<tr>
<td>VALVE</td>
<td>FORGED STEEL</td>
</tr>
<tr>
<td>O-RINGS</td>
<td>NEOPRENE</td>
</tr>
<tr>
<td>MOTOR</td>
<td>REFRIGERANT-DUTY TEF</td>
</tr>
</tbody>
</table>

The 1.5CBH pump is designed with Cornell’s renowned quality and durability. It features a tangential volute with a 1.5" discharge, 4" suction, enclosed impeller, and 150lb ANSI flanges. A double mechanical seal is standard.

- Excellent NPSHr
- Three-year warranty
- Double mechanical sealing system

- Refrigerant Emission-Free™ sealing technology
- 1800/1500 RPM for reduced wear
### Data Sheet: 1.5CBH

**Speed** | 1760 | **Impeller Dia.** | VARIOUS | **Style** | ENCLOSED | **Solids Dia.** | .43" | **N_S** | 371 | **Suction** | 4" | **Discharge** | 1.5" | **SG** | 0.7

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**Capacity**

- **Cubic Meters Per Hour**
  - 100
  - 80
  - 60
  - 40
  - 20

- **U.S. Gallons Per Minute**
  - 40
  - 30
  - 20
  - 10

**Total Head**

- **KPa**
  - 200
  - 150
  - 100
  - 50

**PsI**

- 25
- 15
- 10

**NPSH Required**

- 1.5 FT (0.46 M)
- 2 FT (0.61 M)
- 3 FT (0.91 M)
- 4 FT (1.2 M)

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**Diagrams**:

- **Single Volute**
- **Mounting Config.: CC, F**

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**Formulas**:

- HP x .746 = KW
- GPM x 3.785 = Liters/Minute
- GPM x .227 = Cubic Meters/Hour
- Inches x 25.4 = Millimeters
- Feet x .305 = Meters
- (KPa) 2KN/M

---

**Notes**:

- Shaded area indicates a combination of speeds, impeller diameters, styles, and solids diameters within the specified N_S range.
- Other than 0.70 specific gravity: Adjustments necessary if psi and horsepower, specific gravity 0.7.

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**Additional Information**:

- **Style**: ENCLOSED
- **Impeller Dia.**: VARIOUS
- **Impeller Style**: 1.5CBH - 1800 RPM - 0.7 SG
- **Impeller Material**: Stainless Steel
- **Discharge**: 1.5"
- **Suction**: 4"
- **SG**: 0.7
- **HP**: 1.5
- **Flow Rate**: 10080 USGPM
- **Capacity**: 6040 USGPM
- **Total Head**: 200 KPa
- **NPSH Required**: 1.5 FT

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**Contact Information**:

- Cornell Pump Company
- Portland, Oregon
- 1.5CBH - 1800 RPM - 0.7 SG