The 4514T pump is designed with Cornell’s renowned quality and durability. It features a 4” discharge, 5” suction, and enclosed impeller. Cornell’s patented Cycloseal® design is standard, with a Type 1 or 2 single mechanical seal with Buna-N elastomers, stainless steel hardware and tungsten carbide vs. silicon carbide seal faces for abrasion resistance.

- High Efficiency
- Cycloseal Sealing System
- Low NPSHr
- Robust Construction

- Long Bearing life
- Can be fitted with cutters without dimension changes
- Two year warranty

### AVAILABLE MOUNTING CONFIGURATIONS
- 4514T-RP-F REDI-PRIME FRAME MOUNT
- 4514T-F FRAME MOUNT
- 4514T-RP-EM REDI-PRIME ENGINE MOUNT
- 4514T-EM ENGINE MOUNT
- 4514T-VF VERTICAL FRAME MOUNT
- 4514T-VC VERTICAL COUPLED

### OPERATING LEVELS

<table>
<thead>
<tr>
<th>Parameter</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>
<th>SHUT-OFF HEAD</th>
<th>BEP HEAD</th>
<th>BEP FLOW</th>
<th>BEP PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPM</td>
<td>450</td>
<td>2010</td>
<td>4&quot;</td>
<td>5&quot;</td>
<td>3&quot;</td>
<td>2300 RPM</td>
<td>395'</td>
<td>260'</td>
<td>1650</td>
<td>74%</td>
</tr>
<tr>
<td>m³/h</td>
<td>102.2</td>
<td>456.5</td>
<td>101.6 mm</td>
<td>127 mm</td>
<td>7.6 mm</td>
<td>2300 RPM</td>
<td>120.4 m</td>
<td>79.2 m</td>
<td>374.8</td>
<td>74%</td>
</tr>
</tbody>
</table>

### PARTS

<table>
<thead>
<tr>
<th>PARTS</th>
<th>STANDARD MATERIAL (ALL IRON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEAR RING</td>
<td>CAST IRON ASTM A48</td>
</tr>
<tr>
<td>IMPELLER</td>
<td>CAST IRON ASTM A48</td>
</tr>
<tr>
<td>VOLUTE</td>
<td>CAST IRON ASTM A48</td>
</tr>
<tr>
<td>SHAFT</td>
<td>SAE 1144 “STRESSPROOF”</td>
</tr>
<tr>
<td>SHAFT SLEEVE</td>
<td>416 STAINLESS STEEL</td>
</tr>
<tr>
<td>SUCTION COVER</td>
<td>CAST IRON ASTM A48</td>
</tr>
<tr>
<td>MECHANICAL SEAL</td>
<td>T-2, BUNA, TUNGSTEN/SILICON CARBIDE/STAINLESS</td>
</tr>
<tr>
<td>BEARING FRAME</td>
<td>CAST IRON ASTM A48</td>
</tr>
<tr>
<td>BACKPLATE</td>
<td>CAST IRON ASTM A48</td>
</tr>
</tbody>
</table>
4514T-F

**DATA SHEET**

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**Cornell Pump Company**

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### 4514T-VARIOUS RPM

- **HP**: 200, 175, 75, 60, 50, 150, 125, 100
- **RPM**: 1500, 1800, 2100, 2300
- **NPSH REQUIRED**: 8 FT (2.4 M), 10 FT (3.0 M), 15 FT (4.6 M), 20 FT (6.1 M)
- **Efficient by Design**

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### PUMP DIMENSIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FRAME</th>
<th>DISCH. INCR.</th>
<th>DISCH. SUCT.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>DD</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>L</th>
<th>P</th>
<th>U</th>
<th>V</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>KEYWAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4514T</td>
<td>F18</td>
<td>4</td>
<td>5</td>
<td>45°</td>
<td>12</td>
<td>12.88</td>
<td>27.5</td>
<td>10.5</td>
<td>11.31</td>
<td>5.12</td>
<td>10.38</td>
<td>0.81</td>
<td>9.12</td>
<td>0.88</td>
<td>2.5</td>
<td>4.5</td>
<td>11</td>
<td>4.75</td>
<td>9.25</td>
</tr>
</tbody>
</table>

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### NOTES:
- Discharge positions are viewed from the drive end.
- Standard increments of discharge position are shown in the chart below (DISCH INCR). Consult factory for other discharge positions.
- 1. "V" Dimension is maximum useable shaft.
- 2. Frame mounting foot thickness is .75".
- 3. Flange connection dimension can vary ± .12 inch.
- 4. Do not use for construction unless certified.

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**CONNECTION**

- **MODEL**: 4514T
- **FRAME**: F18
- **DISCH. INCR.**: 45°
- **DISCH. SUCT.**: 4
- **U.S. GALLONS PER MINUTE**: 0, 150, 200, 300, 400, 600
- **U.S. GALLONS PER HOUR**: 100, 200, 300, 400, 500, 600
- **CUBIC METERS PER HOUR**: 0, 70, 100, 200, 300, 400, 500, 600
- **TOTAL DYNAMIC HEAD**: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100, 150, 200, 300, 400, 500, 600
- **CAPACITY**: 0, 150, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100

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**DS119a-1703-GE**

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