CL Liquid Ring
Vacuum Pumps and Compressors
When to select a NASH CL Pump

- when liquid may carry over
- when air carries solid contaminants
- when gas is corrosive
- when vapor is to be reclaimed
- when you want smooth operation
- when you need reliability

CL Pumps are single stage vacuum pumps ideal for demanding applications in extremely tough conditions. Heavy duty pumps, they are able to service a wide range of applications, which can include dewatering in the paper industry and vacuum filtering in mineral ore processing.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>Connections Inlet</th>
<th>Outlet</th>
<th>Dimensions in Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL 9000</td>
<td>35</td>
<td>12</td>
<td>94</td>
</tr>
<tr>
<td>CL 6000</td>
<td>12</td>
<td>25.4</td>
<td>89</td>
</tr>
<tr>
<td>CL 4000</td>
<td>25.4</td>
<td>8</td>
<td>76</td>
</tr>
<tr>
<td>CL 3000</td>
<td>8</td>
<td>5</td>
<td>68</td>
</tr>
<tr>
<td>CL 2000</td>
<td>6</td>
<td>5</td>
<td>60</td>
</tr>
<tr>
<td>CL 1000</td>
<td>5</td>
<td>4</td>
<td>48</td>
</tr>
<tr>
<td>CL 700</td>
<td>4</td>
<td>3</td>
<td>41</td>
</tr>
<tr>
<td>CL 400</td>
<td>3</td>
<td>2.5</td>
<td>36</td>
</tr>
<tr>
<td>CL 200</td>
<td>2.5</td>
<td>2</td>
<td>25</td>
</tr>
</tbody>
</table>
**Basic specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum range</td>
<td>0-27+ in Hg vac/ to 100 mbar abs.</td>
</tr>
<tr>
<td>Differential pressure capability</td>
<td>15 psi/ 1 bar</td>
</tr>
<tr>
<td>Compressor pressure</td>
<td>15 psig/ 2 bar abs.</td>
</tr>
<tr>
<td>Construction material</td>
<td>Cast iron, Stainless Steel</td>
</tr>
</tbody>
</table>

**Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>High efficiency design</td>
<td>Lower operating costs</td>
</tr>
<tr>
<td>Shrouded rotor design</td>
<td>Strength and durability</td>
</tr>
<tr>
<td>Internal Center Shroud</td>
<td>Can draw from two sources with one pump</td>
</tr>
<tr>
<td>Conical design</td>
<td>Better ability to handle water/particulate slugs</td>
</tr>
<tr>
<td>Lobe purges</td>
<td>Reduce erosion wear</td>
</tr>
<tr>
<td>Variable port design</td>
<td>High efficiency</td>
</tr>
<tr>
<td>100% performance tested</td>
<td>Trouble-free start-up and operation</td>
</tr>
<tr>
<td>Backed by 2 year warranty and over 100 years of vacuum and compressed gas experience</td>
<td>Peace of mind</td>
</tr>
</tbody>
</table>

**Ask your Nash representative about CL pump upgrades:**

**ECO-FLO water savings technology**

**CL to Vectra XL adapter kits**
Series CL 9000

Series CL 6000

Series CL 4000

Series CL 3000

[Graphs showing CFM at vacuum and horsepower for different models.]
A NASH liquid ring system:
- is more economical over its life cycle
- will last longer
- requires significantly less maintenance
- provides more uptime for your plant
- is safer. The isothermal compression allows it to:
  - run cooler
  - condense hydrocarbons for sale or reuse
  - eliminate auto-ignition concerns
  - keep the discharge gas cool
  - increase bearing life
  - reduce mechanical wear
- does not require many of the complicated instrumentation safeties and ancillary accessories that add complexity to hot-running compressors
Other NASH Products

TC/TCM
Integral 2 stage liquid ring pumps with improved performance at vacuum levels down to 0.8” HgA (27 mbar)
Designed to handle large amounts of liquid carryover without difficulty
Capacity of 100 to 2,240 CFM with vacuum to 0.8” HgA
Capacity of 170 to 3,740 m³/h with vacuum to 27 mbar abs

Steam Jet Ejectors
Sizes range from one-inch (25mm) to 78-inch (2 meters) inlets
Capacities range from 20 to 20,000 CFM
Capacities range from 34 to 34,000 m³/h
Multi-stage system pressures as low as 0.001 mm HgA

2BE3/P2620
Large liquid ring vacuum pumps with superior corrosion resistance
Top discharge capability which eliminates need for trench
Self-recirculating seal water, reducing need for external seal water source
Capacity of 4,000 to 23,000 CFM with vacuum to 24” HgV
Capacity of 6,800 to 39,000 m³/h with vacuum to 200 mbar abs

Vectra
Liquid ring vacuum pumps and compressors
Available in feature rich budget designs (SX, XL or GL)
Designed to handle high back pressure requirements
Capacity of 20 to 4,000 CFM with vacuum to 29+ HgV
Capacity of 34 to 6,796 m³/h with vacuum to 33 mbar abs

Service
We have the know-how, the expertise and the specialists. We provide professional service to make your pumps run for decades. Our service centers are located in:
- Australia
- Brazil
- China
- Germany
- Korea
- Netherlands
- Singapore
- South Africa
- Sweden
- UK
- USA

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