Vectra GL
Liquid Ring Vacuum Pumps and Compressors
**Industry Workhorses**

NASH liquid ring vacuum pumps produced by Gardner Denver Nash have been known for more than 100 years as tireless workhorses, designed to stand up to the rigorous, nonstop demands of the harshest industrial environments. Built better than industry standards, NASH pumps are known for their reliability.

Vectra GL vacuum pumps and compressors, created for a wide range of general industrial applications, combine the highest standard of this reliability with a new level of ingenuity. Gardner Denver Nash employs advanced design technologies to achieve optimum performance and unprecedented production efficiencies. As a result, Vectra GL pumps are economical and provide great value to our customers.

Designed from the ground up based on customer defined market requirements; and the input from R&D, manufacturing, marketing, and most importantly, process engineers, Vectra GL pumps are a revolutionary line of pumps tough enough to be branded NASH.

These pumps include technological advancements such as a patented cone design and rotor configuration.

**Vacuum technology for general process industry**

Vectra GL pumps are designed for general industry applications. They are available in ductile iron only. Key elements of the design are the improved cone angles, which decrease the size of the pump, and NASH patented Gas Scavenging Technology, which dramatically improves pump performance at high vacuum levels.

**Basic specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum range</td>
<td>0-29 in Hg vac/to 33 mbar abs.</td>
</tr>
<tr>
<td>Mechanical seals</td>
<td>Single</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>Hydrotest pressure</td>
<td>75 psig/ 6 bar abs. standard</td>
</tr>
<tr>
<td>Construction material</td>
<td>Ductile iron</td>
</tr>
</tbody>
</table>

**Features**

- Compact design
- Built-in mechanical seals
- Global product design
- Conical design
- One moving part
- Variable port design
- Lobe purges
- NASH patented Gas Scavenging
- Redesigned cone angle
- Optimum design using finite element analysis
- 100% performance tested
- Backed by 2 year warranty and over 100 years of vacuum and compressed gas experience

**Benefits**

- Less floor space required
- No shaft leakage
- Direct drive speeds for 60 Hz & 50 Hz motors
- Better ability to handle water/particulate slugs
- Long term reliability
- High efficiency
- Reduce erosion wear
- Increased performance at high vacuum levels
- Reduced pump length
- Improved efficiency, performance and value
- Trouble-free start-up and operation
- Peace of mind
World Class Design & Performance

Performance

Pump A B C D E Inlet Outlet

GL 35

GL 100

GL 80

GL 60

GL 45

GL 35

Dimensions

mm in blue

<table>
<thead>
<tr>
<th>Pump</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Inlet</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>GL 35</td>
<td>21</td>
<td>533</td>
<td>13.4</td>
<td>340</td>
<td>14</td>
<td>356</td>
<td>6</td>
</tr>
<tr>
<td>GL 45</td>
<td>24</td>
<td>610</td>
<td>13.4</td>
<td>340</td>
<td>14</td>
<td>356</td>
<td>6</td>
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<tr>
<td>GL 60</td>
<td>27</td>
<td>686</td>
<td>17</td>
<td>432</td>
<td>16</td>
<td>406</td>
<td>6.8</td>
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<tr>
<td>GL 80</td>
<td>31</td>
<td>787</td>
<td>17</td>
<td>432</td>
<td>16</td>
<td>406</td>
<td>6.8</td>
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<tr>
<td>GL 100</td>
<td>29</td>
<td>737</td>
<td>19</td>
<td>483</td>
<td>18.5</td>
<td>495</td>
<td>8</td>
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<tr>
<td>GL 130</td>
<td>33</td>
<td>838</td>
<td>19</td>
<td>483</td>
<td>18.5</td>
<td>495</td>
<td>8</td>
</tr>
</tbody>
</table>

All dimensions are approximate
Gardner Denver Nash offers vacuum pumps and compressors, engineered systems, project planning and service, all from one trusted source. With more than 100 years experience as NASH, we are the world's leading supplier of liquid ring vacuum products to meet your every need.

Other NASH Products

2BV
Compact liquid ring vacuum pumps built for serious cost savings
Use up to 50 percent less water than other liquid ring pumps
Monoblock and pedestal designs available
Capacity of 4 to 350 CFM with vacuum to 29+” HgV
Capacity of 7 to 595 m³/h with vacuum to 31 mbar abs.

GARO Compressors
Highly rugged and reliable compressors that can handle highly toxic, explosive and corrosive gases
Specifically developed for applications such as flare-gas, chlorine and Vinyl Chlorine Monomer (VCM) recovery
Capacity to 2,200 SCFM with pressure to 200PSIG
Capacity of 100 to 3,400 m³/h with pressures to 15 bar abs.
Single and two stage models available

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 29+” HgV
Capacity of 6,800 to 39,000 m³/h with vacuum to 31 mbar abs.

TC/TCM
Integral two 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 2,200 CFM with vacuum to 0.8” HgA
Capacity of 170 to 3,740 m³/h with vacuum to 27 mbar

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