DuraVane™ high vacuum rotary vane pumps are available in 6 models (RVH series) covering pumping speeds from 1.4 to 12 CFM and ultimate pressures down to 7.5 x 10⁻³ Torr. These units are specifically designed to provide reliability, higher ultimate vacuum, easy installation and operation, as well as low maintenance.

Pumps are suitable for a variety of applications such as freeze drying, laboratory vacuum, distillation, semiconductor industry, refrigeration, electronics, etc., where smaller pumps with higher ultimate vacuum are required.

**DESIGN FEATURES**

- Heavy-duty construction
- Compact design
- Multi-frequency motor
- Gas ballast standard
- Low noise level
- Low maintenance
- Air-cooled design
- Direct drive
- Simple to install

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Collaborative Engineering From Start-To-Finish

1. Identify Needs
2. Recognize Need
3. Define Requirements
4. Specify System
5. Design System
6. Check System
7. Verify System
8. Test System
9. Train Users
10. Field Demonstration

**HIGH VACUUM** rotary vane pumps

- Single and Two Stage Liquid Ring Vacuum Pumps
- Water Sealed Vacuum Pump Systems
- Lubricated and Dry Rotary Vane Vacuum Pumps
- Vacuum Pump Systems

**LARGE CAPACITY** Liquid Ring Vacuum Pumps

- Water Sealed Vacuum Pump Systems
- Lubricated and Dry Rotary Vane Vacuum Pumps
- Vacuum Pump Systems

**DuraVaneHV** high vacuum rotary vane pumps down to 7.5 x 10⁻³ Torr*

<table>
<thead>
<tr>
<th>System Model</th>
<th>Nominal Capacity (ACFM)</th>
<th>Motor Size (60Hz HP)</th>
<th>Max Vacuum Level (Torr)</th>
<th>Partial final pressure (McLeod)</th>
<th>Total final pressure with gas ballast (Torr)</th>
<th>Pump Speed (RPM)</th>
<th>Noise (at 3ft) (dBA)</th>
<th>Weight (Lbs)</th>
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<tr>
<td>RVR002M</td>
<td>2</td>
<td>0.25</td>
<td>7.5 x 10⁻²</td>
<td>3.8 x 10⁻¹</td>
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DuraVane® LUBRICATED rotary vane vacuum pumps

DuraVane® OIL-FREE (DRY) rotary vane vacuum pumps

DuraVane® rotary vane vacuum pump SYSTEMS

...Well-designed, reliable and economically priced

DuraVane® lubricated rotary vane vacuum pumps: Single-stage pumps with a balanced unilamine system, sealed in a variety of industries such as vacuum processing, charging, and testing paper converting and electronics printing boards, laboratories, and hospitals.

DuraVane® lubricated rotary vane vacuum pumps for saturated air (wet) service are specifically developed for high inlet water vapor content such as stone and glass testing.

DuraVane® OIL-FREE (DRY) rotary vane vacuum pumps:

• Compact design
• Low noise level
• Direct drive
• Simple to install

...Exclusive design: fewer vanes, longer vane life

DuraVane® OIL-FREE (DRY) rotary vane vacuum pumps: Fewer vanes than other oil-free rotary vacuum pumps! Fewer vanes mean a longer vane life! Fewer vanes, less vane replacement, and lower maintenance cost. Fewer vanes mean lower maintenance cost.

...Well-designed, reliable and economically priced

Rotary vane vacuum pump systems are available in multiple configurations, such as single-stage, beam-mounted or duplex mounted systems.

DESIGN rubber NFR 99 compliant medical packages for hospitals and laboratories as well as standard industrial packages in capacities ranging from 2.2–70 CFM per pump.

Silent design due to DEKKER’s noise reduction technology offer expertise based on years of experience in the vacuum industry, and are available to answer any questions you may have.

Call DEKKER: The Experts in Vacuum Solutions at 888-925-5444 for application expertise.

DEKKER supplies NFPA 99 compliant medical packages for hospitals and laboratories as well as standard industrial packages in capacities ranging from 2.2–70 CFM per pump.

All multi-pump systems are equipped with a microprocessor, eliminating vacuum switching.

Applications engineers at DEKKER House Technologies offer expertise based on years of experience in the vacuum industry, and are available to answer any questions you may have.

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Performance characteristics rotary vane vacuum pumps

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<th>RVL003H</th>
<th>RVL020H</th>
<th>RVL076H</th>
<th>RVL111H</th>
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<td>+/- 10%</td>
<td>+/- 10%</td>
<td>+/- 10%</td>
<td>+/- 10%</td>
</tr>
</tbody>
</table>

DuraVane oil-free (dry) rotary vane vacuum pumps: Oil-free, heavy-duty vacuum lubricated pump for vacuum applications in a variety of industries such as printing, metalworking, electronics, and defense. Not recommended for high ethylene oxide vapor content such as in stone and glass cutting.

**DESIGN FEATURES**

- High-duty construction
- Compact design, easy to install
- High-quality vacuum material provides long vapor life
- Gas boil-off valve is standard on most models
- Low noise level
- Low maintenance
- AAC-coated design is standard
- Internally rotated rotor check valves
- High efficiency multi-stage exhaust filter removes 99% of exhaust smoke
- Direct drive with flange-mounted motor
- Simple to install

**Well-designed, reliable and economically priced**

DuraVane lubricated rotary vane vacuum pumps: single-stage pumps with an integrated lubrication system, used in a variety of industries such as vacuum pumping. They can be used in applications requiring high-vacuum levels in high ethylene oxide vapor content such as in stone and glass cutting.

**DESIGN FEATURES**

- High-duty construction
- Compact design, easy to install
- High-quality vacuum material provides long vapor life
- Gas boil-off valve is standard on most models
- Low noise level
- Low maintenance
- AAC-coated design is standard
- Internally rotated rotor check valves
- High efficiency multi-stage exhaust filter removes 99% of exhaust smoke
- Direct drive with flange-mounted motor
- Simple to install

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LUBRICATED rotary vane vacuum pumps

...Well-designed, reliable and economically priced

DuraVane lubricated rotary vane vacuum pumps: Single-stage pumps with an integrated oil-recirculation system, used in a variety of industries such as vacuum pumping, inline steam-jacketed pressure vessels, printing, food, laboratories, and hospitals.

DuraVane lubricated rotary vane vacuum pumps for saturated air (wet) service are specifically developed for high inlet water vapor content such as stone and glass cutting.

Rotary vane vacuum pump systems are available in multiple configurations, such as tank-mounted, base-mounted or stack-mounted units. DEKKER supplies NFPA 99 compliant medical packages for hospitals and laboratories as well as standard industrial packages in capacities ranging from 2.2-70 CFM per pump. DEKKER maintains an extensive domestic and global network of authorized service centers.

DEKKER offers a complete range of accessories and carries a comprehensive inventory of pumps and parts. For emergency repairs, DEKKER takes pride in offering same-day shipping of most standard parts. DEKKER maintains an extensive domestic and global network of authorized service centers.

OIL-FREE (DRY) rotary vane vacuum pumps

...Exclusive design: fewer vanes, longer vane life

DuraVane (100%) dry rotary vane vacuum pumps: Air-cooled, heavy duty, non-lubricated pump for vacuum applications in a variety of industries such as printing, food, pharmaceuticals, and medical equipment. Longer vane life and lower noise levels are achieved with this technology.

Rotary vane vacuum pump systems are available in multiple configurations, such as tank-mounted, base-mounted or stack-mounted units. DEKKER supplies NFPA 99 compliant medical packages for hospitals and laboratories as well as standard industrial packages in capacities ranging from 2.2-70 CFM per pump. DEKKER maintains an extensive domestic and global network of authorized service centers.

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Maintenance, service and repair so you keep operating at maximum efficiency.

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**TiTAN**
Single and Two Stage Liquid Ring Vacuum Pumps
4-5,800 CFM

**MAXIMA-C**
Large Capacity Cased Liquid Ring Vacuum Pumps
1-500 CFM

**DuraVane**
Lubricated and Dry Rotary Vacuum Pumps
15-5,000 CFM

**HullVAc**
Rotary Piston Vacuum Pumps
1-1,280 CFM

**ChemSeal**
Water Sealed Vacuum Pump Systems
15-5,000 CFM

**Aquascale**
Vacuum Pump Systems
15-5,000 CFM

**Large Capacity**

**Liquid Ring Vacuum Pumps**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (CFM)</th>
<th>Motor (HP)</th>
<th>Max Vacuum Level (Torr)</th>
<th>Partial final pressure (McLeod) (Torr)</th>
<th>Total final pressure with gas ballast (Torr)</th>
<th>Pump Speed (RPM)</th>
<th>Noise (at 3ft) (dBA)</th>
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* = Total final pressure unless otherwise specified.

Inlet pressure mm HgA (Torr)

<table>
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<tr>
<th>System</th>
<th>Capacity</th>
<th>Motor</th>
<th>Max Pressure (Torr)</th>
<th>Partial final pressure (McLeod) (Torr)</th>
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DuraVane™ high vacuum rotary vane pumps are available in 4 models: 4 HP series, covering pumping speeds from 1.4 – 4 CFM and pressures down to 7.5 x 10^-3 Torr; 6 HP series, covering pressures down to 3.8 x 10^-3 Torr. The pumps are specifically designed to provide reliable, higher ultimate vacuum, easy installation and operation as well as low maintenance.

These units are essentially designed to provide reliability higher ultimate vacuum, easy installation and operation as well as low maintenance.

Pumps are included for a variety of applications such as freeze drying, laboratory vacuum, distillation, TV tube and light bulb manufacturing, semiconductor industry, refrigeration, electronics, etc., where smaller pumps with higher ultimate vacuums are required.

**DESIGN FEATURES**

- Heavy-duty construction
- Compact design
- Multi-frequency motor
- Gas balast standard
- Low noise level
- Low maintenance
- Air-cooled design
- Direct drive
- Simple to install

**Performance curves**

DuraVane™ high vacuum rotary vane pumps can be used for a variety of applications, including high vacuum and ultra-high vacuum. The pumps are designed to provide reliable, higher ultimate vacuum, easy installation and operation as well as low maintenance.

**System Model**

- **DuraVaneHV** high vacuum rotary vane pumps down to 7.5 x 10^-3 Torr
- **RVH** series, covering speeds from 1.4 – 6 CFM and pressures down to 7.5 x 10^-3 Torr

**System Model**

- **RVR** series, covering speeds from 2 – 12 CFM and ultimate blank-off pressure down to 10^-1 Torr

**System Model**

- **RVH** series, covering speeds from 2 – 12 CFM and ultimate blank-off pressure down to 3.8 x 10^-3 Torr

**System Model**

- **DuraVaneHV** high vacuum rotary vane pumps down to 3.8 x 10^-3 Torr

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