2 STAGE OIL-SEALED ROTARY VANE VACUUM PUMPS

GVD 3-5

FEATURES AND BENEFITS

- 48 dB(A) and intrusive frequencies minimized.
- Dual mode. Suitable for high throughput and high vacuum applications.
- Easy-to-use gas ballast.
- Fast-acting inlet valve for system protection.
- High torque, dual voltage/dual frequency motor, electronic start relay.
- Efficient high pressure lubrication.
- Oil-tight with printed gaskets, effective shaft seals.
- Clamped-in sight glass.
- Oil box well contains filling spills.
- Hi-tech polymer blades, large diameter, easy-clean oil passages.
- Consistent, built-in quality, cast bar construction.

TECHNICAL SPECIFICATIONS GVD 3-5

<table>
<thead>
<tr>
<th></th>
<th>GVD 3</th>
<th>GVD 5</th>
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<tbody>
<tr>
<td></td>
<td>50 Hz</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Displacement</td>
<td>3.7 m³/h / 2.2 cfm</td>
<td>4.5 m³/h / 2.6 cfm</td>
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<tr>
<td>Speed (Pneurop 6602)</td>
<td>3.3 m³/h / 2 cfm</td>
<td>3.9 m³/h / 2.3 cfm</td>
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<tr>
<td>Ultimate vacuum (total pressure) without gas ballast</td>
<td>2.0 x 10⁻⁴ mbar / 15 x 10⁻³ Torr</td>
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<tr>
<td>Ultimate vacuum (total pressure) with gas ballast in position 2</td>
<td>1.2 x 10⁻¹ mbar / 9.1 x 10⁻³ Torr</td>
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<tr>
<td>Max. outlet pressure</td>
<td>0.2 bar / 3 psig gauge</td>
<td>0.2 bar / 3 psig gauge</td>
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<tr>
<td>Max. inlet pressure for water vapor</td>
<td>80 mbar / 60 Torr</td>
<td>50 mbar / 38 Torr</td>
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<tr>
<td>Max. water vapor pumping rate</td>
<td>60 g⁻¹</td>
<td>60 g⁻¹</td>
</tr>
<tr>
<td>Weight (without oil)</td>
<td>25 kg / 55 lb</td>
<td>25 kg / 55 lb</td>
</tr>
<tr>
<td>Motor power</td>
<td>450 W</td>
<td>550 W</td>
</tr>
<tr>
<td>Power connector 1-ph*</td>
<td>IEC EN60320 C13</td>
<td>IEC EN60320 C13</td>
</tr>
<tr>
<td>Maximum oil capacity</td>
<td>0.7 litre</td>
<td>0.7 litre</td>
</tr>
<tr>
<td>Minimum oil capacity</td>
<td>0.42 litre</td>
<td>0.42 litre</td>
</tr>
<tr>
<td>Noise level</td>
<td>48 dB(A) @ 50 Hz</td>
<td>48 dB(A) @ 50 Hz</td>
</tr>
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</table>

* 2m long 1-phase cable to be ordered separately. 3-phase motors connect directly to terminal box.
**APPLICATIONS**

- Analytical instruments
- Centrifuges, ultra-high speed
- Coating
- Degassing/curing - oil, epoxy resin
- Distillation/extraction/filtration
- Freeze drying
- Furnaces
- Gas bottle filling/emptying
- Gel drying
- Glove boxes, ovens
- Laboratory bench top vacuum
- Leak detectors, Helium
- Load locks and transfer chambers
- Refrigeration manufacture
- Research and development
- Rotary, centrifugal evaporators
- Scanning electron microscopes - SEM
- SEM/FIB (ion beam repair)
- Surface science instruments
- Turbomolecular backing pumps

**DIMENSIONS**

**PERFORMANCE CURVES**

1: Without gas ballast.
2: With gas ballast open in position 1.
3: With gas ballast open in position 2.

Available motor voltages:
- 1-ph 100-115 V 50/60 Hz
- 1-ph 200-230 V 50/60 Hz
- 3-ph 200-230 V, 380-415 V 50 Hz & 200-230/460 60 Hz

For ultimate vacuum figures, please consult the technical specification table on the front page.