



# 2 STAGE OIL-SEALED ROTARY VANE VACUUM PUMPS

Atlas Copco

GVD 8-12



## 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 8-12

|                                                                 | GVD 8                                                     |                                               | GVD 12                                                    |                                                |
|-----------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
|                                                                 | 50 Hz                                                     | 60 Hz                                         | 50 Hz                                                     | 60 Hz                                          |
| Displacement                                                    | 9.7 m <sup>3</sup> h <sup>-1</sup> / 5.7 cfm              | 11.7 m <sup>3</sup> h <sup>-1</sup> / 6.9 cfm | 14.2 m <sup>3</sup> h <sup>-1</sup> / 8.4 cfm             | 17.0 m <sup>3</sup> h <sup>-1</sup> / 10.0 cfm |
| Speed (Pneurop 6602)                                            | 8.5 m <sup>3</sup> h <sup>-1</sup> / 5.0 cfm              | 10.0 m <sup>3</sup> h <sup>-1</sup> / 5.9 cfm | 12.0 m <sup>3</sup> h <sup>-1</sup> / 7.1 cfm             | 14.2 m <sup>3</sup> h <sup>-1</sup> / 8.4 cfm  |
| Ultimate vacuum (total pressure) without gas ballast            | 2.0 x 10 <sup>-3</sup> mbar / 1.5 x 10 <sup>-3</sup> Torr |                                               | 2.0 x 10 <sup>-3</sup> mbar / 1.5 x 10 <sup>-3</sup> Torr |                                                |
| Ultimate vacuum (total pressure) with gas ballast in position 2 | 6.0 x 10 <sup>-2</sup> mbar / 4.6 x 10 <sup>-2</sup> Torr |                                               | 6.0 x 10 <sup>-2</sup> mbar / 4.6 x 10 <sup>-2</sup> Torr |                                                |
| Inlet connection                                                | DN25 ISO-KF                                               |                                               | DN25 ISO-KF                                               |                                                |
| Outlet connection                                               | DN25 ISO-KF                                               |                                               | DN25 ISO-KF                                               |                                                |
| Max. outlet pressure                                            | 0.2 bar / 3 psig gauge                                    |                                               | 0.2 bar / 3 psig gauge                                    |                                                |
| Max. inlet pressure for water vapor                             | 38 mbar / 28.5 Torr                                       |                                               | 32 mbar / 24 Torr                                         |                                                |
| Max. water vapor pumping rate                                   | 60 gh <sup>-1</sup>                                       |                                               | 60 gh <sup>-1</sup>                                       |                                                |
| Weight (without oil)                                            | 28 kg / 61.6 lb                                           |                                               | 29 kg / 63.8 lb                                           |                                                |
| Motor power                                                     | 450 W                                                     | 550 W                                         | 450 W                                                     | 550 W                                          |
| Power connector 1-ph*                                           | IEC EN60320 C13                                           |                                               | IEC EN60320 C13                                           |                                                |
| Maximum oil capacity                                            | 0.75 litre                                                |                                               | 1 litre                                                   |                                                |
| Minimum oil capacity                                            | 0.45 litre                                                |                                               | 0.65 litre                                                |                                                |
| Noise level                                                     | 48 dB(A) @ 50 Hz                                          |                                               | 48 dB(A) @ 50 Hz                                          |                                                |

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

