



# Atlas Copco GVD 8, GVD 12

## Technical Specifications

|   | 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.





# PROVAC

## SALES

PHONE: 831-462-8900

FAX: 831-462-3536

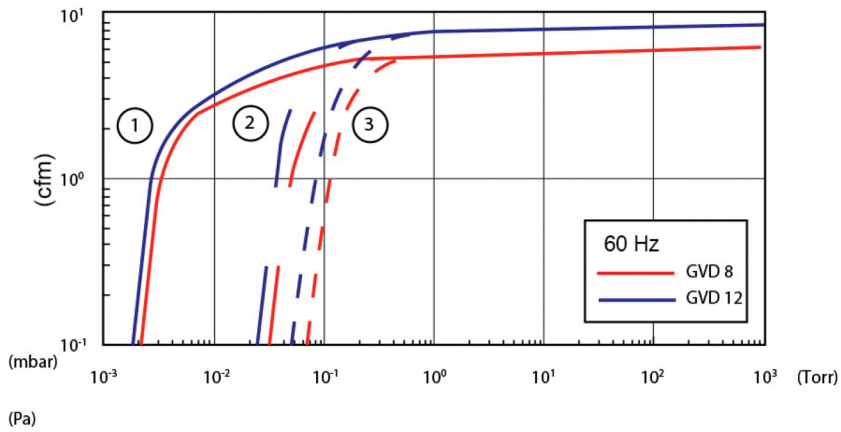
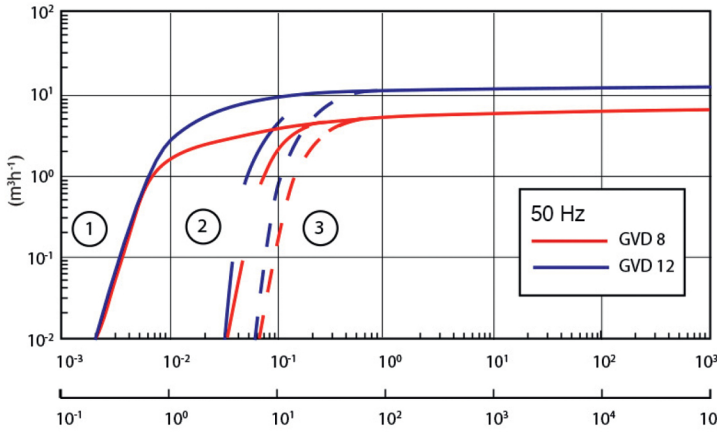
WWW.PROVAC.COM

# Atlas Copco GVD 8, GVD 12 Pumping Curves

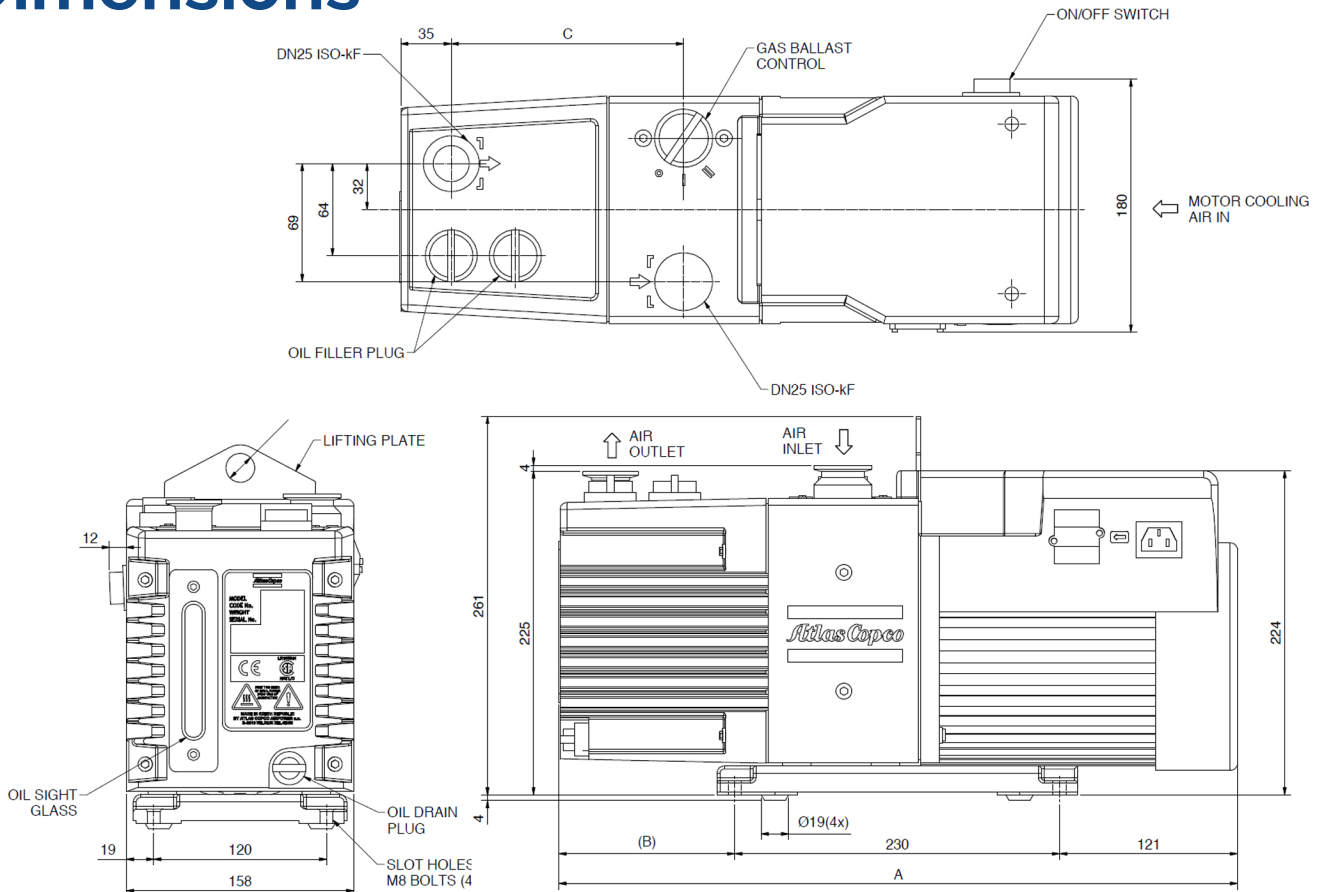
### 50Hz

1: Without gas ballast.  
2: With gas ballast open.

### 60Hz



## Dimensions





# PROVAC

## SALES

PHONE: 831-462-8900

FAX: 831-462-3536

WWW.PROVAC.COM

---

## Atlas Copco GVD 8, GVD 12

### Features & Benefits

- intrusive frequencies minimized
- dual mode suitable for high throughput & high vacuum applications
- easy to use gas ballast
- fast acting inlet valve for system protection
- high torque, dual voltage/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 blade, large diameter, easy-clean oil passages
- consistent, built-in quality, cast bar construction

### 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 • helium leak detectors • load locks & transfer chambers • refrigeration manufacture
- research & development • rotary, centrifugal evaporators • scanning electron microscopes - SEM • SEM/FIB (ion beam repair) • surface science instruments • turbo backing pumps