



# Atlas Copco GVD 175, GVD 275

## Technical Specifications

|  | GVD 175   |  | GVD 275   |  |
|--|---|--|---|--|
|  | 50 Hz   | 60 Hz  | 50 Hz   | 60 Hz  |
| Displacement   | 178 m <sup>3</sup> h <sup>-1</sup> / 105 cfm            | 214 m <sup>3</sup> h <sup>-1</sup> / 126 cfm | 292 m <sup>3</sup> h <sup>-1</sup> / 172 cfm            | 350 m <sup>3</sup> h <sup>-1</sup> / 206 cfm |
| Speed (Pneurop 6602)                                 | 160 m <sup>3</sup> h <sup>-1</sup> / 94 cfm             | 196 m <sup>3</sup> h <sup>-1</sup> / 115 cfm | 255 m <sup>3</sup> h <sup>-1</sup> / 150 cfm            | 306 m <sup>3</sup> h <sup>-1</sup> / 180 cfm |
| Ultimate vacuum (total pressure) without gas ballast | 1 x 10 <sup>-3</sup> mbar / 7.7 x 10 <sup>-4</sup> Torr |  | 1 x 10 <sup>-3</sup> mbar / 7.7 x 10 <sup>-4</sup> Torr |  |
| Ultimate vacuum (total pressure) with gas ballast    | 5 x 10 <sup>-3</sup> mbar / 3.8 x 10 <sup>-3</sup> Torr |  | 5 x 10 <sup>-3</sup> mbar / 3.8 x 10 <sup>-3</sup> Torr |  |
| Inlet connection suitable for                        | DN63 ISO-KF   |  | DN63 ISO-KF   |  |
| Outlet connection suitable for                       | DN40 ISO-KF   |  | DN40 ISO-KF   |  |
| Max. outlet pressure                                 | 0.5 bar / 7 psig gauge                                  |  | 0.5 bar / 7 psig gauge                                  |  |
| Max. inlet pressure for water vapor                  | 20 mbar / 15 Torr                                       |  | 12 mbar / 9 Torr  |  |
| Max. water vapor pumping rate                        | 0.3 kg h <sup>-1</sup> / 0.7 lb h <sup>-1</sup>         |  | 2.3 kg h <sup>-1</sup> / 5.1 lb h <sup>-1</sup>         |  |
| Weight (without oil)                                 | 230 kg / 508 lb   |  | 253 kg / 558 lb   |  |
| Motor protection rating                              | IP55  |  | IP55  |  |
| Motor power  | 5.5 kW / 7.5 hp   | 6.5 kW / 8.5 hp                              | 7.5 kW / 10 hp*   | 8.5 kW / 11 hp*                              |
| Maximum oil capacity                                 | 25 litre / 26 qt  |  | 28 litre / 29.5 qt                                      |  |
| Minimum oil capacity                                 | 16 litre / 17 qt  |  | 19 litre / 20 qt  |  |
| Noise level  | 75 dB (A)   |  | 75 dB (A)   |  |
| Water cooling requirement                            | 1.3 lmin <sup>-1</sup> @ maximum 30°C                   |  | 1.3 lmin <sup>-1</sup> @ maximum 30°C                   |  |

\* GVD 275 7.5 kW/9.2 kW at 50/60 Hz.  
All motors are 3-phase energy-efficient.  
IEC EN60034.





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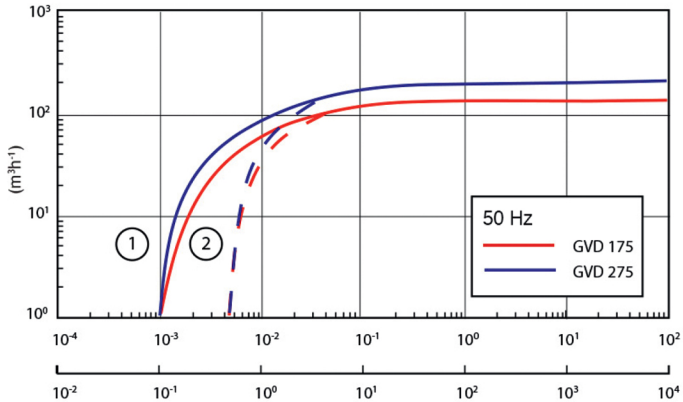
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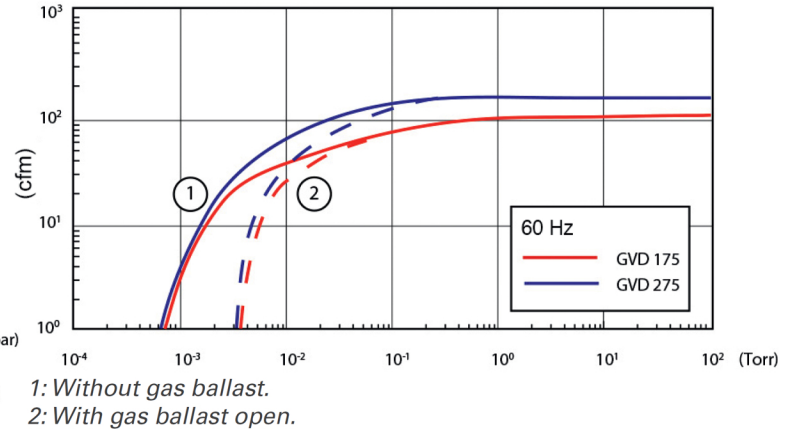
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# Atlas Copco GVD 175, GVD 275 Pumping Curves

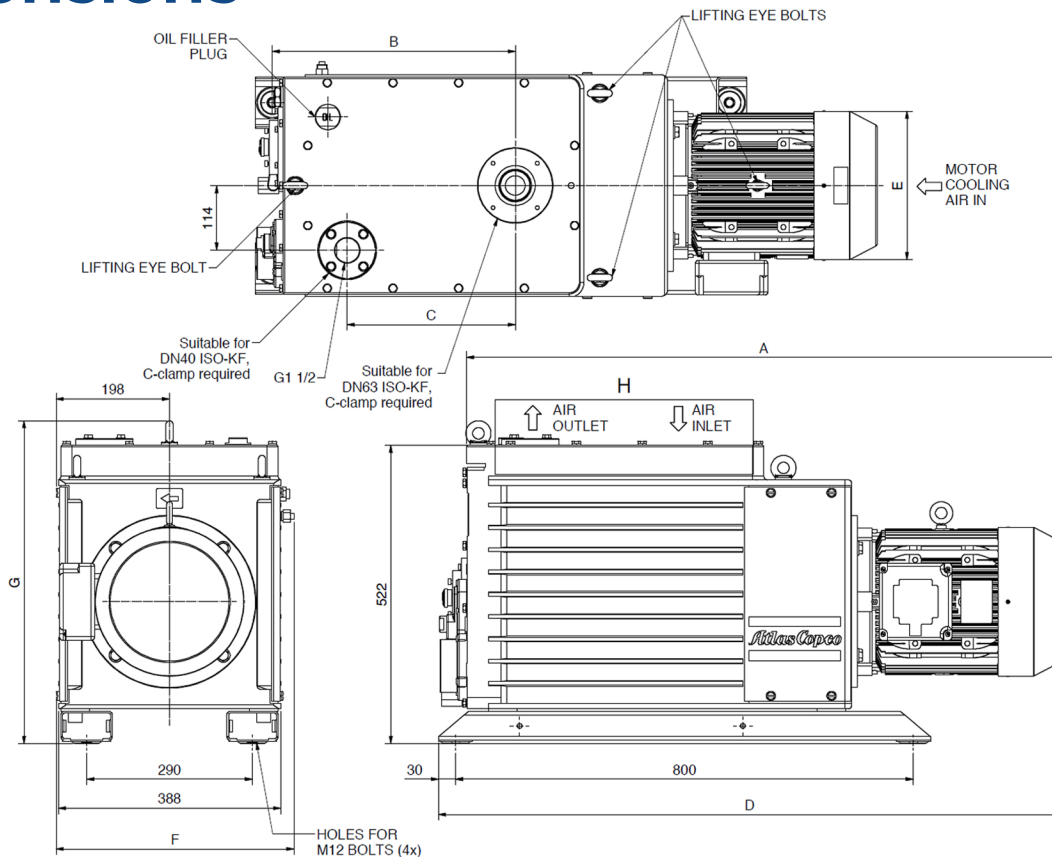
### 50Hz



### 60Hz



## Dimensions



| MODEL   | A    | B   | C   | D    | E   | F   | G   |
|---------|------|-----|-----|------|-----|-----|-----|
| GVD 175 | 941  | 329 | 196 | 994  | 256 | 410 | 563 |
| GVD 275 | 1130 | 425 | 294 | 1185 | 260 | 415 | 565 |



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# Atlas Copco GVD 175, GVD 275

## Features & Benefits

- spring loaded distributor valve provides oil & air suckback protection
- central inlet port to allow easy mounting of booster pump
- gas ballast control assists in handling high water vapor loads
- effective lubrication under high gas loads
- industrial roller bearings on drive shaft
- advanced pressurized oil circuit
- full height oil sight glass
- easy change oil filter
- easy to maintain

## Applications

- refrigeration/air conditioning system evacuation/drying/backfilling
- vacuum drying & distillation • backing pump for high vacuum applications • metallurgy • thin film coating • insulating oil treatment plant • freeze drying • transformer/cable drying & impregnation
- cryogenic vessel evacuation