

GVD 175-275



### FEATURES AND BENEFITS

- Advanced pressurized oil circuit to give effective lubrication even under high gas loads.
- When the pump is switched off, the spring loaded distributor valve provides oil and air suck-back protection.
- Gas ballast control to assist in handling high water vapor loads.
- Industrial roller bearings on drive shaft for ultimate reliability and long, trouble free life.
- Full height oil sight glass for easy checking of oil level and condition.

- Easy change oil filter, with oil filter condition gauge on larger models.
- Central inlet port to allow easy mounting of mechanical booster pump if required.
- Easy to maintain, with convenient service kits and international customer support.
- A wide range of accessories to match your application needs
- The pumps and accessories can be supplied either as individual components or as fully systemized, factorytested combinations.

#### **TECHNICAL SPECIFICATIONS GVD 175-275**

	GVD 175		GVD 275		
	50 Hz	60 Hz	50 Hz	60 Hz	
Displacement	178 m³h <sup>-1</sup> / 105 cfm	214 m³h-¹ / 126 cfm	292 m³h <sup>-1</sup> / 172 cfm	350 m³h <sup>-1</sup> / 206 cfm	
Speed (Pneurop 6602)	160 m³h-1 / 94 cfm	196 m³h-1 / 115 cfm	255 m³h-1 / 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> @ m	aximum 30°C	1.3 lmin <sup>-1</sup> @ maximum 30°C		



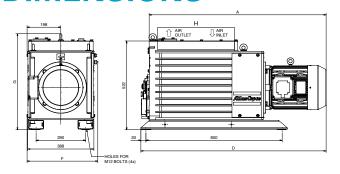


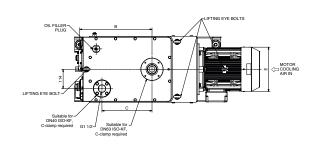
## **APPLICATIONS**

- Refrigeration and air conditioning system evacuation, drying, and backfilling
- Vacuum drying and distillation
- Backing pump for high vacuum applications
- Vacuum metallurgy processes

- Thin film coating technologies
- Freeze drying
- Transformer and cable drying and impregnation, insulating oil treatment plant
- Cryogenic vessel evacuation

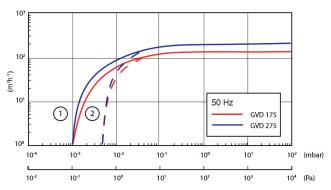
### **DIMENSIONS**

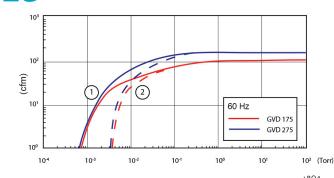




MODEL	А	В	С	D	E	F	G
GVD 175	941	329	196	994	256	410	563
GVD 275	1130	425	294	1185	260	415	565

# **PERFORMANCE CURVES**





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

- 400 V 50 Hz
- 460 V 60 Hz NEMA premium
- 200/380 Hz 50/60 Hz

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



