

Direct Drive Oil-Sealed Rotary Vacuum Pump (Super Type) GVD/GLS/GLD Series

Features

ULVAC KIKO's GLD Series are superior-type pumps featuring high performance, low vibration, low noise, and many excellent functions as described below.

Gas-ballasting to prevent vapor (i.e. water) from condensing in the pump oil.

A forced oil supply mechanism which helps maintain oil lubrication and pumping speeds over the entire pumping range from atmosphere to high vacuum.

An anti-suckback device which protects the vacuum chamber in the event of power failure.

The low temperature enables the pump to produce improved

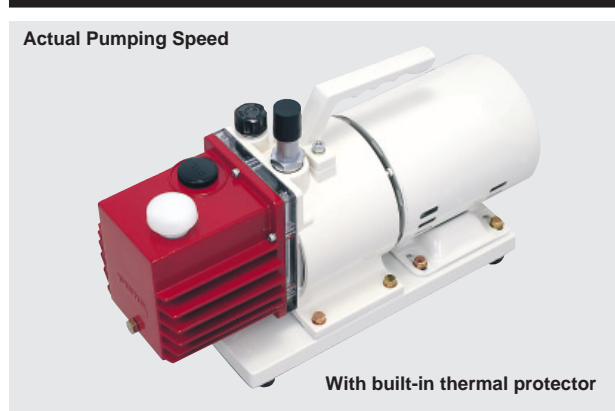
levels of vacuum. A forced oil filter can be easily connected to filtering contaminants from the oil and the oil condition can be checked using a large, easy-to-read level gauge.

Applications

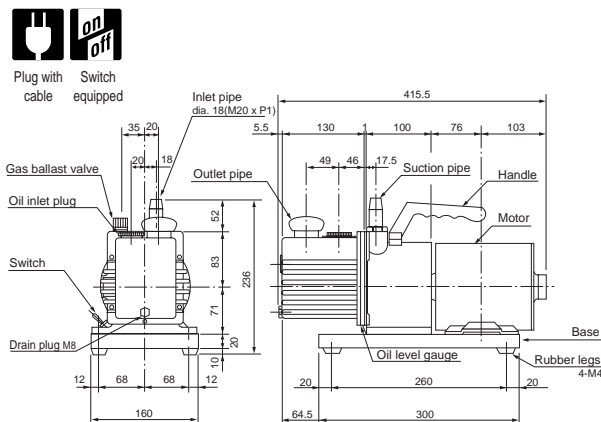
- Scientific and chemical experiments, analyzing appliances, laser-related facilities.
- High-vacuum pumping systems and backing systems for electron microscopes.
- Semiconductor manufacturing systems, sputter systems, vacuum evaporation systems.
- Vacuum drying systems, freeze drying systems.

Direct Drive Oil-Sealed Rotary Vacuum Pump (Super Type)

GVD-050A



External Dimension Diagram (unit: mm)

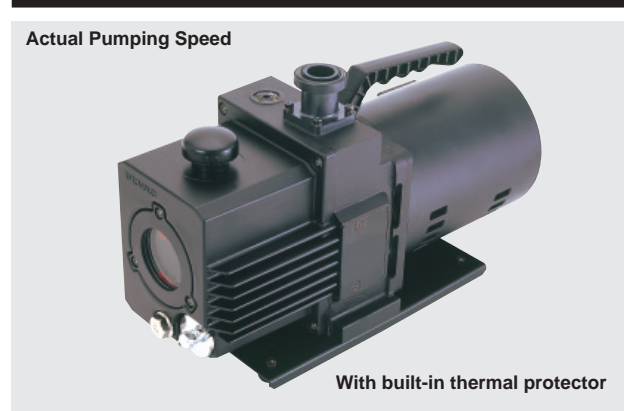


Specifications

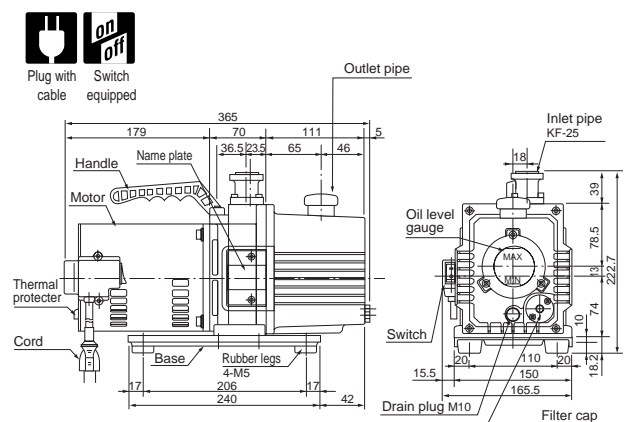
	Unit	50Hz	60Hz
Actual Pumping Speed	L/min.	50	60
Ultimate pressure	Pa	G.V. Closed 6.7×10^{-2} (6.7×10^{-1})	
		G.V. Open 6.7	
Motor		Single phase, 100V, 200W, 4 poles, split phase starting	
Full load current	A	5.6	4.8
Oil capacity	mL	430	
Recommended oil		SMR-100	
Weight	kg	13.7	
Inlet pipe dimensions	mm	O.D. 18 x I.D. 14	
Ambient operation temp. range	°C	7 ~ 40	
Overall dimensions	mm	160(W) x 415.5(L) x 236(H)	

Direct Drive Oil-Sealed Rotary Vacuum Pump (Super Type)

GLS-051



External Dimension Diagram (unit: mm)



Specifications

	Unit	50Hz	60Hz
Actual Pumping Speed	L/min.	50	60
Ultimate pressure	Pa	9.3	
Motor		Single phase, 100V(50/60Hz)/110V(60Hz), 200W, 4 poles, split phase starting	
Full load current	A	5.6	4.8(100V) 5.1(110V)
Oil capacity	mL	400 ~ 700	
Recommended oil		SMR-100	
Weight	kg	12.9	
Inlet pipe dimensions	mm	KF-25	
Ambient operation temp. range	°C	7 ~ 40	
Overall dimensions	mm	165.5(W) x 365(L) x 222.7(H)	

• GVD/GLS/GLD Series

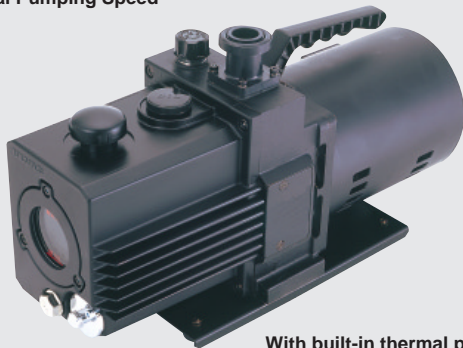
Model	Actual Pumping Speed (L/min)	Ultimate pressure (Pa)	Motor	Weight (kg)	Inlet pipe dimensions (O.D. x I.D.)	Overall dimensions W x L x H (mm)
* ○ ● GVD-050A	50/60 (50Hz/60Hz)	G.V. Closed 6.7×10^{-2} G.V. Open 6.7	Single phase, 100V, 200V, 4 poles, split phase starting	13.7	18.0 x 14.0 mm	160.0 x 415.5 x 236.0
* ○ ● GLS-051	50/60 (50Hz/60Hz)	9.3	Single phase, 100V(50/60Hz)/110V(60Hz), 200W, 4 poles, split phase starting	12.9	KF-25	165.5 x 365.0 x 222.7
* ○ ● GLD-051	50/60 (50Hz/60Hz)	G.V. Closed 6.7×10^{-2} G.V. Open 6.7	Single phase, 100V(50/60Hz)/110V(60Hz), 200W, 4 poles, split phase starting	13.9	KF-25	165.5 x 339.0 x 222.7

* : Thermal protector equipped. ○ : Back flow prevention mechanism equipped
 ● : Gas ballast valve equipped. * : CE applicable models available (Please consult us for price.)

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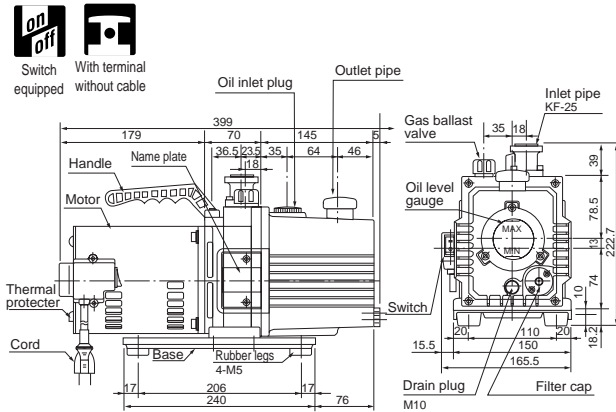
GLD-051

Actual Pumping Speed



With built-in thermal protector

External Dimension Diagram (unit: mm)



Specifications

Unit	50Hz	60Hz
Actual Pumping Speed	L/min. 50	60
Ultimate pressure	Pa	G.V. Closed 6.7×10^{-2} (6.7×10^{-1}) G.V. Open 6.7
Motor	Single phase, 100V(50/60Hz)/110V(60Hz), 200W, 4 poles, split phase starting	
Full load current	A	5.6 4.8(100V) 5.1(110V)
Oil capacity	mL	500 ~ 800
Recommended oil	SMR-100	
Weight	kg	13.9
Inlet pipe dimensions	KF-25	
Ambient operation temp. range	7 ~ 40 °C	
Overall dimensions	mm 165.5(W) x 399(L) x 222.7(H)	

Pumping Speed Curve

GLD Series

