

Oil-Sealed Rotary Vacuum Pump **GLD Series**

Features

GLD series features high performance, low vibration and noise and several functions such as gas ballast valve, oil-back-flow prevention mechanism, and large sized oil level gauge. This series equips multi-voltage motor and correspondent to international standard.

Applications

- Chemical, science experiment, Analyzer and Laser system.
- Backing pumps for the electronic microscope.
- Semiconductor equipments, sputtering equipment, vacuum evaporation equipment.
- Vacuum dryer, freeze dryer.



Specifications

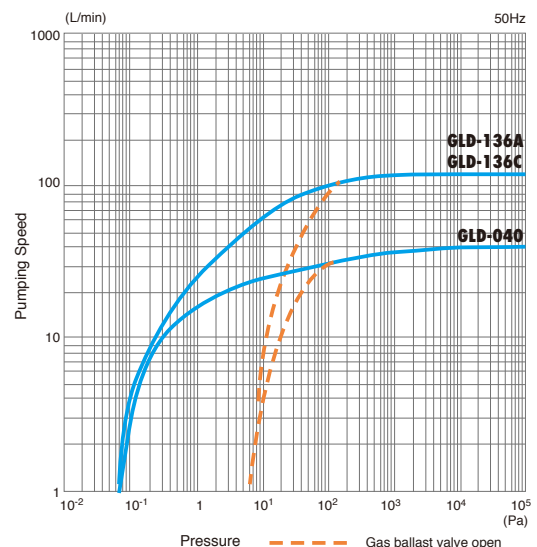
Model	Unit	GLD-040		GLD-136A		GLD-136C	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	40	48	135	162	135	162
	m ³ /h	2.40	2.88	8.10	9.72	8.10	9.72
	CFM	1.41	1.69	4.77	5.72	4.77	5.72
Ultimate pressure*	Pa	G.V. Closed : 0.67 G.V. Open : 6.7		G.V. Closed : 0.67 G.V. Open : 6.7		G.V. Closed : 0.67 G.V. Open : 6.7	
	Torr	G.V. Closed : 5.0 × 10 ⁻³ G.V. Open : 0.05		G.V. Closed : 5.0 × 10 ⁻³ G.V. Open : 0.05		G.V. Closed : 5.0 × 10 ⁻³ G.V. Open : 0.05	
	mbar	G.V. Closed : 6.7 × 10 ⁻³ G.V. Open : 0.07		G.V. Closed : 6.7 × 10 ⁻³ G.V. Open : 0.07		G.V. Closed : 6.7 × 10 ⁻³ G.V. Open : 0.07	
Motor		Single phase, 200W, 4P, Multiple-range motor Capacitor start & run, 100-120V/200-240V		Three phase, 400W, 4P, Multiple-range motor 200-240V/380-460V		Single phase, 400W, 4P, Multiple-range motor Capacitor start & run, 100-120V/200-240V	
Full load current	A	4.20 (100V), 4.40 (110V), 4.60 (115V), 5.05 (120V), 2.10 (200V), 2.20 (220V), 2.30 (230V), 2.60 (240V)	3.60 (100V), 3.40 (110V), 3.60 (120V), 1.80 (200V), 1.70 (220V), 1.70 (230V), 1.80 (240V)	2.10 (200V), 2.20 (220V), 2.30 (230V), 2.50 (240V), 1.30 (380V), 1.30 (400V), 1.40 (415V)	2.00 (200V), 1.90 (220V), 1.90 (230V), 2.00 (240V), 1.10 (380V), 1.10 (400V), 1.15 (440V), 1.20 (460V)	6.8 (100-120V), 3.5 (200-240V)	5.8 (100-120V), 2.9 (200-240V)
		Oil capacity	mL 550 - 800		1,000		1,000
Recommended oil		R-2		SMR-100		SMR-100	
Weight	kg	16.0		23.0		27.0	
Inlet port diameter	mm	KF-25		KF-25		KF-25	
Ambient temperature	°C	7 - 40		7 - 40		7 - 40	
	°F	44.6 - 104		44.6 - 104		44.6 - 104	
Overall dimensions	mm	150(W) × 427(L) × 228.5(H)		170(W) × 485.5(L) × 240(H)		170(W) × 487.5(L) × 249.5(H)	

*: Ultimate pressure is measured by Pirani gauge. (In case of macleod gauge, the rate is one digit smaller than this rate.)

Corresponding voltage and Certificate

Model	Voltage	Applicable Volt	CE Marked	TUV Marked	cTUVus Marked
GLD-040	Single phase, 100-120V	Standard	●	●	●
	Single phase, 200-240V	Standard	●	●	●
GLD-136A	Three phase, 200-240V	Standard	●	●	—
	Three phase, 380-460V	Standard	●	●	—
GLD-136C	Single phase, 100-120V	Standard	●	●	●
	Single phase, 200-240V	Standard	●	●	●

Pumping speed curves



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Applications

- Chemical science experiment, Analyzer and Laser system.
- Vacuum pumping system.
- Back pump for SEM.
- Semiconductor equipments, sputtering equipment, vacuum evaporation equipment.
- Vacuum dryer, freeze dryer.



Specifications

Model	Unit	GLD-201A		GLD-201B	
		50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	200	240	200	240
	m ³ /h	12.00	14.40	12.00	14.40
	CFM	7.06	8.47	7.06	8.47
Ultimate pressure*	Pa	G.V. Closed : 0.67 G.V. Open : 6.7		G.V. Closed : 0.67 G.V. Open : 6.7	
	Torr	G.V. Closed : 5.0 × 10 ⁻³ G.V. Open : 0.05		G.V. Closed : 5.0 × 10 ⁻³ G.V. Open : 0.05	
	mbar	G.V. Closed : 6.7 × 10 ⁻³ G.V. Open : 0.07		G.V. Closed : 6.7 × 10 ⁻³ G.V. Open : 0.07	
Motor		Three phase, 550W, 4P, Multiple-range motor 200–240V/380–460V		Single phase, 550W, 4P, Multiple-range motor Capacitor start & run, 100–120V/200–240V	
Full load current	A	3.00 (200V), 3.10 (220V)	2.70 (200V), 2.70 (220V)	8.2 (100-120V) 4.1 (200-240V)	7.9 (100-120V) 3.9 (200-240V)
		3.30 (230V), 3.60 (240V) 1.80 (380V), 1.90 (400V) 2.00 (415V)	2.70 (230V), 2.80 (240V) 1.50 (380V), 1.60 (400V) 1.70 (440V), 1.70 (460V)		
Oil capacity	mL	1,100			
Recommended oil		SMR-100			
Weight	kg	26.0		29.0	
Inlet port diameter	mm	KF-25		KF-25	
Ambient temperature	°C	7 – 40		7 – 40	
	°F	44.6 – 104		44.6 – 104	
Overall dimensions	mm	170(W) × 513.5(L) × 240(H)		170(W) × 515.5(L) × 249.5(H)	

* : Ultimate pressure is measured by Pirani gauge. (In case of macleod gauge, the rate is one digit smaller than this rate.)

Corresponding voltage and Certificate

Model	Voltage	Applicable Volt	CE Marked	TUV Marked	cTUVus Marked
GLD-201A	Three phase, 200–240V	Standard	●	●	—
	Three phase, 380–460V	Standard	●	●	—
GLD-201B	Single phase, 100–120V	Standard	●	●	●
	Single phase, 200–240V	Standard	●	●	●

Pumping speed curves

