

Oil-Sealed Rotary Vacuum Pumps

GLD Series

GLD-040 GLD-137AA GLD-137CC

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
- Vacuum pumping system
- Backing pumps for the electronic microscope
- Semiconductor equipment, sputtering equipment, vacuum evaporation equipment
- Vacuum dryer, freeze dryer



GLD-040



GLD-137AA



GLD-137CC

Specifications

Model	Unit	GLD-040		GLD-137AA		GLD-137CC	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	40	48	135	162	135	162
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	
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)	3.60 (100V), 3.40 (110V) 3.40 (115V), 3.60 (120V)	2.10 (200V), 2.20 (220V) 2.30 (230V), 2.50 (240V)	2.00 (200V), 1.90 (220V) 1.90 (230V), 2.00 (240V)	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		26.0		29.0	
Inlet port diameter	mm	KF-25		KF-25		KF-25	
Ambient temperature	°C	7 – 40		7 – 40		7 – 40	
Overall dimensions	mm	150(W) × 427(L) × 227.5(H)		170(W) × 485.5(L) × 240(H)		170(W) × 487.5(L) × 249.5(H)	

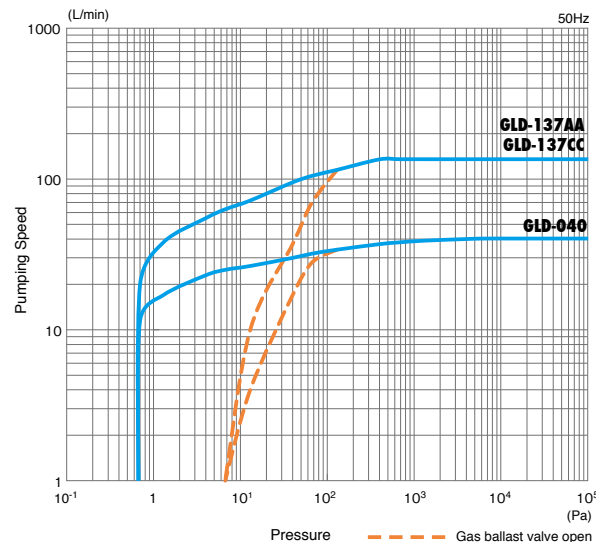
* : Ultimate pressure is measured by Pirani gauge. (In case of macleod gauge, the rate is one digit smaller than this rate.)

Corresponding voltage and Certificate

Model	Voltage	Order Code	CE Marked	TUV Marked	cTUVus Marked
GLD-040	Single phase, 100–120V	A41840600000	✓	✓	✓
	Single phase, 200–240V	A41840800000	✓	✓	✓
GLD-137AA	Three phase, 200–240V	A46220000000	✓	✓	—
	Three phase, 380–460V	A46220100000	✓	✓	—
GLD-137CC	Single phase, 100–120V	A46230100000	✓	✓	✓
	Single phase, 200–240V	A46230400000	✓	✓	✓

— : Not Available, ✓ : Available

Pumping speed curves



* Further details can be found on our website. Outside drawing appears in Page 48.

Oil-Sealed Rotary Vacuum Pumps

GLD Series

GLD-202AA GLD-202BB GLD-280A

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
- Vacuum pumping system
- Back pump for the electronic microscope
- Semiconductor equipment, sputtering equipment, vacuum evaporation equipment
- Vacuum dryer, freeze dryer



GLD-202AA



GLD-202BB



GLD-280A

Specifications

Model	Unit	GLD-202AA		GLD-202BB		GLD-280A	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	200	240	200	240	280	336
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	
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		Three phase, 750W, 4P, Multiple-range motor 200 – 240V/380 – 460V	
Full load current	A	3.00 (200V)	2.70 (200V)	8.2 (100-120V) 4.1 (200-240V)	7.9 (100-120V) 3.9 (200-240V)	3.6 (200V)	3.3 (200V)
		3.10 (220V)	2.70 (220V)			3.7 (220V)	3.2 (220V)
		3.30 (230V)	2.70 (230V)			4.0 (230V)	3.2 (230V)
		3.60 (240V)	2.80 (240V)			4.2 (240V)	3.2 (240V)
		1.80 (380V)	1.50 (380V)			2.1 (380V)	1.9 (380V)
		1.90 (400V)	1.60 (400V)			2.3 (400V)	1.9 (400V)
		2.00 (415V)	1.70 (440V) 1.70 (460V)			2.4 (415V)	2.0 (460V)
Oil capacity	mL	1,100		1,100		700 – 1,100	
Recommended oil		SMR-100		SMR-100		R-7	
Weight	kg	29.0		31.0		34.5	
Inlet port diameter	mm	KF-25		KF-25		KF-25	
Ambient temperature	°C	7 – 40		7 – 40		7 – 40	
Overall dimensions	mm	170(W) × 513.5(L) × 240(H)		170(W) × 515.5(L) × 249.5(H)		181(W) × 536(L) × 269(H)	

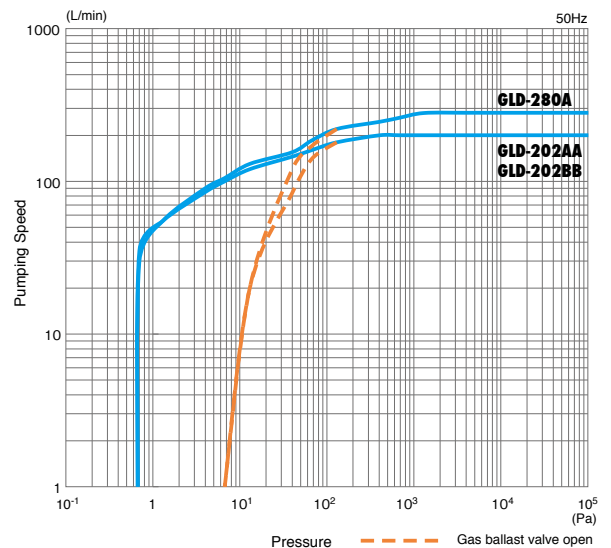
* : Ultimate pressure is measured by Pirani gauge. (In case of macleod gauge, the rate is one digit smaller than this rate.)

Corresponding voltage and Certificate

Model	Voltage	Order Code	CE Marked	TUV Marked	cTUVus Marked
GLD-202AA	Three phase, 200–240V	A46240000000	✓	✓	–
	Three phase, 380–460V	A46240100000	✓	✓	–
GLD-202BB	Single phase, 100–120V	A46250100000	✓	✓	✓
	Single phase, 200–240V	A46250400000	✓	✓	✓
GLD-280A	Three phase, 200–240V	A46200000002	✓	✓	–
	Three phase, 380–460V	A46200100001	✓	✓	–

– : Not Available, ✓ : Available

Pumping speed curves



* Further details can be found on our website. Outside drawing appears in Page 48 – 49.