

## 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) 2.10 (200V), 2.20 (220V) 2.30 (230V), 2.60 (240V)	3.60 (100V), 3.40 (110V) 3.40 (115V), 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		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)	

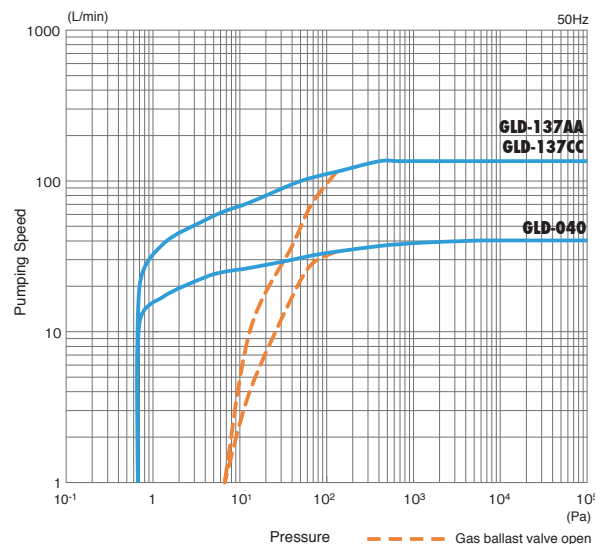
\* : Ultimate pressure is measured by Pirani gauge. (In case of macleod gauge, the rate is one digit smaller than this rate.)

### 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)	

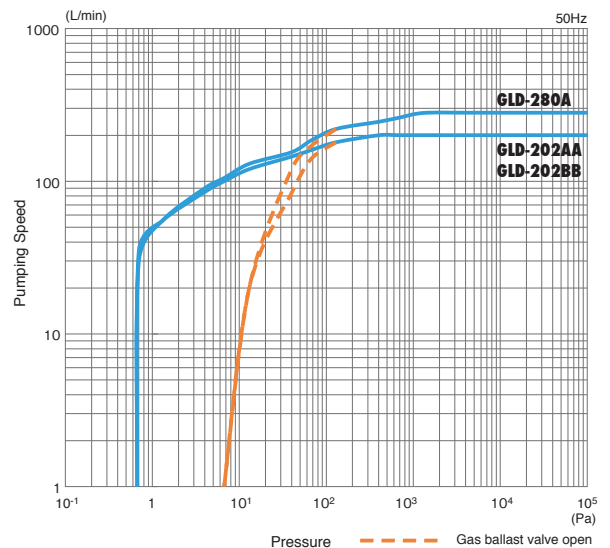
\* : Ultimate pressure is measured by Pirani gauge. (In case of macleod gauge, the rate is one digit smaller than this rate.)

### 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.