

# Direct Drive Oil-Sealed Rotary Vacuum Pumps

## G Series

### Features

ULVAC KIKO's Direct-Drive Oil-Sealed Rotary Vacuum Pumps are the sliding vane "Gaede Type". Oil is used to lubricate the rotary mechanism and to seal the vacuum pumping chamber, producing excellent vacuum stability and reliability. Small direct-drive pumps feature faster start-up and quicker pump down compared to belt-driven pumps. In addition, ULVAC KIKO's G-Series Oil-Sealed Rotary Vacuum Pumps are cost-effective and operate quietly.

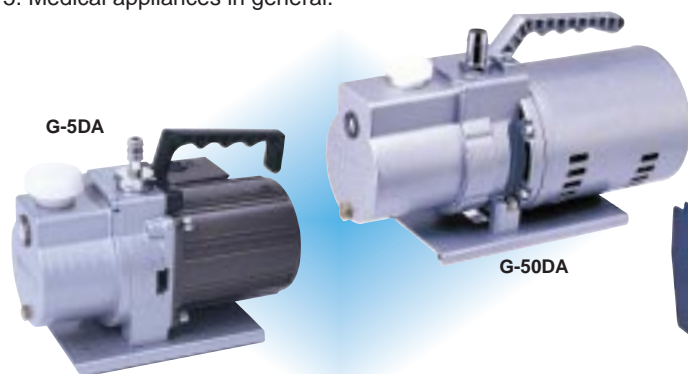
G-Series pumps are available in single and dual stage versions with pumping speeds ranging from 5 L/min. to 100 L/min..

### Usage Guidelines

1. Ensure the proper oil level and oil condition is maintained at all times.
2. Before stopping a pump it should be vented to atmosphere to prevent the back-streaming of oil. (Contact your local sales representative for applications assistance.)
3. When operating a pump for a long period of time above 0.1MPa, it is possible that an oil mist be exhausted from the exhaust port. Installation of an oil mist trap (OMT Series) or an oil mist separator (OMS Series) will eliminate this potential source of contamination.
4. An oil-sealed rotary pump is not recommended for continuous operation near atmospheric pressure.

### Applications

1. Scientific and chemical experiments, analyzing appliances, Laser-related facilities.
2. Small food packing machines, vacuum molding machines.
3. High-vacuum pumping systems, backing system of electron microscopes, semiconductor manufacturing systems.
4. Vacuum deposition systems, freeze drying systems.
5. Medical appliances in general.



## GHD Series

### Features

ULVAC KIKO's GHD Series of direct drive, oil-sealed rotary vacuum pumps offers premium features including: anti-suck back valve, gas ballast valve, forced oil lubrication and thermal protection. GHD Series pumps also offer compact size and low noise/low vibration operation for built-in and desktop applications.

### Usage Guidelines

GHD Series pumps offer upgraded performance over G Series pumps for many applications; however, the following points need be considered in its selection:

1. GHD Series pumps operate over a wide range—they can attain very low ultimate vacuum ( $10^{-2}$  Pa) and use KF flanges which are designed to achieve high vacuum. Use of high vacuum flanges is recommended for best performance.
2. GHD Series pumps are not recommended for applications involving toxic or corrosive gases. (See GCD Series).
3. An oil-sealed rotary pump is not recommended for continuous operation near atmospheric pressure.

### Applications

1. Scientific and chemical experiments, analyzing appliances, laser related facilities.
2. High-vacuum pumping systems.
3. Backing systems for electron microscopes.
4. Leak detector.



### Specifications

Model	Actual pumping speed (L/min.)	Ultimate pressure (Pa)	Suction pipe diameter (mm)	Weight (kg)	Overall dimensions W x L x H (mm)	Motor	
						Wattage (W)	Selectable Voltage (V)
※ G-5DA	5/6 (50/60Hz)	6.7	O.D 12 x I.D 6	5	130 x 203 x 159.5	40	Single phase 100, 115, 200, 220
※ G-10DA	10/12 (50/60Hz)	1.3	O.D 18 x I.D 14	5.5	130 x 228 x 165	60	Single phase 100, 115, 200, 220
※ G-20DA	20/24 (50/60Hz)	$1.3 \times 10^{-1}$	O.D 18 x I.D 14	9	156 x 299.5 x 199.5	100	Single phase 100, 115, 200, 220
※ G-50DA	50/60 (50/60Hz)	$1.3 \times 10^{-1}$	O.D 18 x I.D 14	11	156 x 344.5 x 199.5	200	Single phase 100, 115, 200, 220
※ G-100D	100/120 (50/60Hz)	$6.7 \times 10^{-2}$ (G.V.closed) 6.7 (G.V.open)	O.D 27 x I.D 20	22.4	173.5 x 460.5 x 264	400	Single phase 100, 200
※ GHD-030	30/36 (50/60Hz)	$6.7 \times 10^{-2}$ (G.V.closed) 6.7 (G.V.open)	KF-16	8.7	120 x 278.5 x 166	150	Single phase 100, 115, 200, 220

※ : Thermal protector attached

\* In case different voltages and CE are required, please consult us.

\* Please refer to internet for the dimensional drawings of each pump.