

The ULVAC Gv200 Oil Rotary Vacuum Pump is engineered for precision laboratory and analytical applications that demand both performance and cleanliness. Featuring a magnetic coupling design, the Gv200 eliminates shaft seals that often leak, ensuring contamination-free operation with no oil handling or cleanup required.

With its double-stage exhaust system, built-in backflow prevention, gas ballast mechanism, and integrated thermal protection, the Gv200 delivers stable performance, long service life, and safe operation even in demanding environments. Its quiet running design makes it ideal for installation in offices, labs, and research facilities where low noise is essential.



## Key Features & Advantages

- Double-stage exhaust system — Achieves deeper vacuum and stable performance.
- Backflow prevention mechanism — Stops oil from returning into connected equipment, ensuring contamination-free operation.
- Gas ballast mechanism — Enables safe handling of vapor-rich samples, prevents condensation, and protects pump oil.
- Built-in thermal protector — Provides automatic overheating protection, extending motor and pump life.
- Magnetic coupling — Eliminates the need for shaft seals, removing oil leakage risks and reducing maintenance.
- Quiet operation — Perfect for labs and offices where a noise-sensitive environment is critical.
- ON/OFF switch and input terminal

## Why Choose the ULVAC Gv200?

- User-friendly — Designed for quiet environments with minimal maintenance needs.
- Clean operation — No oil leaks, no mess, and no risk of back contamination.
- Safe and reliable — Integrated protection features keep your system and results safe.

## Applications

The Gv200 is the ideal vacuum solution for advanced analytical instruments and precision laboratory systems:

- Wavelength-dispersive X-ray spectroscopy (WDXRF)
- X-ray diffraction (XRD) systems
- Transmission electron microscope (TEM)
- Scanning electron microscope (SEM)
- Freeze dryers Gas chromatography / mass spectrometry (GC/MS)
- Liquid chromatography / mass spectrometry (LC/MS) Ultra centrifuges

Model	Unit	50Hz	60Hz
Actual Pumping Speed	L/min	200	240
Ultimate Pressure* <sup>1</sup> (G.V. Close)	Pa	$5.0 \times 10^{-1}$	
Ultimate Pressure (G.V. open)	Pa	5	
Motor Output	W	550	
Recommended oil		SMR-100	
Oil capacity	mL	1,000	
Weight	kg	31	
Inlet port diameter	mm	KF-25	
Ambient temperature	°C	7 - 40	
Overall dimensions	mm	166(W) x 490(L) x 241.5(H)	
RoHS applied		✓	

\*1 The ultimate pressure is measured by a Pirani gauge. For pumps with an ultimate pressure of 1.3 Pa or lower, measurements taken with a McLeod gauge may show values approximately one order of magnitude lower.

\* The power plug and cord are not included.

### Pumping Speed Curves



