# Gv200 Oil Rotary Vacuum Pump

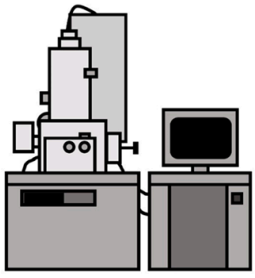
The ULVAC Gv200 Oil Rotary Vacuum Pump is engineered for precision laboratory and analytical applications that demand both performance and cleanliness. Featuring a magnetic coupling design, the Gv200 eliminates shaft seals that often leak, ensuring contamination-free operation with no oil handling or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


## Applications

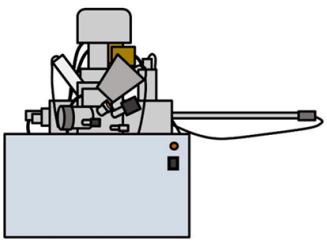
The GV200 is the ideal vacuum solution for advanced analytical instruments and precision laboratory systems, delivering a perfect balance of performance, reliability, and compact design. Whether integrated into mass spectrometers, electron microscopes, or other high-precision analytical setups, the GV200 offers exceptional efficiency and longevity, making it a dependable choice for modern laboratory and R&D applications.

- ➢ Wavelength-Dispersive X-ray Spectroscopy (WDXRF)
- ➢ Transmission Electron Microscope (TEM)
- ➢ Mass Spectrometry - LC-MS / GC-MS
- ➢ Freeze Dryers
- ➢ X-Ray Diffraction (XRD) Systems
- ➢ Scanning Electron Microscope (SEM)
- ➢ Ultra Centrifuges



SEM / TEM

GC-MS / LC-MS



X-Ray Diffraction Platforms

ULTRA Centrifuges

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The GV200 combines advanced engineering and thoughtful design to deliver reliable, clean, and efficient vacuum performance for laboratory and analytical applications. Each feature is purpose-built to enhance durability, minimize maintenance, and ensure consistent results across demanding environments.
From its double-stage exhaust system for deeper vacuum levels to its magnetic motor coupling that eliminates oil leakage risk, the GV200 embodies ULVAC's commitment to precision, safety, and ease of use.

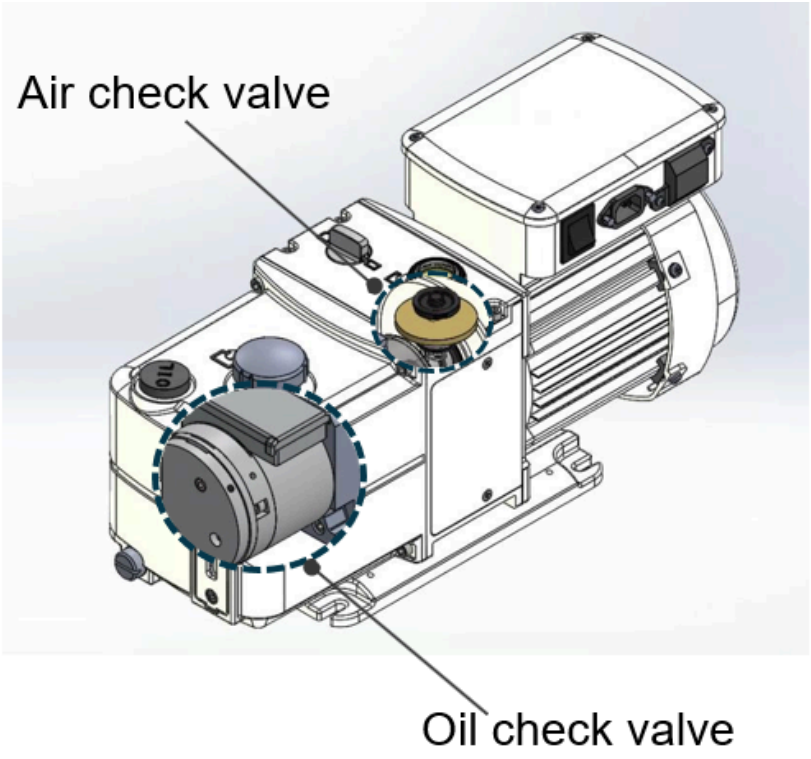
## Key Features & Advantages

- Magnetic Motor Coupling: Eliminates the need for shaft seals, removing the risk of oil leakage and reducing pump maintenance or failures.
- Double-Stage Exhaust System: Achieves deeper vacuum and stable performance.
- Backflow Prevention Mechanism: Stops oil from returning into connected equipment, ensuring contamination-free operation. Check valves are located on the cylinder (Oil) and inlet valve (Air).
- 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.
- Quiet Operation: Perfect for labs and offices where a noise-sensitive environment is critical.
- Plug & Play: Integrated power switch and power plug receptacle.

## 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 streaming contamination.
- Safe and reliable - Integrated protection features keep your system up & running.

GV SERIES - OIL BACKFLOW DOUBLE PREVENTION



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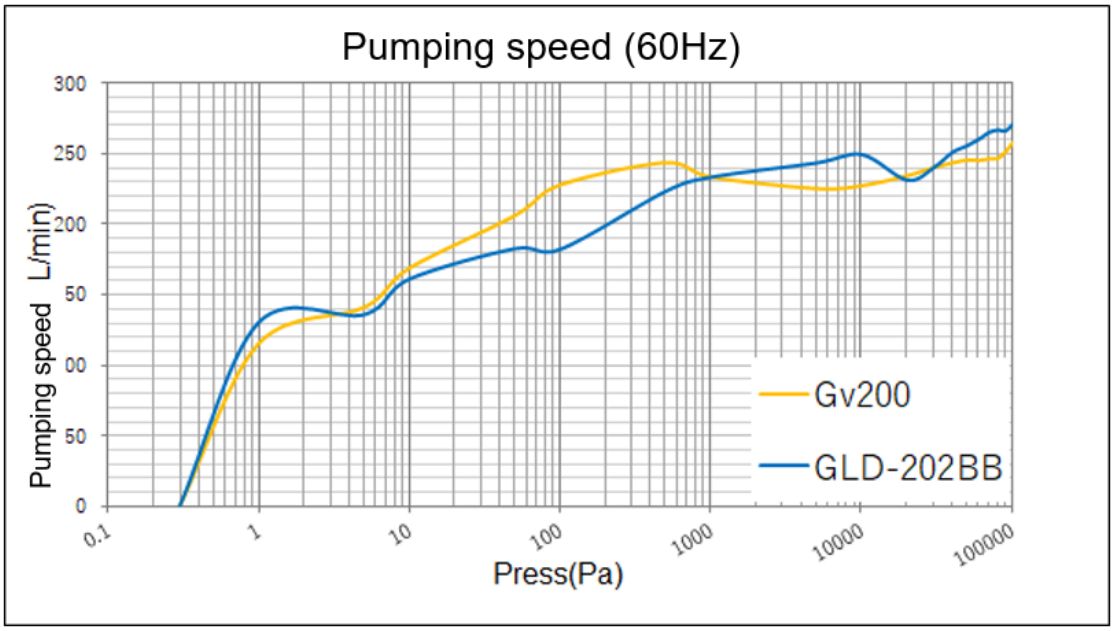



## GV SERIES - SPECIFICATIONS

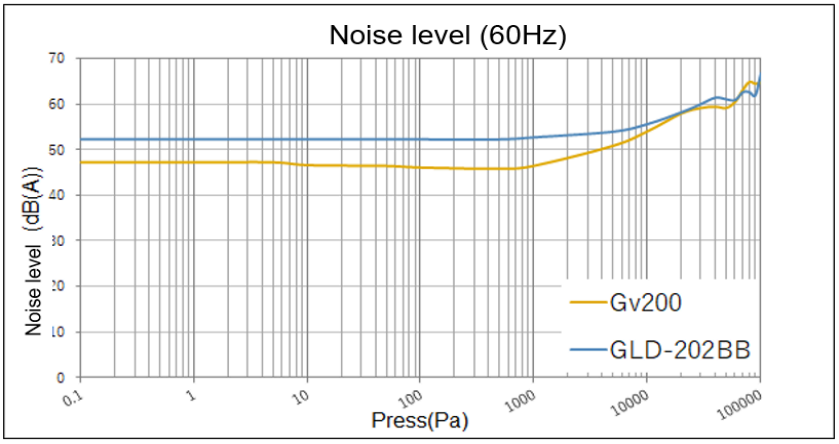
| Model | Unit | 50Hz | 60Hz |
|---|---|---|---|
| Actual Pumping Speed | L/min | 200 | 240 |
| Ultimate Pressure*1 (G.V.Close) | Pa | 5.0 x 10 - 1 | |
| Ultimate Pressure (G.V. open) | Pa | 5 | |
| Motor Output | W | 550 | |
| Recommended oil | | SMR-100 | |
| Oil capacity | mL | 1,000 | |
| Weight | 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.

# Gv200 Oil Rotary Vacuum Pump

## Quiet by Design

The GV200 operates at an impressively low noise level, under 65 dB,(Average 48dB), which makes it exceptionally well-suited for laboratory, research, and analytical environments where quiet operation is essential. Its quiet performance ensures a more comfortable and focused workspace, allowing scientists and technicians to maintain productivity without the constant hum typical of conventional vacuum pumps.




To put that into perspective, 65 dB is about the sound level of a normal conversation or background office noise, and significantly quieter than many traditional rotary vane pumps that often exceed 75 dB.

This reduced sound profile allows the GV200 to run comfortably alongside sensitive analytical instruments, minimizing vibration and acoustic interference that could affect delicate measurements or working conditions.

## GV SERIES - PRODUCT DIMENSIONS