

Residual Gas Analyzer Qulee BGM series

The Qulee BGM Series 100 and 200 amu residual gas analyzers from Ulvac are the latest RGA's offering exceptional performance at an incredible price. Design based from market feedback offers a complete RGA package at approximately half the price of similar models. Every Ulvac RGA system comes complete with a quadrupole probe, integrated display, and a windows-based software package for data acquisition, system set-up and control. The Qulee's onboard display means that no PC is required for system operation.



■ Features

- Display Integrated Design (on-board display)
- Simple programmable "one touch" operation
- Pre-programmed leak test modes (He / O₂:N₂ ratio)
- Total pressure and partial pressure measurement.
- Full amu range scans and multiple ion detection scans vs. time for up to 20 masses
- Qulee can bake to 120°C during measurement without affecting performance (250°C with electronics removed)
- Qulee QCS software (Windows 2000/XP/VISTA) included
- Environmentally friendly RoHS compliant design

■ Application

- ❖ PVD and High Vacuum System monitoring
- ❖ Freeze Drying applications
- ❖ Vacuum System Qualification and Maintenance
- ❖ Outgassing studies and leak testing of various gases

Derivation of Qulee

The name "Qulee" derives from an image of a Quadrupole mass spectrometer, leading to a four leaf clover that implies good fortune. The "Qulee" quadrupole mass spectrometer series is the latest from Ulvac. "Qulee" series offers simplicity and value to the end user.

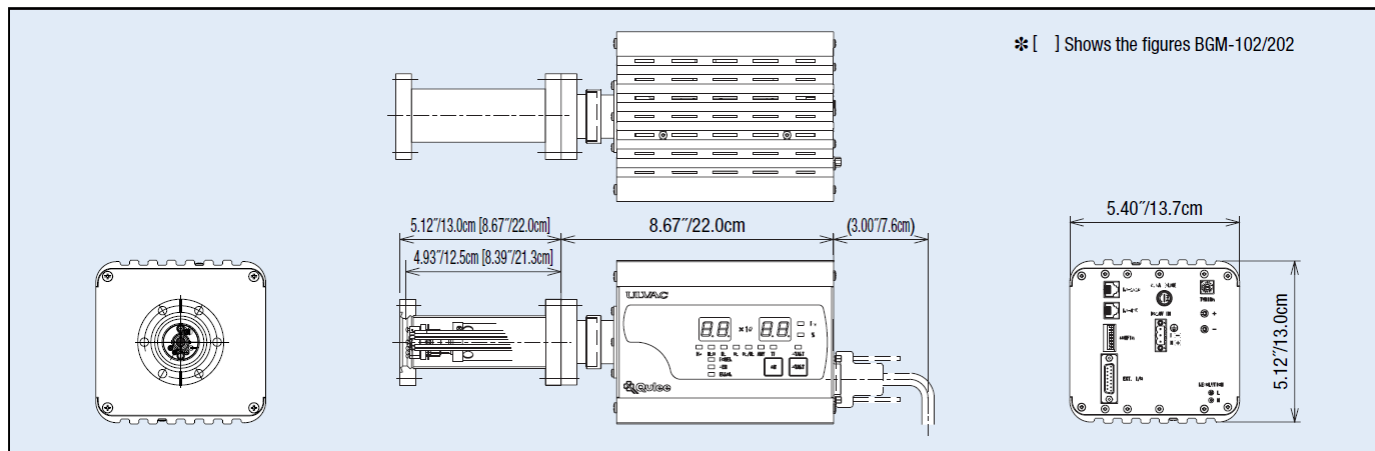
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■ Specification

Model	BGM-101L	BGM-101R	BGM-102R	BGM-201R	BGM-202R
Mass Filter Type	Quadrupole				
Mass Range	1-100 amu			1-200 amu	
Resolution	M/ΔM = 1M (10% P. H.)				
Sensitivity-amps/Torr (amps/mbar)	3×10^{-5} (2×10^{-5})		530 (400)	3×10^{-5} (2×10^{-5})	
Mini. Detectable Partial pressure	5×10^{-8} (7×10^{-8})		3×10^{-14} (4×10^{-14})	5×10^{-8} (7×10^{-8})	
Maxi. Operation Pressure	8×10^{-5} Torr (1×10^{-4} mbar)				
Detector Type	Faraday Cup		EM Tube/Faraday Cup	Faraday Cup	EM Tube/Faraday Cup
Envelop	Optional	Standard Accessory			
Filament	Ir / Y ₂ O ₃				
Ionization Voltage	50eV				
Emission Current	0.5mA				
Degas Function	N / A	Electron Bombard Type 300V, 5mA			
Total Pressure Measurement	Capable				
One Click Function	Capable. He / H ₂ O / N ₂ / O ₂ / Any Selected Gas				
One Click Leak Test Function	Capable				
Power Input	DC24V +/- 10% 50W (AC power adapter 100-240V optional)				
Weight (Controller/Sensor)	4.6lb / 1.1lb		4.8lb / 1.4lb	4.6lb / 1.1lb	4.8lb / 1.4lb
Maxi. Operation Temperature	120 °C (248 °F)				
Maxi. Beak out Temperature	250 °C (482 °F)				
Operating Temperature Range	10 – 40 °C (50 - 104 °F)				
Operating Humidity Range	15 - 80% (not condensing)				
IP	IP30 (Controller)				
Power Connector	MSTBV2.5 / 3-GF-5.08				
Serial Communication Type	RS232C/RS485 (with Option)				
External Input / Output Connector	D-sub 15pin (M2.6 Screw)				
Serial Communication Connector	6 Pole 6 Wire Modular Connector (RJ-11)				
External Input / Output Signal	Analog Input (0 to 10V) x2, External Interlock Input (Pressure Protection) x1, Partial Pressure Set point Output x2 (Fault, Alarm), Total Pressure Set point Output x 1				
Software	Qulee QCS Ver2 later (Windows2000 / XP/ VISTA)				
Standard Accessories	Power Connector, RS232C Communication Cable (3m long), Software (Install CD)				
Operation Manual	CD	Clean Room Paper			
Optional Accessories	RS232C Communication Cable (5, 10, 15m long), AC Power Adapter, RS232C/485 Converter, RS485 Branch Connector and Junction Cable, Input/Output Connector				

■ Dimensions



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Contents are subject to change without notice to reflect performance improvements.