

# Quadurupole Mass Spectrometer with Differential Pumping Kit [Qulee with YTP]

A variation of Qulee, adding new features in response to customer needs.

By adding a differential pumping unit, the Qulee provides measurement and analysis capabilities for process management and residual gas analysis.



## Features

- ▶ **Excellent Cost Performance**  
Provides gas analysis with an optional differential pumping unit
- ▶ **Compact Design**  
Utilizes standard vacuum unit model YTP-50M
- ▶ **Integrated Display Unit Design**  
Provides visual data without need for a PC
- ▶ **Easy to Operate**  
One-click function for easy operation, no complex procedures
- ▶ **Atmospheric Pressure Analysis**  
Selectable maximum measurable pressures 500Pa, 100Pa, 10Pa and 1Pa  
(3.75Torr, 0.75Torr,  $7.5 \times 10^{-2}$ Torr and  $7.5 \times 10^{-3}$ Torr/  
5mbar, 1mbar, 0.1mbar and  $1.0 \times 10^{-2}$ mbar)
- ▶ **Select a Model Depending on your Application**  
Select from the mass numbers 1 to 100 (BGM-101/102), 1 to 200 (BGM-201/202), 1 to 300 (HGM-302)

- ▶ **Complete Leak Test Function**  
Helium leak test, air leak test, leak up test
- ▶ **Qulee QCS**  
Software included (Windows XP/7)

## Applications

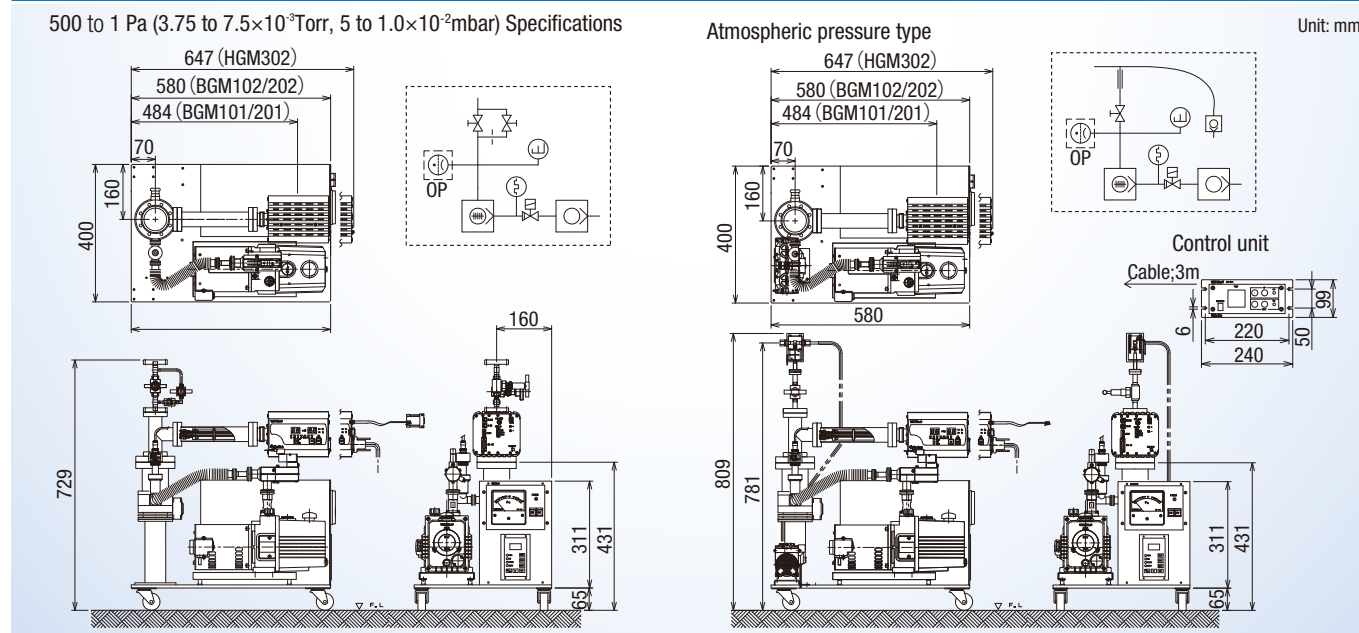
- ▶ Various types of gas analysis for research and development
- ▶ Gas monitoring of PVD system during processing
- ▶ Residual gas analysis in PVD system
- ▶ Residual gas analysis for high vacuum pumping equipment, etc.
- ▶ Atmospheric pressure ( $10^{-5}$ Pa, 760Torr, 1013mbar) of gas analysis (Atmospheric pressure type)

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## Specifications

Qulee main body	Select from BGM-101/102/201/202, HGM-302
Max sampling pressure	Select from atmospheric pressure/500Pa/100Pa/10Pa/1Pa Select from atmospheric pressure 3.75Torr/0.75Torr/7.5×10 <sup>-2</sup> Torr/7.5×10 <sup>-3</sup> Torr Select from atmospheric pressure 5mbar/1mbar/0.1mbar/1.0×10 <sup>-2</sup> mbar
Gas induction (500 to 1Pa type/3.75 to 7.5×10 <sup>-3</sup> Torr type/5 to 1.0×10 <sup>-2</sup> mbar type)	Manual bellows valve-Flange UFC070
Atmospheric unit	Dry pump
APS-001	Ultimate pressure
(Atmospheric pressure type)	Control unit
	Capillary tube unit
	Input voltage
Pump unit YTP-50M	TMP
	Roughing pump
	Ultimate pressure
	Pirani gauge
	Input voltage
Software	Qulee QCS Ver. 3.0(Windows XP/7)
Optional accessories	Ionization gauge package (GI-M2, M-13, Sensor head cable 2m, Cross tube [IFX070], Conversion flange [UFC070/034], Bolts, Gaskets)

## Dimensions



\* Pump unit, Qulee main body, gas inlet, and other parts will be packaged separately. Please refer to the assembly manual for set up.

## Order Number

Specification (Rotary pump type)	Order number
Quadrupole mass spectrometer spec	Atmosphere
BGM-101 Mass range: 1 to 100amu w/o SEM	500Pa (3.75Torr/5mbar)
BGM-102 Mass range: 1 to 100amu w/ SEM	100Pa (0.75Torr/1mbar)
BGM-201 Mass range: 1 to 200amu w/o SEM	10Pa (7.5×10 <sup>-2</sup> Torr/0.1mbar)
BGM-202 Mass range: 1 to 200amu w/ SEM	1Pa (7.5×10 <sup>-3</sup> Torr/1.0×10 <sup>-2</sup> mbar)
HGM-302 Mass range: 1 to 300amu w/ SEM	

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