

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 3000Pa, 500Pa, 100Pa, 10Pa and 1Pa
(22.5Torr, 3.75Torr, 0.75Torr, 7.5×10^{-2} Torr and 7.5×10^{-3} Torr/
30mbar, 5mbar, 1mbar, 0.1mbar and 1.0×10^{-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)
- **Low Running Cost**
Troublesome oil exchange and refill, and bearing replacements are unnecessary in the case of pivot bearing of turbo molecular pump and it reduces running cost.

- **Clean High Vacuum**
Saturation vapor pressure of the fluorine oil used in turbo-molecular pump is on the order of 10^{-11} Pa, 10^{-13} Torr, 10^{-13} mbar (at 20°C, 68°F) and it becomes boundless clean when selecting dry fore pump.
- **Complete Leak Test Function**
Helium leak test, air leak test, leak up test
- **Qulee QCS**
Software included (Windows 7/8)

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)
- Analysis of endpoint monitoring at vacuum furnace process and oxygen density.
- Analysis of dring point at freeze-dry system and impurity check.

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Specifications

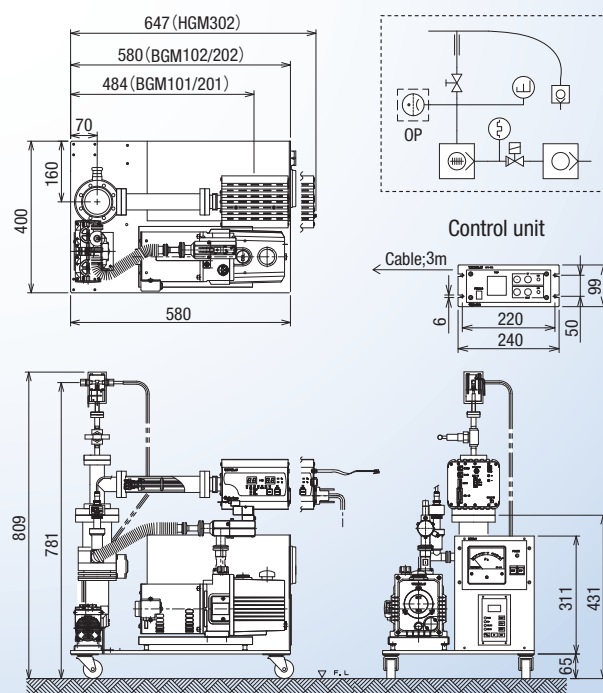
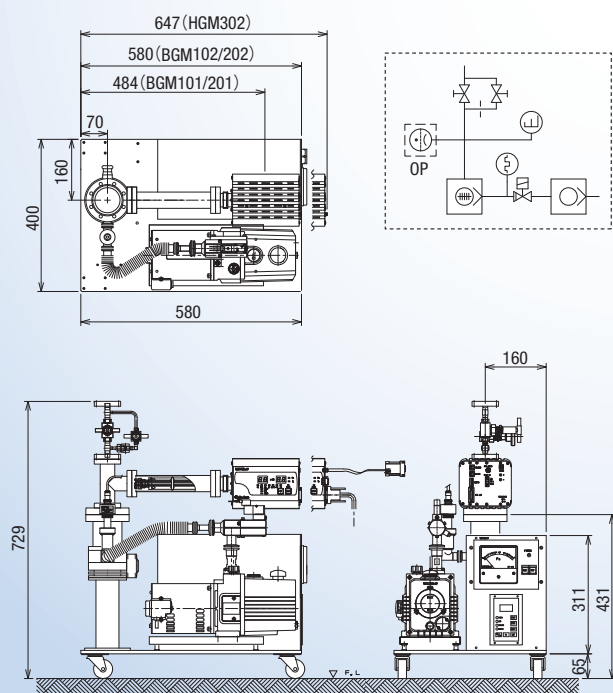
Qulee main body	Select from BGM-101/102/201/202, HGM-302
Max sampling pressure	Select from atmospheric pressure 3000Pa/500Pa/100Pa/10Pa/1Pa Select from atmospheric pressure 22.5Torr/3.75Torr/0.75Torr/7.5×10 ⁻² Torr/7.5×10 ⁻³ Torr Select from atmospheric pressure 30mbar/5mbar/1mbar/0.1mbar/1.0×10 ⁻² mbar
Gas induction (500 to 1Pa type/3.75 to 7.5×10 ⁻³ Torr type/5 to 1.0×10 ⁻² mbar type)	Manual bellows valve-Flange UFC070
Atmospheric unit	Dry pump
APS-001	Pumping speed 6L/min
(Atmospheric pressure type)	Ultimate pressure
	6700Pa (50Torr, 67mbar)
	Control unit
	Power cable 3m
	Capillary tube unit
	Manual bellow valve -Coupling 1/4" Swagelock
	Input voltage
	Single phase AC100V, 5A
Pump unit YTP-50M	TMP
	Pumping speed 50L/s (N ₂)
	Roughing pump
	Select rotary pump or dry pump
	Ultimate pressure
	Below 1.0×10 ⁻⁷ Pa (7.5×10 ⁻¹⁰ Torr, 1.0×10 ⁻⁹ mbar) (value after TMP bake out)
	Pirani gauge
	GP-1G
	Input voltage
	Single phase AC100V, 14A
Software	Qulee QCS Ver. 3.1 (Windows 7/8)
Optional accessories	Ionization gauge package (GI-M2, M-13, Sensor head cable 2m, Cross tube [IFX070], Conversion flange [UFC070/034], Bolts, Gaskets), USB-RS232C Micro converter

Dimensions

3000 to 1 Pa (22.5 to 7.5×10⁻³Torr, 30 to 1.0×10⁻²mbar) Specifications

Atmospheric pressure type

Unit: mm



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

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