OmniStar/ThermoStar GSD 350

Quadrupole Mass Spectrometers

PFEIFFER VACUUM+FAB SOLUTIONS

Part of the BUSCH GROUP

User-friendly

Easy operation, automatic calibration and tuning

Compact

Lightweight, portable

High performance

Low detection limits, multi-gas analysis, detecting even small concentrations of reactive and condensable gases

Accessories, spare parts and options

- Spare inlet systems
- Spare electronics
- Spare ion source
- Spare filament
- Spare analyzer
- Spare vacuum gauge and vacuum pump
- Mass ranges
- Standard or corrosive gas version
- Filament material
- Mass calibration option
- Various inlet systems

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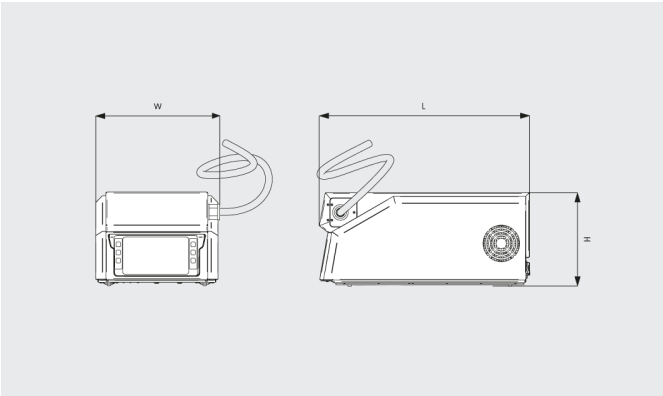
Dimensional drawing



	OmniStar	ThermoStar
Mass range	1 - 100 / 1 - 200 / 1 - 300 u	1 - 100 / 1 - 200 / 1 - 300 u
Gas connection	Stainless steel or quartz capillary	Quartz capillary
Gas inlet	via software-controlled inlet valve or user interface	continuously open
Detection limit	< 100 ppb	< 100 ppb
Sample gas pressure	up to 1000 hPa (mbar)	up to 1000 hPa (mbar)
Pressure reduction	Two-stage, segregation-free	Two-stage, segregation-free
Rod system	Stainless steel, 6 mm diameter, 125 mm length	Stainless steel, 6 mm diameter, 125 mm length
Mass spectrometer electronics	PrismaPro	PrismaPro
Operating temperature capillary	up to 350 °C	up to 350 °C
Detector	C-SEM, Faraday	C-SEM, Faraday
Contribution to neighboring mass	< 10 / <20 / < 50 ppm	< 10 / <20 / < 50 ppm
Resolution at 10% peak height (adjustable)	0.5 - 2.5 u	0.5 - 2.5 u
Dwell time	1 ms - 16 s/u	1 ms - 16 s/u
Weight approx.	23 - 26 kg	23 - 26 kg
Dimensions (L x W x H)	615 x 358 x 274 mm	615 x 358 x 274 mm
Supply voltage	100 - 200 VAC	100 - 200 VAC

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Interface	Ethernet; analog input 5x ± 10 V / 16 bit; analog output 4x 0...10 V / 16 bit; digital input 4x; digital output 7x sink, optical insulated, 24V	Ethernet; analog input 5x ± 10 V / 16 bit; analog output 4x 0...10 V / 16 bit; digital input 4x; digital output 7x sink, optical insulated, 24V
Operation	7" colored touch screen or Web User Interface	7" colored touch screen or Web User Interface
Software	PV MassSpec	PV MassSpec
Gas flow rate	1 - 2 sccm	1 - 2 sccm

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!

CONTACT FORM

