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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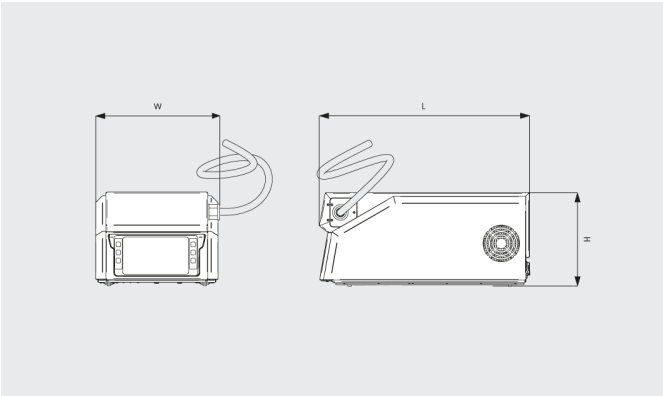
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Dimensional drawing



	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 / < 1 ppm / < 10 ppm	< 100 ppb / < 1 ppm / < 10 ppm
Sample gas pressure	up to 1200 hPa (mbar)	up to 1200 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 200/350 °C (depending on version)	up to 200/350 °C (depending on version)
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 - 240 V AC	100 - 240 V AC

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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 6x sink, optical insulated, 24V; relay 2x	Ethernet; analog input 5x ± 10 V / 16 bit; analog output 4x 0...10 V / 16 bit; digital input 4x; digital output 6x sink, optical insulated, 24V; relay 2x
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

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