

GateKeeper® GPU Ozone Gas Purifiers

*Superior volatile metal purification
and particle filtration*

GateKeeper® GPU ozone gas purifiers efficiently reduce solid and volatile metals such as chromium (Cr) and manganese (Mn) from ozone gas. These advanced purifiers significantly reduce metal contamination on wafers, increasing yield.

Advanced gas purification technology enables a >99% volatile efficiency removal rating for Cr, which means the conditioning time required for the ozone gas delivery system can be significantly reduced. In addition to dramatically reducing tool startup time, (depending on the purifier installation point), the purifier with an integrated PTFE/PFA particle filter membrane also helps eliminate metal spiking after conditioning, greatly reducing the risk of wafer defects from metals contamination.



APPLICATIONS

- Chemical vapor deposition (CVD) tools
- Dry etching/ashing tools
- Wet etch and clean (WEC) tools

FEATURES & BENEFITS

Advanced gas purification technology	Efficiently removes solid and volatile metals (Cr and Mn) from O ₃ gas, reducing initial conditioning time of the ozone gas delivery system
Integrated PTFE/PFA filter	Removes particles immediately after media purification, reducing wafer particles and eliminating the need for an independent particle filter
Compact, in-line design with gasket seal	Enables fast, easy installation

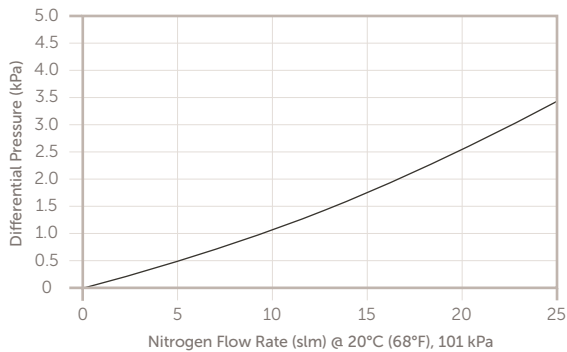
SPECIFICATIONS

Materials of construction	Filter membrane	PTFE
	Purification media	Porous inorganic material
	Housing	316L stainless steel
	Surface finish, internal	Ra <0.17 µm (electropolished)
	Gasket	Stainless steel
Retention	Volatile metals	Cr and Mn
	Volatile metal removal efficiency	>99% for Cr
	Particles	>99.9999999% for particles ≥0.003 µm
Connection	¼" gasket seal	
Gas	Ozone (O ₃) <300 g/Nm ³ concentration	
Inlet metal level	Cr: <1 ppm	
Recommended flow rate	5 to 25 slm	
Housing design pressure	0.99 MPa (143.5 psig) @ 40°C (104°F)	
Operating conditions	Purified condition for ozone gas: Pressure: 20 kPa (2.9 psi), temperature: 20° to 30°C (68° to 86°F)	

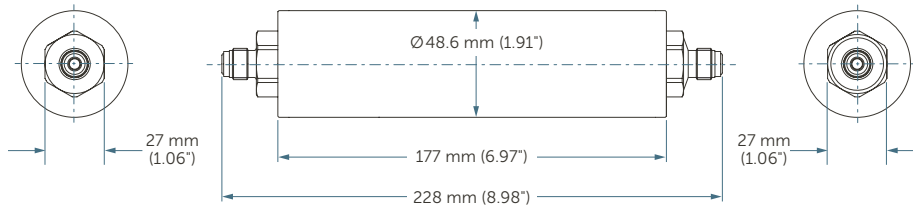
Please consult Entegris for flow rates and O₃ gas concentrations exceeding specifications.
Please contact Entegris for pressure applications over 20 kPa (2.9 psi).

PERFORMANCE DATA

Flow Rate Performance (Outlet to Atmosphere)



DIMENSIONS



ORDERING INFORMATION

Part number	Description
GPUS200TOZ04R12CA	GateKeeper GPU ozone gas purifier

FOR MORE INFORMATION

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