

MegaTorr® PS8 Nitrogen Gas Purifiers

*Efficient bulk gas removal of H₂O, O₂,
CO, CO₂, and H₂ impurities*

The auto regenerable MegaTorr® PS8 Series nitrogen gas purifiers are enhanced, optimized designs providing sub-ppb performance in compact footprints.

Entegris has drawn on years of experience in ultra-high purity (UHP) piping design, advanced process material analysis, and state-of-the-art integrated control systems to develop this family of purifiers to meet the needs of low capital cost, high reliability, and high performance.

APPLICATIONS

- Semiconductor
- Data storage
- Flat panel display
- LED
- Solar

FEATURES & BENEFITS

Uses dual adsorption processes	Provide ultra-high purity gas for semiconductor applications
Two adsorber vessels alternate between purify and regeneration modes	Provide continuous purification in a single process
Optimized design	Provides sub-ppb performance in small footprints with flow rates up to 833,333 slpm (50,000 Nm ³ /hr)



Optimized design with flow rates up to 833,333 slpm

SPECIFICATIONS

Gas purified	N ₂	
Impurities removed to <1 ppb	H ₂ O, O ₂ , CO, CO ₂ , H ₂	
Flow rates	Nm³/hr	slpm
PS8-MGS10 - PS8-MGS40	10 - 40	167 - 667
PS8-MGS50 - PS8-MGS60	50 - 60	833 - 1,000
PS8-MGS90 - PS8-MGS120	90 - 120	1,500 - 2,000
PS8-MGT200 - PS8-MGT300	200 - 300	3,333 - 5,000
PS8-MGT400 - PS8-MGT600	400 - 600	6,667 - 10,000
PS8-MGT700 - PS8-MGT1000	700 - 1,000	11,667 - 16,667
PS8-MGT1200 - PS8-MGT3000	1,200 - 3,000	20,000 - 50,000
PS8-MGT4000 - PS8-MGT10000	4,000 - 10,000	66,667 - 166,667
Maximum pressure drop	<0.7 bar (70 kPa) <1 bar (100 kPa), PS8-MGT4000-PS8-MGT10000 only	

Note: Purifiers are gas specific and should only be used for the gas indicated.

Standard Features

- Automated microprocessor controller
- HMI (Human Machine Interface)
- System alarms
- Electric gas preheaters
- Closed-loop temperature controls
- All-metal closure with doors
- Hydrogen blending station
- High-temperature hardware interlock
- Over-pressurization safety relief system

Optional Features

- Inlet and outlet isolation valves
- Mass flowmeter with 4-20 mA output
- Inlet and outlet pressure transducers
- Instrument air management system
- Auto or manual bypass
- Ultrafine 0.003 μm particle filter
- Separate control power
- Factory regenerable or automatically regenerable purifier in the bypass line

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

TERMS AND CONDITIONS OF SALE

All purchases are subject to Entegris' Terms and Conditions of Sale. To view and print this information, visit entegris.com and select the [Terms & Conditions](#) link in the footer.



Corporate Headquarters
129 Concord
Billerica, MA 01821
USA

Customer Service
Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

Entegris®, the Entegris Rings Design®, and other product names are trademarks of Entegris, Inc. as listed on entegris.com/trademarks. All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2021 Entegris, Inc. | All rights reserved. | Printed in the USA | 7242-11575ENT-0821