# MegaTorr® PS8 Nitrogen Gas Purifiers

Efficient bulk gas removal of  $H_2O$ ,  $O_2$ , CO,  $CO_2$ , and  $H_2$  impurities

The auto regenerable MegaTorr<sup>®</sup> 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.



Optimized design with flow rates up to 833,333 slpm

#### **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 <sup>3</sup> /hr)	



## **SPECIFICATIONS**

Gas purified	N <sub>2</sub>		
Impurities removed to <1 ppb	H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> , H <sub>2</sub>		
Flow rates	Nm <sup>3</sup> /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	Optional Features
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- 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

- 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 <u>entegris.com</u> and select the <u>Contact Us</u> link to find the customer service center nearest you.

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