

MegaTorr[®] PS7-A Hydrogen Gas Purifiers

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

The auto regenerable MegaTorr[®] PS7-A Series hydrogen 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 adsorption processes	Provide ultra-high purity hydrogen 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 16,667 slpm (1,000 Nm ³ /hr)



Optimized design with flow rates up to 16,667 slpm

SPECIFICATIONS

Gas purified	H ₂	
Impurities removed to <1 ppb	H ₂ O, O ₂ , CO, CO ₂ , NMHC (non methane hydrocarbons)	
Flow rates*	Nm³/hr	slpm
PS7-MGS10-A - PS7-MGS40-A	10 - 40	167 - 667
PS7-MGS50-A - PS7-MGS60-A	50 - 60	833 - 1,000
PS7-MGS90-A - PS7-MGS120-A	90 - 120	1,500 - 2,000
PS7-MGT200-A	200	3,333

*Other flow rates are available. Contact Entegris for details.

Maximum pressure drop	<0.7 bar (70 kPa)
Note:	Purifiers are gas specific and should only be used for the gas indicated

Standard Features	Optional Features
<ul style="list-style-type: none"> Automated microprocessor controller HMI (Human Machine Interface) Password protected control system System alarms H₂ leak detection sensor Vented cabinet purge High-temperature hardware interlock Over-pressurization safety relief system 	<ul style="list-style-type: none"> 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 UPS - uninterruptible power supply MODBUS data communication port Inert gas piping system purge 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.

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