

# MegaTorr<sup>®</sup> PS7-A Hydrogen Gas Purifiers

*Efficient bulk gas removal of H<sub>2</sub>O, O<sub>2</sub>, CO, CO<sub>2</sub>, and NMHC impurities*

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



*Optimized design with flow rates up to 16,667 slpm*

## APPLICATIONS

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

## FEATURES & BENEFITS

<b>Uses adsorption processes</b>	Provide ultra-high purity hydrogen gas for semiconductor applications
<b>Two adsorber vessels alternate between purify and regeneration modes</b>	Provide continuous purification in a single process
<b>Optimized design</b>	Provides sub-ppb performance in small footprints with flow rates up to 16,667 slpm (1,000 Nm <sup>3</sup> /hr)

## SPECIFICATIONS

<b>Gas purified</b>	H <sub>2</sub>	
<b>Impurities removed to &lt;1 ppb</b>	H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC (non methane hydrocarbons)	
<b>Flow rates*</b>	<b>Nm<sup>3</sup>/hr</b>	<b>slpm</b>
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.

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

Standard Features	Optional Features
<ul style="list-style-type: none"> <li>Automated microprocessor controller</li> <li>HMI (Human Machine Interface)</li> <li>Password protected control system</li> <li>System alarms</li> <li>H<sub>2</sub> leak detection sensor</li> <li>Vented cabinet purge</li> <li>High-temperature hardware interlock</li> <li>Over-pressurization safety relief system</li> </ul>	<ul style="list-style-type: none"> <li>Mass flowmeter with 4-20 mA output</li> <li>Inlet and outlet pressure transducers</li> <li>Instrument air management system</li> <li>Auto or manual bypass</li> <li>Ultrafine 0.003 µm particle filter</li> <li>Separate control power</li> <li>UPS - uninterruptible power supply</li> <li>MODBUS data communication port</li> <li>Inert gas piping system purge</li> <li>Factory regenerable or automatically regenerable purifier in the bypass line</li> </ul>

#### FOR MORE INFORMATION

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

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