

# MegaTorr® PS21 Ammonia Gas Purifiers

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

The auto regenerable MegaTorr® PS21 Series ammonia 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 1,667 slpm*

## APPLICATIONS

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

## FEATURES & BENEFITS

<b>Uses adsorption processes</b>	Provide ultra-high purity 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 1,667 slpm (100 Nm <sup>3</sup> /hr)

## SPECIFICATIONS

Gas purified	NH <sub>3</sub>	
Impurities removed to <1 ppb	H <sub>2</sub> O, O <sub>2</sub> , CO <sub>2</sub> , NMHC, metals	
Flow rates	PS21-MGS10 - PS21-MGS20	10 - 20 Nm <sup>3</sup> /hr (167 - 333 slpm)
	PS21-MGS30 - PS21-MGS60	30 - 60 Nm <sup>3</sup> /hr (500 - 1,000 slpm)
	PS21-MGS80 - PS21-MGS100	80 - 100 Nm <sup>3</sup> /hr (1,333 - 1,667 slpm)
Maximum pressure drop	<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>Electric gas preheaters</li><li>Ammonia detection sensor</li><li>Closed-loop temperature controls</li><li>Vented cabinet purge</li><li>All-metal closure with doors</li><li>Regeneration blending station</li><li>High-temperature hardware interlock</li><li>Over-pressurization safety relief system</li></ul>	<ul style="list-style-type: none"><li>Inlet and outlet isolation valves</li><li>Mass flowmeter with 4-20 mA output</li><li>Inlet and outlet pressure transducers</li><li>Auto or manual bypass</li><li>Ultrafine 0.003 µm particle filter</li><li>Separate control power</li><li>MODBUS data communications port</li><li>UPS - uninterruptible power supply</li></ul>

### FOR MORE INFORMATION

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

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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

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