

MegaTorr® PS21 Ammonia Gas Purifiers

Efficient bulk gas removal of H_2O , O_2 , CO_2 , 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

Uses 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 1,667 slpm (100 Nm ³ /hr)

SPECIFICATIONS

Gas purified	NH ₃	
Impurities removed to <1 ppb	H ₂ O, O ₂ , CO ₂ , NMHC, metals	
Flow rates	PS21-MGS10 - PS21-MGS20	10 - 20 Nm ³ /hr (167 - 333 slpm)
	PS21-MGS30 - PS21-MGS60	30 - 60 Nm ³ /hr (500 - 1,000 slpm)
	PS21-MGS80 - PS21-MGS100	80 - 100 Nm ³ /hr (1,333 - 1,667 slpm)
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 controllerHMI (Human Machine Interface)Electric gas preheatersAmmonia detection sensorClosed-loop temperature controlsVented cabinet purgeAll-metal closure with doorsRegeneration blending stationHigh-temperature hardware interlockOver-pressurization safety relief system	<ul style="list-style-type: none">Inlet and outlet isolation valvesMass flowmeter with 4-20 mA outputInlet and outlet pressure transducersAuto or manual bypassUltrafine 0.003 µm particle filterSeparate control powerMODBUS data communications portUPS - uninterruptible power supply

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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