

MegaTorr[®] PS7- CR Hydrogen Gas Purifiers

*Efficient bulk gas removal of H₂O, O₂,
CO, CO₂, THC, and N₂ impurities*

The MegaTorr[®] PS7-CR 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

Uses an adsorption process	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)

SPECIFICATIONS

Gas purified	H ₂	
Impurities removed to <1 ppb	H ₂ O, O ₂ , CO, CO ₂ , THC (including CH ₄), N ₂	
Maximum flow rates*	Nm³/hr	slpm
PS7-CR100	100	1,667
PS7-CR200	200	3,333
PS7-CR400	400	5,000
PS7-CR800	800	13,333

*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 controllerHMI (Human Machine Interface)Password protected control systemSystem alarmsH₂ leak detection sensorVented cabinet purgeHigh-temperature hardware interlockOver-pressurization safety relief system	<ul style="list-style-type: none">Mass flowmeter with 4-20 mA outputInlet and outlet pressure transducersInstrument air management systemAuto or manual bypassUltrafine 0.003 µm particle filterSeparate control powerUPS - uninterruptible power supplyMODBUS data communication port

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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