

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.

TERMS AND CONDITIONS OF SALE

All purchases are subject to Entegris' Terms and Conditions of Sale. To view and print this information, visit entegris.com and select the [Terms & Conditions](#) link in the footer.



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

Entegris®, the Entegris Rings Design®, and other product names are trademarks of Entegris, Inc. as listed on entegris.com/trademarks. All third-party product names, logos, and company names are trademarks or registered trademarks of their respective owners. Use of them does not imply any affiliation, sponsorship, or endorsement by the trademark owner.

©2021 Entegris, Inc. | All rights reserved. | Printed in the USA | 7242-11580ENT-0821