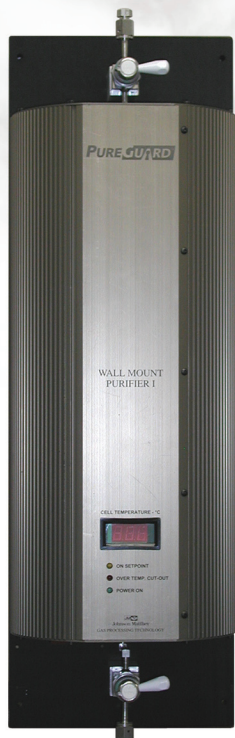


PUREGUARD™

The pure and simple choice

purifiers

PureGuard™ Wall Mount Heated Getter Gas Purifiers



Wall Mount I



Wall Mount II

PureGuard wall mount heated getter gas purifiers provide total removal of all impurities and parts-per-trillion (ppt) purity for nitrogen, argon, helium and other rare gases. The compact packaging provides continuous purification and comes in sizes for most flow rates.

Total Impurity Removal

PureGuard wall mount heated getter purifiers are continuously heated during operation to provide complete removal of all impurities. Getter purifiers offer the only method to remove N_2 and CH_4 from argon and rare gases. Getter is also the most efficient method for removal of O_2 , H_2O , CO , CO_2 and H_2 .

Longer Lifetime

Getter purifiers use non-evaporable zirconium-based getter media that irreversibly removes impurities. Heating of the getter material allows for bulk diffusion of the impurities into the metal getter. This process allows for the use of the entire getter media to provide large capacity, unlike ambient catalyst-type purifiers which use only the surface area as active removal sites. PureGuard getter purifiers last up to 40 times longer than comparable size ambient catalyst purifiers.

Suggested Applications

- | | |
|---------------------------------------|-----------|
| • PVD, Sputtering | Ar, N_2 |
| • SiC growth | Ar |
| • Si growth | Ar |
| • Purge for MOCVD | N_2 |
| • Zero gas for analytical instruments | Ar, N_2 |
| • Low temp SiGe, epi | N_2 |



Johnson Matthey
Gas Purification Technology

PureGuard™ Wall Mount Heated Getter Gas Purifiers

Benefits

- No need for regeneration
- Heated unit offers longer life than regenerable media
- Removes all impurities including CH₄ and N₂ to sub ppb levels
- Continues to purify to <1ppb during the longest power failures
- Manufactured by Johnson Matthey, a global technology leader for 190 years

Features

- CE marked
- LED display
- Redundant overtemperature protection
- Stable temperature control
- Manual inlet/outlet isolation valves

Specifications

- Gases purified: Nitrogen, Argon, Helium and other rare gases
- <10 ra electropolished material
- <1 ppb – O₂, H₂O, CO, CO₂, N₂, H₂, THC
- 0.003µm outlet particle retention filters built-in
- All fittings 1/4" VCR, other fittings available upon request
- Maximum operating pressure 250 psig
- Helium leak tested to 2 x 10⁻¹⁰ atm cc/sec
- Voltages: 100 VAC-50/60hz, 120 VAC-50/60hz, 240 VAC-50/60hz
- Pneumatic pressure: 70-120 psig (4.8-8.3 barg); Wall Mount II only

Model	Description	Features	Gas	Maximum Flow Rate
WMA-1-1000	Wall Mount I Heated Getter Purifier	Manual inlet & outlet valves	Argon, rare gases	30 slpm
WMN-1-1000	Wall Mount I Heated Getter Purifier	Manual inlet & outlet valves	Nitrogen	30 slpm
WMA-1-2000	Wall Mount I Heated Getter Purifier	Manual inlet & outlet valves	Argon, rare gases	50 slpm
WMN-1-2000	Wall Mount I Heated Getter Purifier	Manual inlet & outlet valves	Nitrogen	50 slpm
WMA-II-2000	Wall Mount II Heated Getter Purifier	Automatic inlet, outlet & bypass valve, safety enclosure	Argon, rare gases	75 slpm
WMN-II-2000	Wall Mount II Heated Getter Purifier	Manual inlet & outlet valves valve, safety enclosure	Nitrogen	75 slpm

NOTE: For larger flow rates, refer to Wall Mount III or Bulk Heated Getter Purifier Data sheets.



Johnson Matthey
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Johnson Matthey USA

Gas Purification Technology
1397 King Road
West Chester, PA 19380, USA
(800) 624-2204
(610) 232-1900
Fax: (610) 232-1934
www.pureguard.net

Principal Locations:

North America, England,
France, South Korea,
Taiwan, China, Hong Kong,
Japan, Singapore