

Adsorption, Catalyst and Getter based Gas Purifier

흡착 / 촉매 / 게터 방식 고순도 정제기

Gas Purification System



Adsorption, Catalyst, and Getter Beds Purification Technology

The Adsorption, Catalyst, and Getter Purifiers utilize a combination of getter and adsorption-catalytic processes to provide ultra-high purity gas. Outlet impurity levels are reduced to sub-ppb or ppt levels. Two adsorption-catalytic beds (columns, vessels) removes O₂, CO, CO₂ and H₂O while the downstream getter vessel, operated at an elevated temperature, eliminates N₂ and CH₄. Two columns alternate between purification and regeneration modes, providing continuous purification. The purifiers use multiple columns processes designed to provide ultra-high purified gases for semiconductor, flat panel display, LED and solar cell applications, as well as it can be manufactured from high flow rates of 5 to 600 Nm³/h and optionally high pressure up to 200barg(3000psig). Leaders and Global has many years of experience in manufacturing purifiers to meet the needs of low cost, high performance and reliability.

Gas Purified : Argon(Ar), Helium(He), Hydrogen(H₂), Nitrogen(N₂)

Standard Features

- Safety Alarms and Interlock for High Temperature, Over Pressurization
- Safety Relief Kit
- Enhanced PLC Controller and electronics box designed for simple operation and reliability
- All Metal Enclosure
- High efficiency Preheater and Heat Exchanger
- Closed-Loop System for Temperature Control

Optional Features

- Moisture Analyzer
- Auto or Manual Bypass manifold kit
- MFM(Mass Flow Meter)
- UPS(Uninterrupted Power Supply)
- 0.003 μ m Metal Particle Filter
- Isolation Valves and Pressure Transducers on downstream and upstream

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