

# Adsorption and Catalyst based Gas Purifier

흡착 / 촉매 방식 고순도 정제기

## Gas Purification System



### Adsorption and Catalyst Beds Purification Technology

The Gas Purification System providing sub-ppb or ppt performance is designed to remove impurities in a process gas through use of high qualified catalyst & adsorption. These materials provide wholly purification in using dual beds(columns, vessels) without downtime. Two columns alternate between purification and regeneration modes. Outlet impurity levels are reduced to below sub-ppb or ppt concentration. The purifiers uses dual 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 10,000 Nm<sup>3</sup>/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 : Ammonia(NH<sub>3</sub>), Argon(Ar), Helium(He), Hydrogen(H<sub>2</sub>), Nitrogen(N<sub>2</sub>), Oxygen(O<sub>2</sub>)**  
**Rare Gas for Kr, Ne, Xe and Special gases for Cl<sub>2</sub>, CF<sub>4</sub>, C<sub>2</sub>F<sub>6</sub>, SF<sub>6</sub>**

### Standard Features

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

### Optional Features

- Removal of Methane(CH<sub>4</sub>)
- Moisture Analyzer
- Auto or Manual Bypass manifold kit
- MFM(Mass Flow Meter)
- UPS(Uninterrupted Power Supply)
- 0.003 $\mu$ m Metal Particle Filter
- Isolation Valves and Pressure Transducers on downstream and upstream
- Hydrogen Blending(Mixer) Kit

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