



AIR GAS ELECTRONIC MATERIALS ENTERPRISE CO. LTD



GAS PURIFICATION SYSTEMS

GAS PURIFIERS



Helium Gas Purifiers :



- SEMI-S2 compliant
- PLC based control with touch-screen interface for reliable operation & safety with alarm log records for pressure, flow, temperature & status valve with COM port
- Patented catalyst filler to ensure high efficiency of purifier
- High stability of operating pressure
- Regeneration process of purifier can be resume after interruption
- Electrical and instrumental components can be replaced without interruption of purifier operation
- All metal cabinet with doors
- Hydrogen blending station
- Graphical display of on-going process on HMI

Technical Specifications :

- Gas Purified : Helium
- Impurities Removed : H_2O , O_2 , CO , CO_2 , H_2 , N_2
- Flow Rates : 10 - 200 Nm³/hr **
- Max. Pressure Drop : 0.5 bar
- Max Particle count : < 0.03 micro-meter
- Hardware interlock for high temperatures
- Electric gas preheaters

*** For higher flow purifiers, consult AGEM sales office*

GAS PURIFIERS



Technical Specifications :

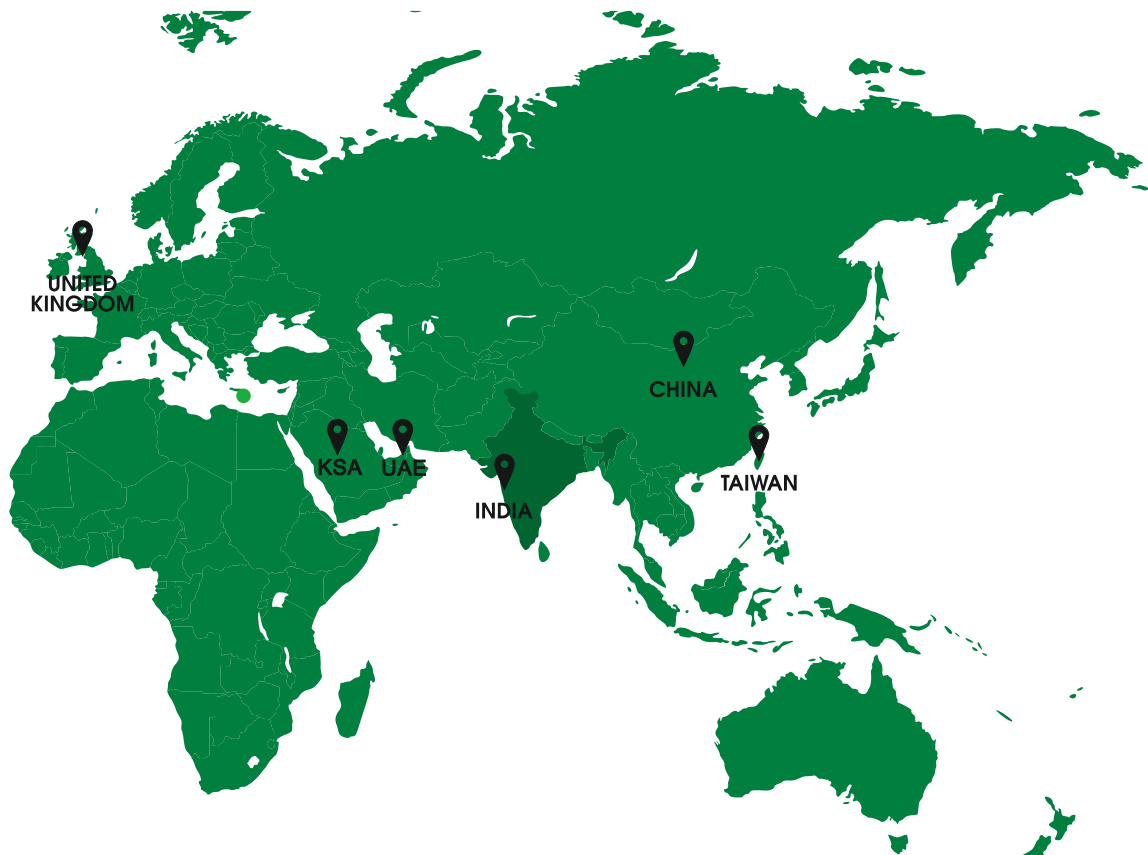
Type	Rare Gas Purifier		Model No. PR-R	
Parameter	Input	Output	Remarks	
Gas	Flow (Nm ³ /hr)	30	30	10 – 200 Nm ³ /hr
	Pressure (MPa)	1.0	> 0.95	ΔP < 0.05
	Temperature (°C)			
	Purity (in ppb)	5N	8N	
	O ₂	≤ 1000	≤ 1	
	CO	≤ 1000	≤ 1	
	CO ₂	≤ 1000	≤ 1	
	CH ₄	NA	NA	
	H ₂	≤ 1000	≤ 1	
	H ₂ O	≤ 2530	≤ 1	
	Particle	---	≤ 0.03 μm	
Operation	Operating Mode	Intelligent auto-operation		
	Switching Cycle	~ 240 hr		
	Regeneration time	~ 12 hr		
	Regen Gas	5N Nitrogen (8%) and 5N Hydrogen (2%)		
	Voltage	380 VAC		
	Power Consumption	Purifier: 380 VAC, 3 Phase Control PLC: 220 VAC, Single Phase		
	Cooling Water	---		
Equipment Size		L*W*H (mm) : 800*700*1500 (for 30 Nm ³ /hr model)		
Equipment Weight		~ 400 Kg (for 30 Nm ³ /hr model)		
End Connections	Gas Inlet	1/4" MVCR	Gas Outlet	1/4" MVCR
	Analytical Port	1/4" MVCR	Pneumatic	1/4" LOK
	Vent Outlet	1/4" MVCR	Vent Outlet	1/4" MVCR

Enclosed Documents :

- Installation Drawings
- Mechanical & Electrical Drawings
- Operation & Installation Manual
- Spares Manual
- Quality Documentation (Calibration, Testing Certificates etc.)



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