Ultra High Purity Compact Gas Purifier



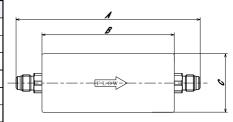
- ●Use point impurity such as water, oxygen and hydrocarbon included in inactive or special gas removed down to 1PPB or less under certain conditions.
- SUS316L used as standard material for rough filtration media not generating particle by corrosion or chemical reaction.
- ●Water included in high corrosion special gas such as HBr and HCl removed up to 100PPB (detection limit of analysis equipment) or less under certain conditions.
- Same small size and light weight as GP-05 filter with 84mm face-to-face dimension and 120g in weight.
- ●Usable until complete lifetime by reactivation process by baking at 350°C to 400°C depending on gas type.

Specification					
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Refining Performance	Each impurity: max. 1PPB or less ,Total of impurity on outlet side: max. 10PPB or less (depending on the condition)
Material	Housing: SUS316L Electrochemical polishing R max 0.7μ m or less, Filter media: SUS316L, Refining agent: metal getter etc.
Flow Rate Range 0.5LPM to 20LPM (varies depending on model / pressure condition)	
Max. Operating Pressure	0.97MPa (140.65PSIG)
Operating Temperature	Room temperature or 350 to 400°C (varies depending on the application)
External Leakage	2×10 ⁻¹¹ Pa·m³/sec or less
Joint	1/4",3/8" VCR®,Swagelok®

Dimensions

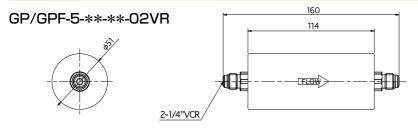
Model	A(mm)	B(mm)	C(mm)	Recommended Flow Rate (L/min)	Lifetime (Flow Rate) ※
GP-05	84	38	25	0.1 to 0.5	Approximately one year (at 0.2LPM)
GP-1	84	38	38	0.1 to 1.0	Approximately one year (at 0.5LPM)
GP-2	122	76	38	0.2 to 2.0	Approximately one year (at 1LPM)
GP-5	160	114	51	1 to 5	Approximately one year (at 3LPM)
GP-10	224	178	51	2 to 10	Approximately one year (at 5LPM)
GP-20	317	272	63	5 to 20	Approximately one year (at 10LPM)

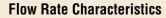


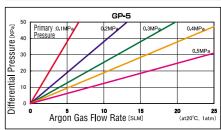
% Breakthrough above is when total impurity from inlet port (primary side) is assumed to be 10PPM, and reactivation process is required during this period.

Gas purifier

Dimensional Outline Drawings







Guaranteed Refining Value

Specification	Gas to be Refined	Refined Impurity		Guaranteed Refining Value
		H ₂ O,O ₂ ,C	02	1PPB or less (at room temperature)
Inactive Gas	He,Ne,Ar,Kr,Xe	H ₂ O,O ₂ ,C	0,C02,N2,THC	1PPB or less (at heating)
		Total of im	purity on outlet (secondary) side	10PPB or less (8LOGS)
For Nitrogen Gas		H2O,O2,C	02	1PPB or less (at room temperature)
1 of Miliogon das	N ₂	H2O,O2,C	0,C0 ₂ ,THC	1PPB or less (at heating)
For Hydrogen Gas	Llo Ar/Llo No // lo	H ₂ O,O ₂ ,C	02	1PPB or less (at room temperature)
	H ₂ ,Ar/H ₂ ,N ₂ /H ₂	H ₂ O,O ₂ ,C	0,C02,N2,THC	1PPB or less (at heating)
For Hydroid Gas For Freon Gas	SiH4,Si2H6,SiH2Cl2,AsH3,PH3,NH3,B2H6 H2S,H2Se,GeH4,Ge2H6,CH4,CF4,CCl4,SF6	H2O,O2,C	02	10PPB or less (at room temperature)
For Oxygen Gas		Single	H2O	100PPB or less (at room temperature)
For oxygen gas purifier, single type	O ₂ .Air	Single	CO2	10PPB or less (at room temperature)
	02,741	dual	H2O	100PPB or less (at heating)
and dual type are prepared.			H2,C0,C02	10PPB or less (at heating)
For Corrosive Gas	HBr,HCl,BCl3,BF3,Cl2	H2O		100PPB or less (at room temperature)

%For purity analysis of corrosive gas, FT-IR was used (detection limit 100PPB).

 $\%\mbox{Guaranteed}$ values above are when total of impurity on inlet side is 10PPM or less.

How to Order

