

GateKeeper® GPU Gas Purifiers Corrosive Gases

Superior purity control

Entegris' GateKeeper® GPU corrosive gas purifiers are designed to improve purity consistency, lifetime, and final purity. Leveraging its expertise in material science, Entegris has developed a new generation of corrosive purification products that deliver unsurpassed value and performance.



FEATURES & BENEFITS

Process control and protection	<ul style="list-style-type: none">Purity control to low ppb levelsSuperior corrosion resistant materials of constructionLow pressure drop across the purifierOutlet purity validated in actual process gasCE certified to the Pressure Equipment Directive (PED) and manufactured in an ISO® 9001:2000 facility
Cost effective	<ul style="list-style-type: none">Long lifetime – improved cost of ownership
Safe and simple to use	<ul style="list-style-type: none">Uses ambient temperature purification – no heat or power required to operate

GENERAL SPECIFICATIONS

Materials of construction (housing)	316L stainless steel electropolished		
Gases purified	CX: HCl, Cl ₂ BX: HBr FX: HF		
Purity performance	MEDIA SERIES	CONTAMINANTS REMOVED	OUTLET PURITY
	CX	Hydrocarbons (toluene)	<1 ppt in N ₂
		Fe, Ni, Mo, Cr, Mn	<14 ppt in HCl
		H ₂ O	<15 ppb in HCl
	BX	H ₂ O	<50 ppb in HBr
	FX	H ₂ O	<1 ppb in N ₂
Outlet particle filtration type	Wafergard® nickel		
Outlet particle retention	From 3 to 6 LRV*, depending on model, for particles larger than 0.003 micron		
Outlet filtration removal rating	GPU35 to GPU10M: 0.003 micron GPU13M to GPU17M: 20 micron		
Lifetime	One year at specified nominal flow rate with 1ppm inlet challenge of moisture		
Operating temperature	0°–65°C (32°–149°F)		
Leak rating	1 × 10 ⁻⁹ atm cc/sec		

*Referenced as most penetration particle size.

OPERATING SPECIFICATIONS

Model	Maximum flow rate (slpm)	Nominal flow rate (slpm)	Maximum operating pressure (psig) purifier only ¹	Maximum operating pressure (psig) purifier with options ²	Pressure drop (psid @ max. rate flow and 90 psig inlet pressure)
GPU 35	1	1	2,000	250	4
GPU70	5	3	2,000	250	4
GPU 80	10	3.5	2,000	250	4
GPU 200	20	9	800	250	7
GPU 300	50	13.5	800	250	7
GPU 500	75	27	500	250	7
GPU 700	120	38	600	250	7
GPU 2500 4R	300	128	505	250	8
GPU 2500 8R	500	128	505	250	8
GPU 10M 8R	1000	475	370	250	12
GPU 10M 12R	1000	475	370	250	12
GPU 13M 12R	2000	613	370	250	7
GPU 13M 16R	2500	613	370	250	7
GPU 17M 12R	2000	765	370	250	9
GPU 17M 16R	2500	765	370	250	9

¹Optimal operating pressure is 1 atm (14.7 psia)

²Pressure limited by standard isolation valves. Higher pressure valves available on request.

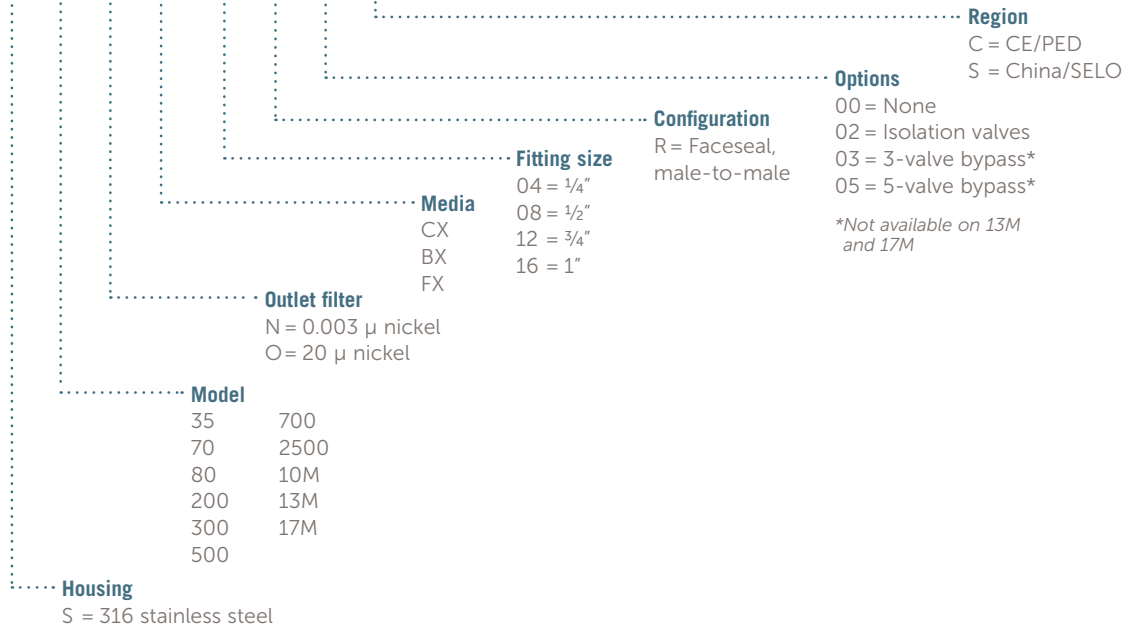
FACILITY SPECIFICATIONS

GPU model	Fitting size	Fitting type (face seal)	Approximate weight	Overall length	Body diameter	Filtration @ max. flow
GPU35	¼"	male/male	0.7 lb	3.31"	1.5"	6 lrv
GPU70	¼"	male/male	0.7 lb	4.5"	1.5"	6 lrv
GPU80	¼"	male/male	0.7 lb	5"	1.5"	6 lrv
GPU200	¼"	male/male	1.5 lb	6.2"	2"	6 lrv
GPU300	¼"	male/male	2.2 lb	8.2"	2"	6 lrv
GPU500	¼"	male/male	4 lb	7.9"	3"	3 lrv
GPU700	¼"	male/male	5.5 lb	10"	3"	3 lrv
GPU2500 4R	¼"	male/male	13.9 lb	17.3"	4"	3 lrv
GPU2500 8R	½"	male/male	13.9 lb	17.5"	4"	3 lrv
GPU10M 8R	½"	male/male	44 lb	29"	6"	3 lrv
GPU10M12R	¾"	male/male	49 lb	29.5"	6"	3 lrv
GPU13M 12R	¾"	male/male	53 lb	35.1"	6"	3 lrv
GPU13M 16R	1"	male/male	57 lb	35.4"	6"	3 lrv
GPU17M 12R	¾"	male/male	73 lb	42.7"	6"	3 lrv
GPU17M 16R	1"	male/male	77 lb	42.9"	6"	3 lrv

ORDERING INFORMATION

GateKeeper GPU Gas Purifier: part number

GPUS N R A



LIMITED WARRANTY

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