

GateKeeper® GPU 35 4R Gas Purifiers

Superior purity control

Entegris' GateKeeper® GPU gas purifiers were designed to improve purity consistency, lifetime and final purity. Leveraging its expertise in material science, Entegris has developed a new generation of purification products that deliver unsurpassed value and performance. The model 35 is designed for peak flow rates up to 1 slpm.

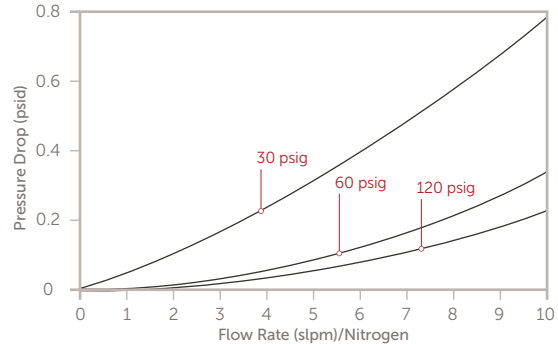


FEATURES & BENEFITS

Process control and protection	<p>Purity control to ppt levels</p> <p>Low pressure drop across the purifier</p> <p>CE certified to the Pressure Equipment Directive (PED) and manufactured in an ISO® 9001:2000 facility</p>
Cost effective	<p>Regenerable – eliminates disposal issues and costs</p> <p>Long lifetime – improved cost of ownership</p>
Safe and simple to use	<p>Use ambient temperature purification – no heat or power required to operate</p> <p>Insensitive to orientation (horizontal/vertical)</p>

PERFORMANCE DATA

Pressure Drop vs. Gas Flow Rate*



*The flow rate displayed on this graph may exceed maximum flow rate specification of the purifier model referenced in this data sheet. Please refer to maximum flow rate in the specifications section of this data sheet.

Note: Pressure drop may vary depending on media type.

SPECIFICATIONS

Materials of construction (housing)	316L stainless steel, electropolished
Particle filtration type	Wafergard® – 316L stainless steel membrane
Particle retention	Up to 6 LRV* for particles larger than 0.003 µm
Filtration removal rating	≥0.003 µm
Operating temperature	0– 65°C (32 – 149°F)
Fitting size and type	¼" gasket seal**
Fitting configuration	Male-to-male
Operating pressure	1.01 barg – 96.5 barg (0 psig – 1400 psig)
Maximum flow rate	1 slpm
Leak rating	1 × 10 ⁻⁹ atm cc/sec
Dimensions	84 mm (3.31") L × Ø38 mm (1.5")
Approximate weight	0.3 kg (0.7 lb)

*Referenced as most penetration particle size.

**Also referred to as VCR® or face seal.

AVAILABLE MEDIA

Media	Gases purified	Contaminants removed	Outlet purity	Nominal flow rate ³
HX	H ₂ , N ₂ , Noble gases, H ₂ /N ₂ , H ₂ /Noble gases	H ₂ O, O ₂ , CO, CO ₂	<100 ppt in H ₂ and N ₂	1.7 slpm
IX	N ₂ , Noble gases	H ₂ O, O ₂ , CO, CO ₂ , H ₂	<100 ppt in Ar and N ₂	0.8 slpm
	Freon ¹ 13, 14, 23, 41, 116, 218	H ₂ O, O ₂		
TX	CDA, N ₂ , Noble gases, CO ₂ , NH ₃	Condensable organics (as Toluene)	<1 ppt	0.37 slpm ⁴
		Non-condensable organics ² (as Butane)	<5 ppt	
		Refractory compounds (as HMDSO)	<1 ppt	
WX	CDA, H ₂ , N ₂ , Noble gases, CO ₂ , NH ₃ , AsH ₄ , PH ₄ , GeH ₄ , SiH ₄	H ₂ O	<100 ppt in N ₂	7 slpm ⁵
			<12 ppb in NH ₃	

¹ Removal of H₂O and O₂ only.

² Consult Entegris with specific non-condensable contaminants.

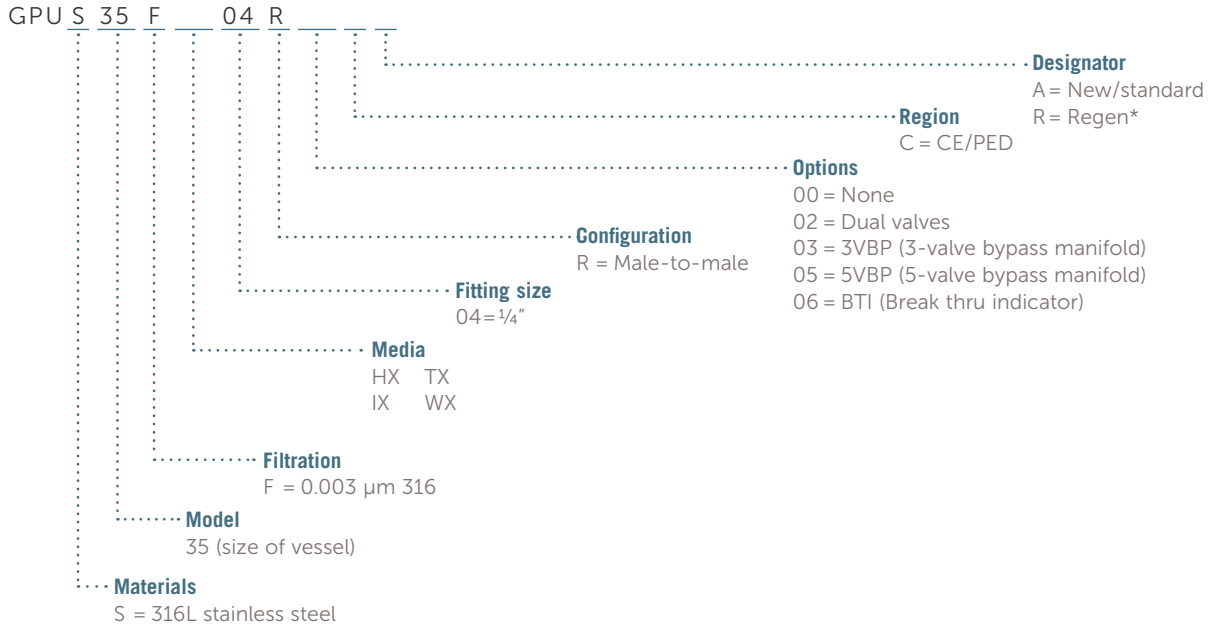
³ With a 1 ppm H₂O impurity inlet challenge

⁴ With a 1 ppm Toluene impurity inlet challenge over 1 year

⁵ Lifetime will exceed 1 year at its maximum flow rate

ORDERING INFORMATION

GateKeeper 35 4R Gas Purifiers: part number



*Contact Entegris to determine if the purifier is designed for regeneration.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the Contact Us link to find the customer service center nearest you.

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