

### ELIMINATOR™ CG

Room Temperature Purifier for Inert Gases

#### FEATURES



- ◆ Removal of impurities to <0.5 ppb<sup>1</sup>
- ◆ Removes *all* hydrocarbons, including CH<sub>4</sub>
- ◆ No heaters or power required
- ◆ Room-temperature operation
- ◆ 316L SS (<10 Ra EP) vessel
- ◆ Factory regenerable for up to 10 year life
- ◆ Field regenerable for up to 10 year life
- ◆ Improved process equipment performance
- ◆ Optional built-in 0.003 µm filter (PF type)
- ◆ High Flow - up to 2500 slpm
- ◆ Low cost (initial and operating)

#### APPLICATIONS

- ◆ Zero-Hydrocarbon UHP Gas Purge
- ◆ APIMS Zero and Calibration
- ◆ Semiconductor Process Equipment
- ◆ Gas Cylinder Cabinets
- ◆ Gas Analyzer Carts
- ◆ Analytical Industry
- ◆ Research and Development

NuPure's Eliminator™ CG Gas Purifier is designed to purify Inert Gases (Nitrogen or Noble Gases) to state-of-the-art purity, using a **patented** design and process. It removes **all** hydrocarbons (including methane), and all other gaseous impurities found in Inert gases, to PPT levels using *room temperature operation*. The Eliminator™ CG is ideal for **critical process and purging** applications.

The NuPure™ Eliminator™ CG contains a new patented combination of catalyst and metal getter. It contains no hydrocarbon or sulfur compounds. The Eliminator™ CG Purifier incorporates a new unique internal filter design combined with a short purifier geometry, allowing a **very high flow** combined with a **very low pressure drop**.

The Eliminator™ CG gas purifiers come in standard size ranges from 0 to 2500 slpm. The use of optional factory-installed inlet isolation valve (shown in photo) is recommended for elimination of possible operator error during installation. Optional high Cv valves are available to ensure a low system pressure drop.

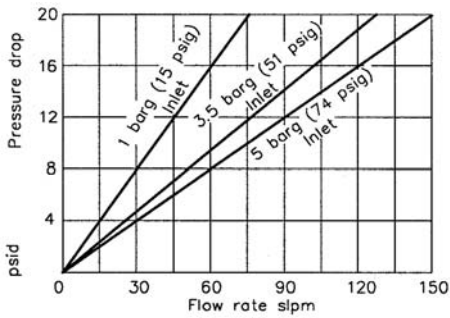
#### IMPURITIES REMOVED<sup>1</sup>

Gas	Version	H <sub>2</sub> O	O <sub>2</sub>	CO <sub>2</sub>	CO	H <sub>2</sub>	NMHCs	CH <sub>4</sub>	Particles
N <sub>2</sub>	PF or XL	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<1.0 ppb	0.003 µm or 1 µm
Noble	PF or XL	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<1.0 ppb	0.003 µm or 1 µm

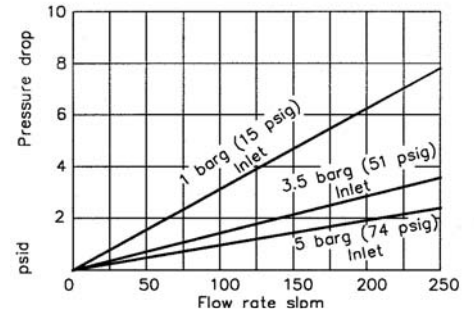
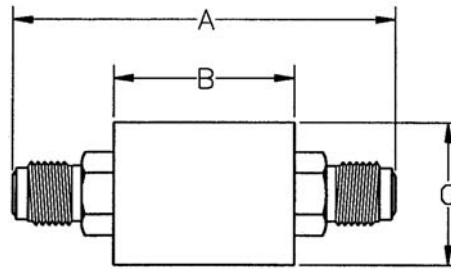
<sup>1</sup> - Based on a VLSI Grade Liquid Gas source. Nitrogen not removed from noble gases. Removal of nitrogen can be accomplished using **heated getter** purifiers. See brochures for NuPure™ PF Series® and Omni™ Series Gas Purifiers.

# ELIMINATOR™ CG

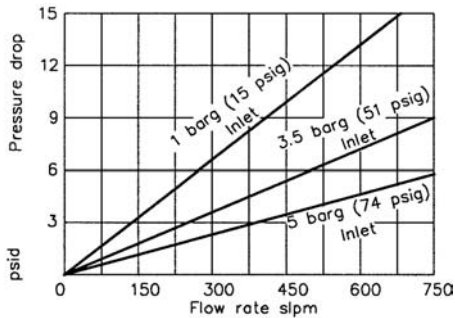
## Dimensional and Performance Specifications



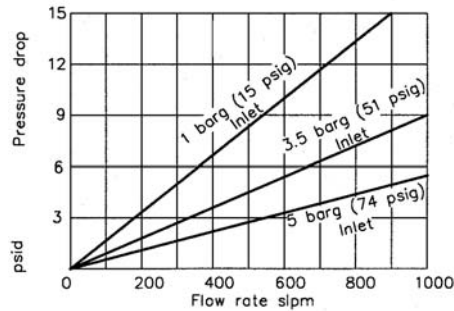
Models 1200 CG and 3000 CG (VR4)



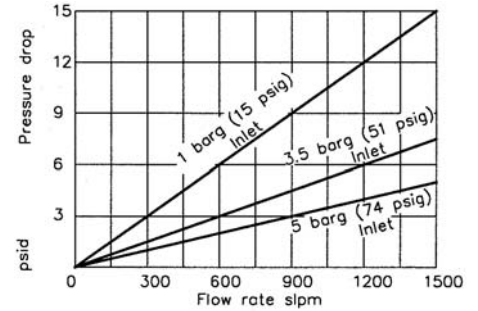
Models 3000 CG (VR2) and 5000 CG



Model 10000 CG



Model 15000 CG



Model 25000 CG

Purifier Model	A in (mm)	B in (mm)	C in (mm)	Particle Filtration Level	Max Flow	Part Number
Mini CG	4.5 (114)	2.7 (69)	1.0 (25)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	4 slpm	00040-CG-VR4-PF <sup>1</sup> or XL
100 CG	4.5 (114)	2.7 (69)	1.5 (38)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	12 slpm	00100-CG-VR4-PF <sup>1</sup> or XL
200 CG	6.0 (152)	4.2 (107)	1.5 (38)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	25 slpm	00200-CG-VR4-PF <sup>1</sup> or XL
500 CG	7.9 (202)	6.1 (156)	2.0 (51)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	50 slpm	00500-CG-VR4-PF <sup>1</sup> or XL
600 CG	8.2 (208)	6.5 (167)	2.0 (51)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	75 slpm	00600-CG-VR4-PF <sup>1</sup> or XL
1000 CG <sup>2</sup>	12.9 (328)	11.1 (282)	2.0 (51)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	85 slpm	01000-CG-VR4-PF <sup>1</sup> or XL
1200 CG	7.9 (202)	6.1 (156)	3.0 (76)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	150 slpm	01200-CG-VR4-PF <sup>1</sup> or XL
2000 CG	17.7 (449)	15.9 (402)	2.5 (63)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	250 slpm	02000-CG-VR4-PF <sup>1</sup> or XL
3000 CG	17.3 (439)	15.5 (394)	3.0 (76)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	300 slpm	03000-CG-VR4-PF <sup>1</sup> or XL
3000 CG	17.7 (449)	15.6 (396)	3.0 (76)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	500 slpm	03000-CG-VR2-PF <sup>1</sup> or XL
5000 CG <sup>3</sup>	25.3 (643)	23.2 (590)	3.0 (76)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	850 slpm	05000-CG-VR2-PF <sup>1</sup> or XL
10000 CG <sup>3</sup>	35.9 (913)	33.8 (860)	4.0 (101)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	1200 slpm	10000-CG-VR2-PF <sup>1</sup> or XL
15000 CG <sup>3</sup>	35.9 (913)	33.8 (860)	5.0 (127)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	1800 slpm	15000-CG-VR2-PF <sup>1</sup> or XL
25000 CG <sup>3</sup>	35.9 (913)	33.8 (860)	6.0 (152)	0.003 $\mu\text{m}^1$ or 1 $\mu\text{m}$	2500 slpm	25000-CG-VR2-PF <sup>1</sup> or XL

<b>Maximum Pressure</b>	250 psig (USA) / 9.9 kg/cm <sup>2</sup> G (Japan)	<b>Materials</b>	316L SS (<10 Ra EP)
<b>Operating Temperature</b>	Room Temperature	<b>Fittings</b>	1/4" MVCR <sup>4</sup> available on sizes Mini-3000
<b>Leak Rate</b>	<2 x 10 <sup>-9</sup> atm cc/sec He		1/2" MVCR <sup>4</sup> available on sizes 600-25000

1 - Sub-micron filtration only with PF version.

2 - For model 1000 dimension "A" has changed from 12.1 in to 12.9 in, dimension "B" has changed from 10.3 in to 11.1 in.

3 - For models 5000 and larger - printed dimensions are subject to future change. Please check with factory prior to ordering.

4 - VCR-compatible standard. VCR is Registered Trademark of Cajon Corporation. Special fittings on request.

**NuPure III**

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