

### ELIMINATOR™ CA

#### Room Temperature Purifiers for Inert Gases and Hydrogen

### FEATURES



NuPure™ Eliminator™ Model 600 CA

- ◆ Removal of impurities to <1 ppb
- ◆ 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
- ◆ Lowest cost (initial and operating)

NuPure's Eliminator™ CA Gas Purifiers reduce gaseous impurities to sub-ppb levels at room temperature operation. The Eliminator™ removes H<sub>2</sub>O, O<sub>2</sub>, CO, CO<sub>2</sub>, H<sub>2</sub> and NMHC's to <1 ppb from any inert gas (Nitrogen, Argon, Helium, Krypton, Neon and Xenon) and H<sub>2</sub>O, O<sub>2</sub> and CO<sub>2</sub> from Hydrogen. They are ideally suited to purifying gases from liquid sources.

### APPLICATIONS

- ◆ Semiconductor Industry
- ◆ High Purity Welding
- ◆ Inert Gas Purge
- ◆ Gas Cylinder Cabinets
- ◆ Gas Analyzer Carts
- ◆ Research and Development

The NuPure™ Eliminator™ Catalyst/Absorber (CA) chemistry represents a major improvement over catalyst-only purifiers. For example, the moisture capacity of the NuPure™ Model 600 CA is more than *twice* the moisture capacity of the Aeronex Model 500!

The NuPure Eliminator™ CA gas purifiers come in standard size ranges from 0 to 2500 slpm, with the high-flow purifier versions especially suitable for applications such as welding or purging. The use of optional factory-installed inlet isolation valve (shown in photo) is recommended for elimination of possible operator error during installation.

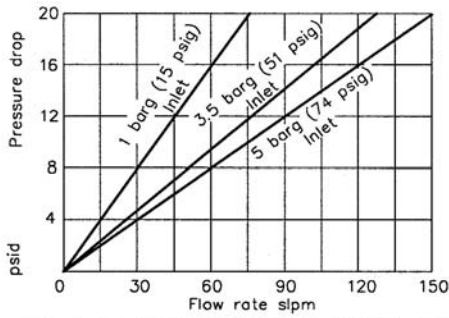
#### IMPURITIES REMOVED

Gas	Version	H <sub>2</sub> O	O <sub>2</sub>	CO <sub>2</sub>	CO	N <sub>2</sub>	H <sub>2</sub>	NMHCs	Particles
N <sub>2</sub>	PF or XL	<1 ppb	<1 ppb	<1 ppb	<1 ppb	-	<1 ppb	<1 ppb	0.003 µm or 1 µm
Noble	PF or XL	<1 ppb	<1 ppb	<1 ppb	<1 ppb	N / R <sup>1</sup>	<1 ppb	<1 ppb	0.003 µm or 1 µm
H <sub>2</sub>	PF or XL	<1 ppb	<1 ppb	<1 ppb	N / R <sup>1</sup>	N / R <sup>1</sup>	-	<1 ppb	0.003 µm or 1 µm

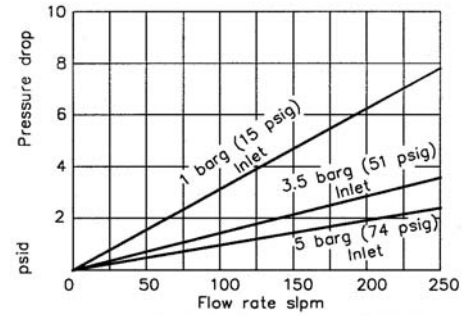
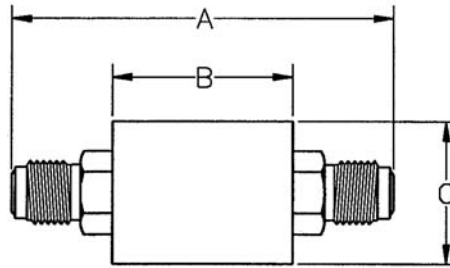
<sup>1</sup> - N / R = Not Removed. Removal of all impurities can be accomplished using **heated getter** gas purifiers. See brochures for NuPure™ PF Series® and Omni™ Series Gas Purifiers.

# NuPure™ ELIMINATOR™ CA

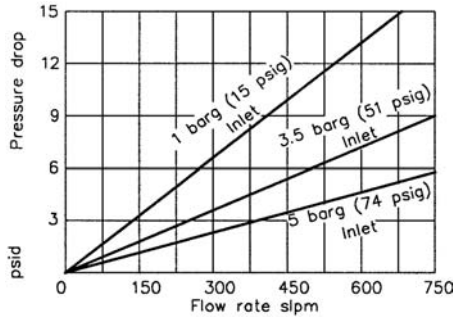
## Dimensional and Performance Specifications



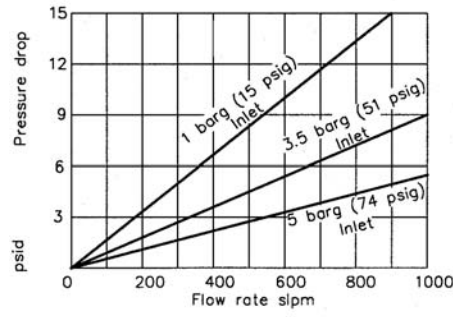
Models 1200 CA and 3000 CA (VR4)



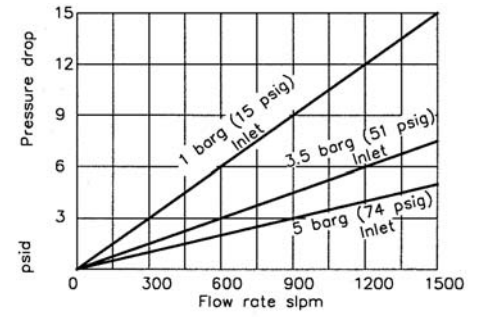
Models 3000 CA (VR2) and 5000 CA



Model 10000 CA



Model 15000 CA



Model 25000 CA

Purifier Model	A in (mm)	B in (mm)	C in (mm)	Particle Filtration Level	Max Flow	Part Number <sup>2</sup>
Mini CA	4.5 (114)	2.7 (69)	1.0 (25)	0.003 μm <sup>1</sup> or 1 μm	4 slpm	00040-CA-VR4-GAS-PF <sup>1</sup> or XL
100 CA	4.5 (114)	2.7 (69)	1.5 (38)	0.003 μm <sup>1</sup> or 1 μm	12 slpm	00100-CA-VR4-GAS-PF <sup>1</sup> or XL
200 CA	6.0 (152)	4.2 (107)	1.5 (38)	0.003 μm <sup>1</sup> or 1 μm	25 slpm	00200-CA-VR4-GAS-PF <sup>1</sup> or XL
500 CA	7.9 (202)	6.1 (156)	2.0 (51)	0.003 μm <sup>1</sup> or 1 μm	50 slpm	00500-CA-VR4-GAS-PF <sup>1</sup> or XL
600 CA	8.2 (208)	6.5 (167)	2.0 (51)	0.003 μm <sup>1</sup> or 1 μm	75 slpm	00600-CA-VR4-GAS-PF <sup>1</sup> or XL
1000 CA <sup>3</sup>	12.9 (328)	11.1 (283)	2.0 (51)	0.003 μm <sup>1</sup> or 1 μm	125 slpm	01000-CA-VR4-GAS-PF <sup>1</sup> or XL
1200 CA	7.9 (202)	6.1 (156)	3.0 (76)	0.003 μm <sup>1</sup> or 1 μm	150 slpm	01200-CA-VR4-GAS-PF <sup>1</sup> or XL
2000 CA	17.7 (449)	15.9 (402)	2.5 (63)	0.003 μm <sup>1</sup> or 1 μm	250 slpm	02000-CA-VR4-GAS-PF <sup>1</sup> or XL
3000 CA	17.3 (439)	15.5 (394)	3.0 (76)	0.003 μm <sup>1</sup> or 1 μm	300 slpm	03000-CA-VR4-GAS-PF <sup>1</sup> or XL
3000 CA	17.7 (449)	15.6 (396)	3.0 (76)	0.003 μm <sup>1</sup> or 1 μm	500 slpm	03000-CA-VR2-GAS-PF <sup>1</sup> or XL
5000 CA <sup>4</sup>	25.3 (643)	23.2 (590)	3.0 (76)	0.003 μm <sup>1</sup> or 1 μm	850 slpm	05000-CA-VR2-GAS-PF <sup>1</sup> or XL
10000 CA <sup>4</sup>	35.9 (913)	33.8 (860)	4.0 (101)	0.003 μm <sup>1</sup> or 1 μm	1200 slpm	10000-CA-VR2-GAS-PF <sup>1</sup> or XL
15000 CA <sup>4</sup>	35.9 (913)	33.8 (860)	5.0 (127)	0.003 μm <sup>1</sup> or 1 μm	1800 slpm	15000-CA-VR2-GAS-PF <sup>1</sup> or XL
25000 CA <sup>4</sup>	35.9 (913)	33.8 (860)	6.0 (152)	0.003 μm <sup>1</sup> or 1 μm	2500 slpm	25000-CA-VR2-GAS-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>5</sup> available on sizes Mini-3000	
<b>Leak Rate</b>	<2 x 10 <sup>-9</sup> atm cc/sec He				1/2" MVCR <sup>5</sup> available on sizes 600-25000	

1 - Sub-micron filtration only with PF version. 2 - Instead of "GAS" put "I" for Inert Gases (e.g. 00600-CA-VR4-I-PF), or "H2" (e.g. 01000-CA-VR4-H2-PF) for Hydrogen or Hydrogen Mixes (e.g. N<sub>2</sub>/H<sub>2</sub>, Ar/H<sub>2</sub>).

3 - 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.

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

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

**NuPure III**

67 Iber Road, Unit 107,  
Ottawa ON K2S 1E7 Canada  
Tel: (613) 836-0336 Fax: (613) 836-0297  
E-mail: sales@nupure.com Web-site: www.nupure.com

Or Contact: