

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 H₂O, O₂, CO, CO₂, H₂ and NMHC's to <1 ppb from any inert gas (Nitrogen, Argon, Helium, Krypton, Neon and Xenon) and H₂O, O₂ and CO₂ from Hydrogen. They are ideally suited to purifying gases from liquid sources.

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.

APPLICATIONS

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

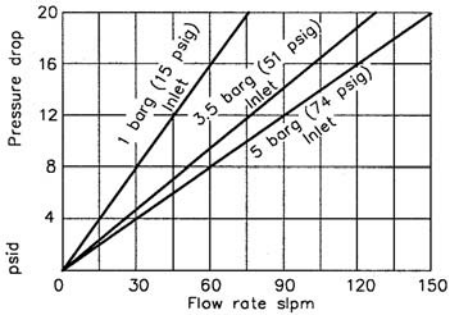
IMPURITIES REMOVED

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

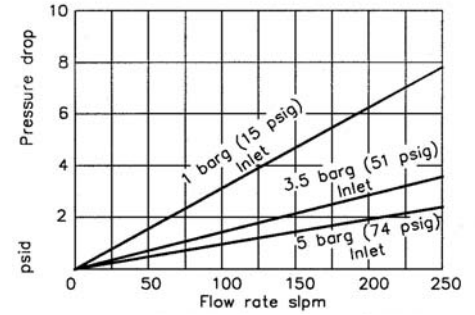
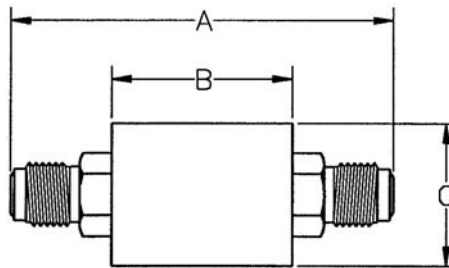
1 - N / R = Not Removed. Removal of all impurities can be accomplished using **heated getter** gas purifiers. See brochures for NuPure™ PF Series® and Omni™ Series Gas Purifiers.

NuPure™ ELIMINATOR™ CA

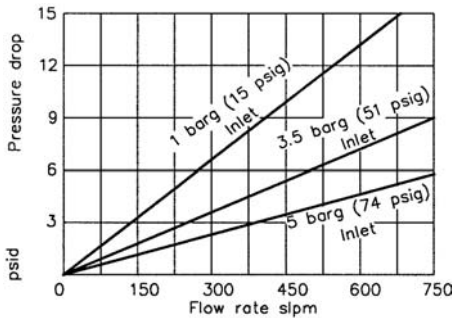
Dimensional and Performance Specifications



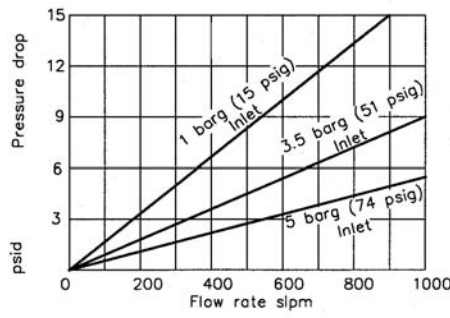
Models 1200 CA and 3000 CA (VR4)



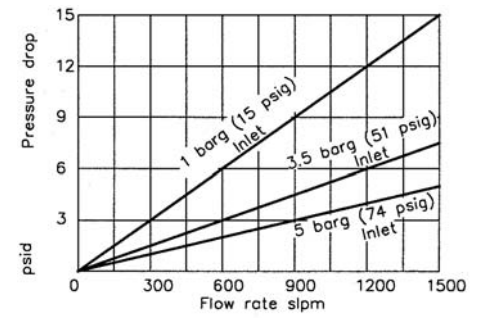
Models 3000 CA (VR2) and 5000 CA



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 ²
Mini CA	4.5 (114)	2.7 (69)	1.0 (25)	0.003 μm ¹ or 1 μm	4 slpm	00040-CA-VR4-GAS-PF ¹ or XL
100 CA	4.5 (114)	2.7 (69)	1.5 (38)	0.003 μm ¹ or 1 μm	12 slpm	00100-CA-VR4-GAS-PF ¹ or XL
200 CA	6.0 (152)	4.2 (107)	1.5 (38)	0.003 μm ¹ or 1 μm	25 slpm	00200-CA-VR4-GAS-PF ¹ or XL
500 CA	7.9 (202)	6.1 (156)	2.0 (51)	0.003 μm ¹ or 1 μm	50 slpm	00500-CA-VR4-GAS-PF ¹ or XL
600 CA	8.2 (208)	6.5 (167)	2.0 (51)	0.003 μm ¹ or 1 μm	75 slpm	00600-CA-VR4-GAS-PF ¹ or XL
1000 CA ³	12.9 (328)	11.1 (283)	2.0 (51)	0.003 μm ¹ or 1 μm	125 slpm	01000-CA-VR4-GAS-PF ¹ or XL
1200 CA	7.9 (202)	6.1 (156)	3.0 (76)	0.003 μm ¹ or 1 μm	150 slpm	01200-CA-VR4-GAS-PF ¹ or XL
2000 CA	17.7 (449)	15.9 (402)	2.5 (63)	0.003 μm ¹ or 1 μm	250 slpm	02000-CA-VR4-GAS-PF ¹ or XL
3000 CA	17.3 (439)	15.5 (394)	3.0 (76)	0.003 μm ¹ or 1 μm	300 slpm	03000-CA-VR4-GAS-PF ¹ or XL
3000 CA	17.7 (449)	15.6 (396)	3.0 (76)	0.003 μm ¹ or 1 μm	500 slpm	03000-CA-VR2-GAS-PF ¹ or XL
5000 CA ⁴	25.3 (643)	23.2 (590)	3.0 (76)	0.003 μm ¹ or 1 μm	850 slpm	05000-CA-VR2-GAS-PF ¹ or XL
10000 CA ⁴	35.9 (913)	33.8 (860)	4.0 (101)	0.003 μm ¹ or 1 μm	1200 slpm	10000-CA-VR2-GAS-PF ¹ or XL
15000 CA ⁴	35.9 (913)	33.8 (860)	5.0 (127)	0.003 μm ¹ or 1 μm	1800 slpm	15000-CA-VR2-GAS-PF ¹ or XL
25000 CA ⁴	35.9 (913)	33.8 (860)	6.0 (152)	0.003 μm ¹ or 1 μm	2500 slpm	25000-CA-VR2-GAS-PF ¹ or XL

Maximum Pressure	250 psig (USA) / 9.9 kg/cm ² G (Japan)	Materials	316L SS (<10 Ra EP)
Operating Temperature	Room Temperature	Fittings	1/4" MVCR ⁵ available on sizes Mini-3000
Leak Rate	<2 x 10 ⁻⁹ atm cc/sec He		1/2" MVCR ⁵ 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. N₂/H₂, Ar/H₂).
- 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.

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