

ELIMINATOR™ CAG

Room Temperature Purifiers for Inert Gases



NuPure™ Eliminator™ Model 600 CAG

FEATURES

- ◆ Removal of impurities to <0.5 ppb¹
- ◆ No heaters or power required
- ◆ Room-temperature operation
- ◆ 316L SS (<10 Ra EP) vessel
- ◆ Factory/Field regenerable for up to 10 year life - *no need for H₂ in regeneration gas*
- ◆ Improved process equipment performance
- ◆ Optional built-in 0.003 µm filter (PF type)
- ◆ High Flow - up to 300 slpm
- ◆ Low cost (initial and operating)

APPLICATIONS

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

The NuPure™ Eliminator™ CAG uses a new, patented Catalyst/Absorber/Getter (CAG) purifier technology, which represents a major improvement over all other inert gas chemistries. This results in the best outlet purity guarantees of <0.5 ppb¹ per impurity². The CAG purifiers achieve this outstanding performance at *room temperature*. They are ideally suited to purifying inert gases from liquid sources.

The NuPure™ Eliminator™ CAG gas purifiers come in standard size ranges from 0 to 300 slpm, with the XL version especially suitable for high flow applications. The use of factory-installed inlet isolation valve is recommended for ease of installation, and elimination of possible operator error.

With the purchase of the newly-introduced Field Regeneration Kit, the purifier's operating cost can be reduced to almost zero. Field regeneration is particularly simple and convenient because the CAG can be regenerated *without need for hydrogen!*

IMPURITIES REMOVED¹

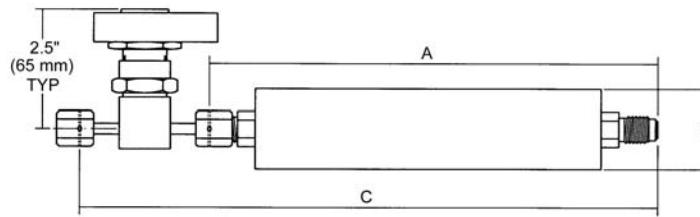
Gas	Version	H ₂ O	O ₂	CO ₂	CO	H ₂	NMHCs	CH ₄	Particles ²
N ₂	PF or XL	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	< 1 pcf down to 0.01 µm
Noble	PF or XL	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	< 1 pcf down to 0.01 µm

1 - Based on 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.

2 - Particle removal is guaranteed with PF version only

NuPure™ ELIMINATOR™ CAG

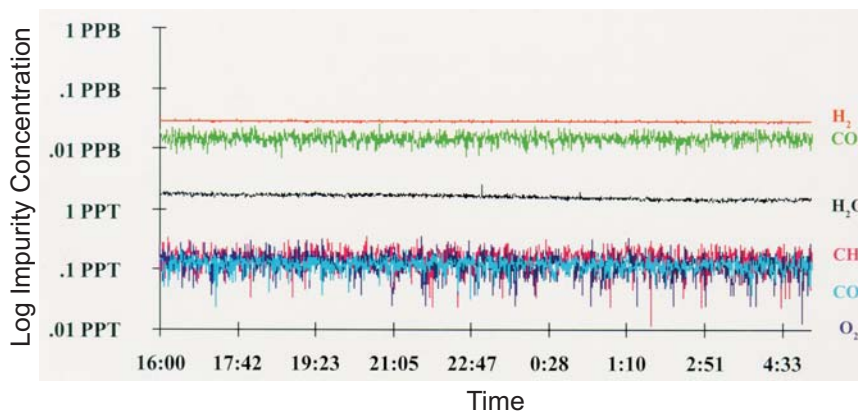
Dimensional and Performance Specifications



Model	A in (mm)	B in (mm)	C in (mm)	Average Flow @1 yr regeneration	Max Flow ¹ @130 psig
E 40 CAG	5.7 (145)	1.0 (25)	8.5 (216)	0.3 slpm	3 slpm
E 100 CAG	5.7 (145)	1.5 (38)	8.5 (216)	0.8 slpm	8 slpm
E 200 CAG	10 (254)	1.5 (38)	12.8 (325)	2 slpm	20 splm
E 600 CAG	14.6 (371)	2.0 (51)	17.4 (442)	6 slpm	60 slpm
E 1000 CAG	22.1 (561)	2.0 (51)	24.9 (632)	10 slpm	100 slpm
E 2000 CAG	33.1 (841)	2.5 (63)	35.9 (912)	20 slpm	200 slpm
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" VCR ²	
Leak Rate	< 2 x 10 ⁻⁹ atm cc/sec He		Gas Inlet	VLSI grade (99.9995% minimum)	

1 - Operation at high flow may result in a high pressure drop. Contact factory for technical assistance.
2 - VCR compatible fitting standard. VCR is a Registered Trademark of Cajon Corporation.

NuPure™ ELIMINATOR™ Nitrogen Purifier Model 200 CAG @ 5 slpm, 130 psig Outlet Purity data as measured by APIMS*



*Tested by a VG Gas Analysis Systems APIMS.

NuPure III

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