

### ELIMINATOR™ CAG

#### Room Temperature Purifiers for Inert Gases



NuPure™ Eliminator™ Model 600 CAG

### FEATURES

- ◆ Removal of impurities to <0.5 ppb<sup>1</sup>
- ◆ 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 H<sub>2</sub> 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 ppb<sup>1</sup> per impurity<sup>2</sup>. 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 REMOVED<sup>1</sup>

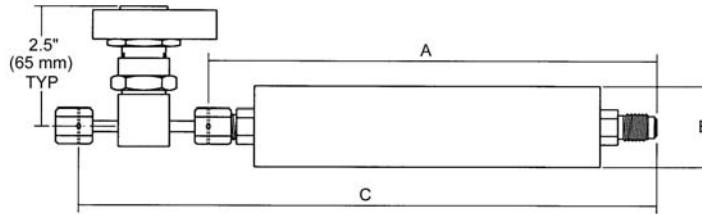
Gas	Version	H <sub>2</sub> O	O <sub>2</sub>	CO <sub>2</sub>	CO	H <sub>2</sub>	NMHCs	CH <sub>4</sub>	Particles <sup>2</sup>
N <sub>2</sub>	PF or XL	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	< 1 pcf down to 0.01 µm
Noble	PF or XL	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb	<0.5 ppb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

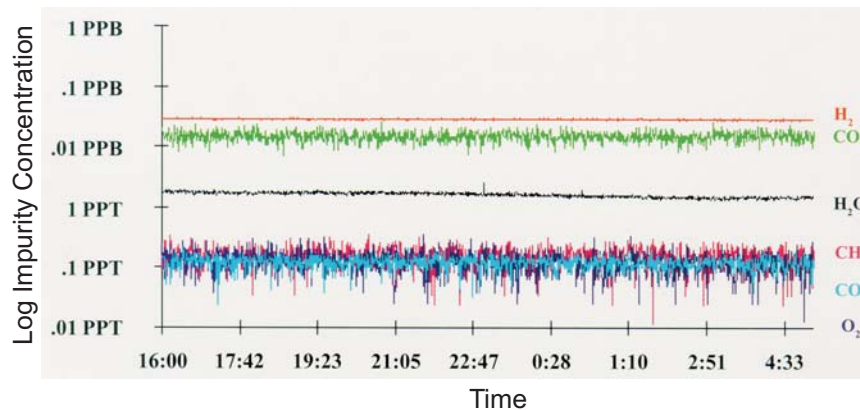


Model	A in (mm)	B in (mm)	C in (mm)	Average Flow @1 yr regeneration	Max Flow <sup>1</sup> @130 psig
E 40 CAG	5.7 (145)	1.0 (25)	8.5 (216)	0.3 slpm	3 slpm
E 100 CAG	5.7 (145)	1.5 (38)	8.5 (216)	0.8 slpm	8 slpm
E 200 CAG	10 (254)	1.5 (38)	12.8 (325)	2 slpm	20 splm
E 600 CAG	14.6 (371)	2.0 (51)	17.4 (442)	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
<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" VCR <sup>2</sup>	
<b>Leak Rate</b>	< 2 x 10 <sup>-9</sup> atm cc/sec He		<b>Gas Inlet</b>	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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