

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

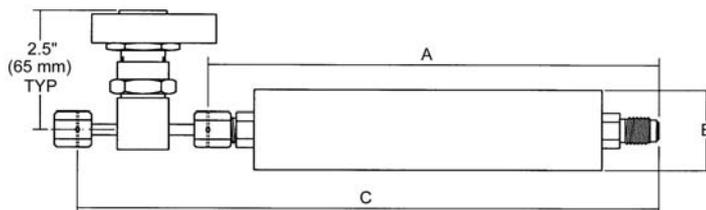
| Gas | Version | H ₂ O | O ₂ | CO ₂ | CO | H ₂ | NMHCs | CH ₄ | Particles ² |
|----------------|----------|------------------|----------------|-----------------|----------|----------------|----------|-----------------|-------------------------|
| N ₂ | PF or XL | <0.5 ppb | <0.5 ppb | <0.5 ppb | <0.5 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

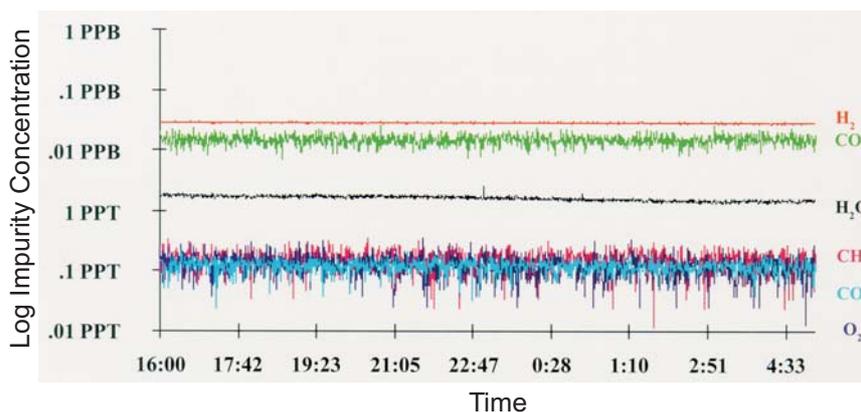


| Model | A in (mm) | B in (mm) | C in (mm) | Average Flow @1 yr regeneration | Max Flow ¹ @130 psig |
|------------------------------|---|--------------|------------------|------------------------------------|------------------------------------|
| E 40 CAG | 5.7 (145) | 1.0 (25) | 8.5 (216) | 0.3 slpm | 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 IIII

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