ELIMINATOR™ CA

Room Temperature Purifiers for Inert Gases and Hydrogen

Eliminator™ Model 600 CA

FEATURES

- 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-Series)
- High Flow - up to 300 slpm
- Low cost (initial and operating)

APPLICATIONS

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

NuPure's Eliminator™ CA Gas Purifiers reduce gaseous impurities to sub-ppb levels at *room temperature operation.* The Eliminator™ removes H_2O, O_2, CO, CO_2, H_2 and NMHC's to <1 ppb from any inert gas (Nitrogen, Argon, Helium, Krypton, Neon and Xenon) and H_2O, O_2 and CO_2 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 *three times* the moisture capacity of the Aeronex Model 500!

The NuPure Eliminator™ CA gas purifiers come in standard size ranges from 0 to 300 slpm, in standard size ranges from 0 to 300 slpm, with the high-flow purifier versions (XL Series) especially suitable for applications such as welding or purging . The use of factory-installed inlet isolation valve is recommended for ease of installation and elimination of possible operator error.

IMPURITIES REMOVED

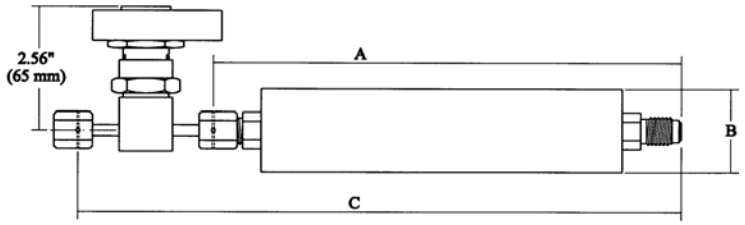
Gas	Version	H_2O	O_2	CO_2	CO	N_2	H_2	NMHC	Particles[1]
N_2	XL or PF	< 1 ppb	< 1 ppb	< 1 ppb	< 1 ppb	-	< 1 ppb	< 1 ppb	< 1 pcf down to 0.01 µm
Noble	XL or PF	< 1 ppb	< 1 ppb	< 1 ppb	< 1 ppb	N / R[2]	< 1 ppb	< 1 ppb	< 1 pcf down to 0.01 µm
H_2	XL or PF	< 1 ppb	< 1 ppb	< 1 ppb	N / R[2]	N / R[2]	-	< 1 ppb	< 1 pcf down to 0.01 µm

[1] Particle removal is guaranteed with PF version only

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

NuPure™ ELIMINATOR™ CA

Dimensional and Performance Specifications



Purifier Model[1]	A in (mm)	B in (mm)	C in (mm)	Average Flows @ 1 yr regeneration	Max Flow [2] @ 130 psig
E 40 I	4.5 (114)	1.0 (25)	7.3 (185)	0.3 slpm	4.5 slpm
E 100 I	4.5 (114)	1.5 (38)	7.3 (185)	0.8 slpm	12 slpm
E 200 I	7.5 (190)	1.5 (38)	10.3 (262)	2 slpm	30 slpm
E 600 I	10.4 (265)	2.0 (51)	13.2 (336)	6 slpm	90 slpm
E 1000 I	15.4 (392)	2.0 (51)	18.2 (463)	10 slpm	150 slpm
E 2000 I	22.8 (579)	2.5 (64)	25.7 (649)	20 slpm	300 slpm
E 40 H2	4.5 (114)	1.0 (25)	7.3 (185)	1.5 slpm	4.5 slpm
E 100 H2	4.5 (114)	1.5 (38)	7.3 (185)	4 slpm	12 slpm
E 200 H2	7.5 (190)	1.5 (38)	10.3 (262)	10 slpm	30 slpm
E 600 H2	10.4 (265)	2.0 (51)	13.2 (336)	30 slpm	90 slpm
E 1000 H2	15.4 (392)	2.0 (51)	18.2 (463)	50 slpm	150 slpm
E 2000 H2	22.8 (579)	2.5 (64)	25.6 (649)	100 slpm	300 slpm

Maximum Pressure	250 psig (USA) / 9.9 kg/cm^{2}G (Japan)	**Materials**	316L SS (<10 Ra EP) finish
Operating Temperature	Room Temperature	**Fittings**	1/4" VCR[3]
Leak Rate	< 2 x 10^{-9} atm cc/sec He	**Gas Inlet**	VLSI grade (99.9995% minimum)

1 - Select "I" for Inert Gases; Select "H2" for Hydrogen, or Hydrogen Mixes (e.g. N_2/H_2, Ar/H_2)
2 - Operation at high flow may result in a high pressure drop. Contact factory for technical assistance.
3 - VCR compatible fitting standard. VCR® is a registered trademark of Cajon Corporation.

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