

Aeronex GateKeeper Purifiers Model 35K and Model 500K

Product Specification



996-0218

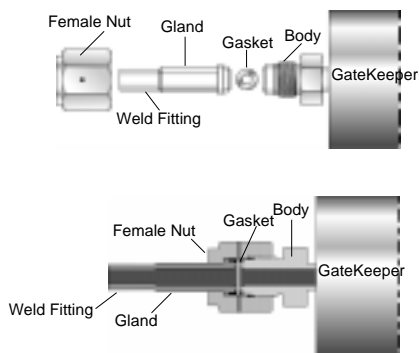
- Remove water, oxygen, CO₂, CO, and H₂ in bulk gases to less than 1ppb, at ambient temperature
- 316 stainless steel, internally electropolished
- Stainless steel face seal fittings for maximum capability

Gas purification increases the sensitivity of gas chromatography systems by removing background contaminants. Model 35K and Model 500K Aeronex GateKeeper® gas purifiers lower the gaseous impurities in bulk specialty gases to sub parts per billion levels (<1ppb), creating 99.999999% pure gas from standard ultra-high purity gas. Using a proven, patented technology, GateKeeper purifiers remove moisture, oxygen, CO₂, CO, and H₂ from argon, helium, krypton, neon, nitrogen, xenon, and hydrogen.

Unlike other purifiers, Model 35K and Model 500K GateKeeper purifiers do not need to be heated. They have a longer life than other models and are available at a lower cost. These purifiers are constructed of 316L stainless steel, are internally electropolished to 16 Ra, and are clean-room welded, tested, and packaged for maximum cleanliness. The patented metallic purifying medium does not contain organic resins that can outgas. Each unit is factory rechargeable.

NOTE: Model 35K and Model 500K Aeronex Gatekeeper purifiers are equipped with face seal fittings (Figure A), and are intended for use with welded tubing fittings. These purifiers are not compatible with compression fittings commonly used in laboratories. The special face seal fittings enable the GateKeeper unit to achieve purification at sub-ppb levels.

Figure A. Components of a Typical Face Seal Fitting



797-0086, 0085

Specifications

Maximum Inlet Pressure	200 psig (1380 kPa)	
Pressure Rating	750 psig (5175 kPa)	
Purifying Medium	Nickel metallic	
Gases Purified	Argon, helium, hydrogen, krypton, neon, nitrogen, xenon (not compatible with oxygen)	
Gases Removed	CO, CO ₂ , H ₂ , H ₂ O, O ₂	
Outlet Purity	< 1ppb	
Operating Temperature	-40°C to 65°C	
Inlet/Outlet Connection	¼" male face seal or ¼" compression	
Filter	0.5µm sintered stainless steel outlet filter for particle removal	
Housing	316L stainless steel, internally electropolished	
Leak Rating	1 x 10 ⁻⁹ atm cc/sec	
Elements Replaceable	Purifier/filtering medium is factory rechargeable	
	Model 35K	Model 500K
Maximum Flow Rate	1 liter/min	60 liter/min
Expected Life (with 99.999% pure gas)	1 year at 60 sccm	1 year at 1 slm
Dimensions	3.31" x 1.5" (8.4cm x 3.8cm)	7.94" x 3.0" (20.2cm x 7.6cm)
Shipping Weight	2 lb. (0.9kg)	4 lb. (1.8kg)

Ordering Information:

Description	Cat. No.
Aeronex GateKeeper Purifiers	
With ¼" face seal fittings.	
Model 35K	24970
Model 500K	24971

Trademarks

ChromFax – Sigma-Aldrich Co.
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