Aeronex GateKeeper Purifiers
Model 35K and Model 500K
Product Specification

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, CO₂, H₂, H₂O, O₂
- Outlet Purity: < 1ppb
- Operating Temperature: -40°C to 65°C
- Inlet/Outlet Connection: ½” 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 Max Flow 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:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
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<tr>
<td>Aeronex GateKeeper Purifiers</td>
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<td>With ¼” face seal fittings.</td>
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<tr>
<td>Model 35K</td>
<td>24970</td>
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<td>Model 500K</td>
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Trademarks

ChromFax – Sigma-Aldrich Co.
GateKeeper – Aeronex, Inc.

Figure A. Components of a Typical Face Seal Fitting

- 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 99.9999999% 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.
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