



saes[®]
getters

HIGHLIGHTS

FEATURES

- Heated Metal Getter
- Purifier life - 12 months at maximum flow rate with impurity level shown on the next page
- Maximum flow rate 200 sccm
- Minimum flow rate 20 sccm
- Easily adaptable to any type of GC
- 1/4" compression fittings
- 1/4" VCR fittings, optional
- Replaceable Cartridge

GASES PURIFIED

- Helium
- Nitrogen
- Argon

ADVANTAGES

- Lower carrier gas background noise
- Increased detection limits and sensitivity
- Greater reproducibility
- ppb level purity at low cost
- Protection of GC columns from moisture and oxygen contamination

GC50

The Need For Purification

Accurate analysis in gas chromatography is dependent upon the purity of the carrier gas, regardless of the type of sensor mounted on the GC. For trace gas analysis, high purity carrier gas is an absolute necessity for the GC spectrum to indicate the most minute, and often critical, fluctuations in purity.

The GC50 Solution

The SAES Pure Gas GC50 is specifically designed for purifying carrier gases used in gas chromatography, as well as other analytical applications with critical carrier gas purity requirements. The GC50 improves carrier gas quality from 5 nines to 7 nines purity. It is so effective in removing gaseous impurities that the outlet concentration is typically below the sensitivity of most commercially available instrumentation.



USE

- Standard voltage heater (no control unit)
- Easy to Use
- Lifetime: 1 year under normal operation
- Virtually no maintenance

MODELS

PS2-GC50-R
Rare Gas, 1/8" Swagelok

PS2-GC50-N
Nitrogen, 1/8" Swagelok

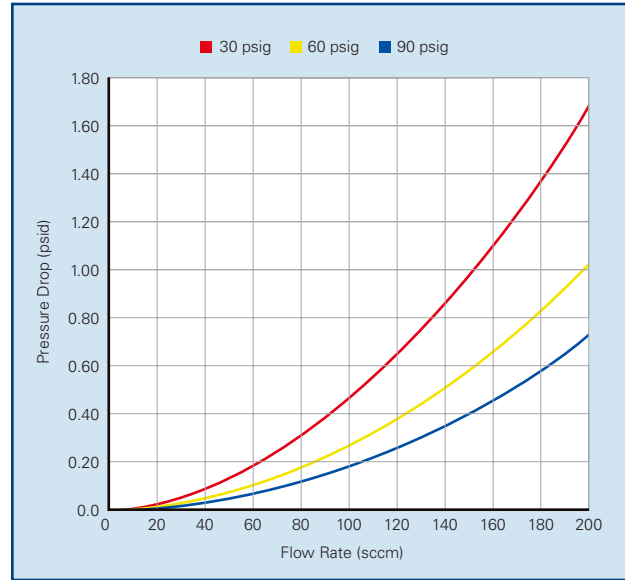
PS2-GC50-R-V
Rare Gas, 1/4" VCR

PS2-GC50-N-V
Nitrogen, 1/4" VCR

GC50 Performance Guarantee

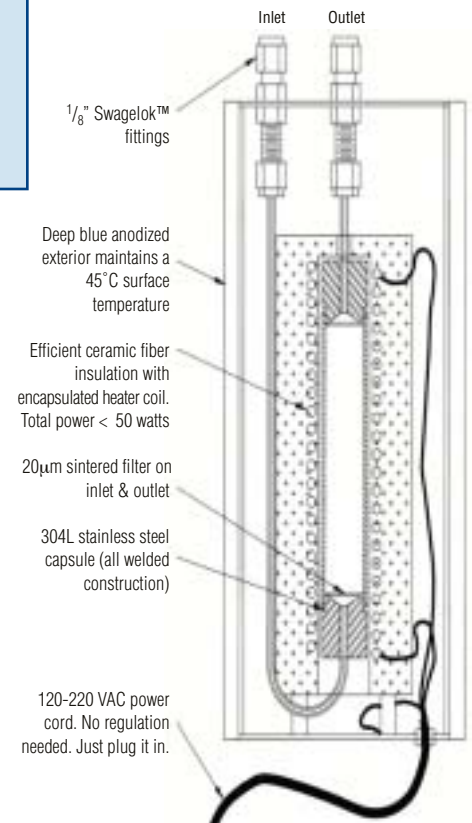
| Impurities | Nitrogen | | Helium or Argon | |
|---------------------|-------------|--------------|-----------------|--------------|
| | Inlet (ppb) | Outlet (ppb) | Inlet (ppb) | Outlet (ppb) |
| H ₂ O | 2000 | < 10 | 2000 | < 10 |
| O ₂ | 3000 | < 10 | 2000 | < 10 |
| CO, CO ₂ | 1000 | < 10 | 500 | < 10 |
| CH ₄ | 500 | < 50 | 300 | < 10 |
| Other Hydrocarbons | 100 | < 10 | 100 | < 10 |
| H ₂ | 1000 | < 10 | 100 | < 10 |
| N ₂ | N/A | N/A | 5000 | < 10 |

Pressure Drop PS2-GC50-R



GC50 Purifier Cutaway View

(Height = 229mm (9.0"): OD = 100mm (4.0"))



Italy

USA

China

Korea

Japan

France

Taiwan

Russia

Germany

Singapore

United Kingdom

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U.S.A.

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