**Gas dilution / blending**

**Environics Series 4040 gas dilution system**

***Description:***

The Environics® Series 4040 is a computerized gas dilution system that automatically generates precise gas standards for rapid multi-point calibration of analyzers. The gas mixes can be used in generating precise gas calibration standards, creating gaseous atmospheres or producing gas mixes for analytical research or production purposes. The Series 4040 can produce gas concentrations from percent to parts per billion levels for single or multi-point calibration.

***Specification:***

**Performance\***

Accuracy
Concentration: ± 1.0% setpoint
Flow: ± 1.0% setpoint
Repeatability: 0.05%

Warm up time: 30 minutes

\* Performance specifications are valid when all Mass Flow Controllers are operating between 10% and 100% of full scale flow.
Mass flow controllers are calibrated using a NIST traceable Primary Flow Standard, using a Reference Temperature of 0°C (32°F) and a Reference Pressure of 760 mm Hg (29.92 in. Hg)

**Mechanical**

Gas connections: 1/4" Swagelok (or compatible fitting)

Operating Pressures
Minimum: 10 psig (0.67 Bar)
Recommended: 25 psig (1.68 Bar)
Maximum: 75 psig (5.04 Bar)

Wetted Surfaces
Tubing: Electropolished 316 Stainless Steel
MFC's: Stainless Steel
Seals: Viton®
(Optional: Kalrez®, Buna-N, Neoprene, Metal)

Operating temperatures
32° - 104° F (0° - 40° C)

Weight
2 MFC System: 18 lbs.
4 MFC System: 23 lbs.
8 MFC System: 35 lbs.

Dimensions (w x h x d)
Portable: 17" x 7" x 15"
(43.18 cm x 17.78 cm x 38.1 cm)

Rack: 19" x 7" x 15"
(48.26 cm x 17.78 cm x 38.1 cm)

**Electrical**

110 to 240 VAC, 50/60 Hz

**Electronics**

12 Bit A/D and D/A Conversion
USB (standard) or RS232 Serial interface

**Software**

Environics Instrument Control Software
(supplied on CD-ROM or downloaded)

**PC Requirements**

IBM PC or compatible (486-33 or higher)
Windows 95/98/Me/NT/2000/XP or Windows 7/8/10
8 MB RAM
10 MB Hard Disk Space
CD\_ROM or internet accessibility
USB (standard) or RS-232 Communication port

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