**Gas dilution / blending**

**Environics Series 4000 gas dilution system**

***Description:***

The Environics® Series 4000 is a multi-component gas blending system that automatically mixes up to seven (7) individual gases in a balance gas. The system consists of two components: the Series 4000 instrument and the user's personal computer. The user interface is a Microsoft® Windows application that communicates with the Environics® system via a USB interface.

***Specification:***

**Performance\***

Accuracy
Concentration: ± 1.0% setpoint
Flow: ± 1.0% setpoint
Flow 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 (flow dependent)
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
MFCs: Stainless Steel
Seals: Viton®
(Optional: Kalrez®, Buna-N, Neoprene, Metal)

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

Performance temperatures
15° - 35° F

Weight
2 MFC System: 18 lbs.
4 MFC System: 23 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**

100 to 250 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 via download)

**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 access to internet
USB (standard) or RS-232 Communication port

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## **OPTIONS**

* Additional input ports (up to 8)
* Additional MFC's (up to 8)