

# Flow Controller



**Gas Mixer for All  
Quantachrome<sup>®</sup> Dynamic Flow Instruments**

# QUANTACHROME'S GAS MIXER/FLOW CONTROLLER

- **Mixes gases for the Monosorb<sup>(R)</sup> surface area analyzer & ChemBET<sup>TM</sup> TPR/TPD/TPO analyzer.**
- **Eliminates the need for many tanks of premixed gases.**
- **Continuously variable gas concentrations.**
- **Calibrated for 16 different mixtures with other combinations possible.**
- **Simple to use, accurate and reliable**

Continuous flow adsorption measurements for BET surface area, chemisorption and TPR/TPD/TPO analysis require precise gas mixing and stable flow rate control. The Gas Mixer offers two channels, each with a high precision linear mass flow controller. The flow rate through each channel may be varied by the operator allowing the relative concentration of a two-gas mixture to be easily established and maintained.

The Gas Mixer eliminates the need for many tanks of pre-mixed gases. Adsorbate (active) and carrier gases can be easily mixed to desired concentrations and flow rates are maintained constant throughout the measurement. Digital presentation of flow rates provides for easy selection and confirmation.

- Attaches to Monosorb<sup>(R)</sup> and ChemBET<sup>TM</sup> in seconds.
- Digital flow presentation in standard cm<sup>3</sup>/min.
- Utilizes linear mass flow controllers for accurate and reproducible flow rate control.
- Flow rates are rapidly dialed in with digital ten-turn potentiometers.
- No moving parts insure long and trouble-free service.

## FLOW CONTROLLER SPECIFICATIONS

### Flow Control Specifications

<b>Flow Rate Range:</b>	0.2 - 20 standard cm <sup>3</sup> /min. for each gas
<b>Flow Precision:</b>	0.1%
<b>Flow Resolution:</b>	0.01 cm <sup>3</sup> /min.
<b>Gas Supply Pressure:</b>	5 to 50 psig

### Physical

<b>Depth:</b>	22.9 cm (9 in.)
<b>Width:</b>	26. cm (10.5 in.)
<b>Height:</b>	35.6 cm (14 in.)
<b>Weight:</b>	10.9 kg (24 lbs.)

### Electrical

<b>Power:</b>	110-120VAC or 220 VAC 50/60Hz
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Quantachrome Instruments' corporate headquarters in Boynton Beach, Florida.

## Quantachrome®

Renowned innovator of ideas for today's porous materials community.

For over 40 years, Quantachrome's scientists and engineers have revolutionized measurement techniques and designed instrumentation to enable the accurate, precise, and reliable characterization of powdered and porous materials:

- Adsorption/Desorption Isotherms
- Surface Area Measurement
- Pore Size Distribution
- Chemisorption Studies
- Water Sorption Behavior
- Mercury Porosimetry
- True Solid Density
- Tapped Density

Not only are Quantachrome products the instruments of choice in academia, but the technology conceived and developed by our expert staff is applied in industrial laboratories worldwide, where research and engineering of new and improved porous materials is ongoing. Manufacturers also rely on porous materials characterization technology to more precisely specify bulk materials, to control quality, and to isolate the source of production problems with greater efficiency.

Quantachrome is also recognized as an excellent resource for authoritative analysis of your samples in our fully equipped, state-of-the-art powder characterization laboratory.



Quantachrome Instruments Application Laboratory.

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Quantachrome Instruments' quality management system is certified to be in accordance with ISO9001:2000.

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# Quantachrome

INSTRUMENTS

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Needs Since 1968



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