



*Innovation in Environmental & Process Technology*

*We **Understand** Water & Waste Water Monitoring*

## **Pulse-Flow Respirometers - PF-4000 & PF-8000**



### **Applications:**

- Biogradation assessments
- Activated Sludge Respiration (ASR) Tests
- OUR Fingerprinting (OUR Respirograms)
- Biomass Activity Tests
- Extant Kinetic Measurements
- Performance Evaluations
- Toxicity Assessments
- Short-Term BOD Measurements

### **Features:**

- Accuracy and Precision
- Ease of data evaluation
- Simplified Operation
- Maximum Flexibility in application

RSA's **PF-4000 and PF-8000 Pulse-Flow respirometers** are designed specifically to measure oxygen uptake for aerobic biological reactions and gas production from anaerobic and anoxic biological reactions. Modular system design allows easy expansion.

The 8-position PF-8000 units can be expanded easily to 16 and 24-position units. Oxygen uptake is measured at rates as low as 0.05 mg/sec and as high as 1,000 mg/hr.

Units can be used in a constant-temperature incubator or can be fitted with optional water bath and heating/cooling units.

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## System Specification

Equipment items:	4- or 8-position flow measuring base USB output to any computer for data acquisition Accessories kit 4 or 8-position magnetic stirring base Readout interval (1 to 720 minutes) Electrical requirements (110 to 240 VAC, 50-60Hz)
Reaction vessel size:	(50 mL to 2+ L)
Temperature of operation:	(5 to 70°C)
Minimum flow rate detection:	~ 0.05 mL anaerobic
Aerobic sensitivity:	as low as 0.03 mg O <sub>2</sub>
Maximum flow capacity:	~ 1,000 mg O <sub>2</sub> /hr
Measurement precision:	< 3% CV

\*Requires Computer with USB port and Windows™ XP, Vista or Win 7

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