SABLE ENABLES

Promethion Room Calorimetry System

Room calorimetry system fully integrated with failsafe room design

Sable System's Promethion whole room indirect calorimetry system synchronously records all measured parameters in a completely traceable manner. Key components of this system include the GA-3m2 triple gas O_2, CO_2, and H_2O dual path analyzer with FG-250 flow generator, providing a compact and complete respirometry system.

WORLDWIDE INSTALLATIONS

More than any other company, for example:

- **University of Colorado Medical School**
- **Columbia University, NYC**
- **University of California Davis**
- **St. Luke's Hospital, NYC**
- **University of Hohenheim, Germany**
- **Christian Albrecht's University, Kiel Germany**
- **K'naan Diet, Israel**
- **Pennington Biomedical Research Center, Louisiana**

FEATURES

System analyzers designed specifically for metabolic measurement, as compared to repurposed industrial gas analyzers used by other systems

Versatile system can quickly be modified for use with mask or canopy configurations for specialized measurements

Highly integrated, temperature-stabilized design provides robust and reliable operation

Pull mode design simplifies converting existing room into a calorimetry chamber

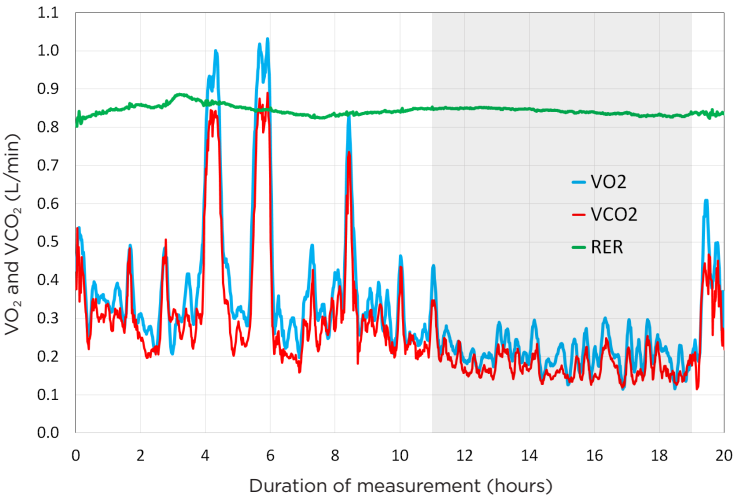
Direct water vapor measurement and compensation using Dalton's Law – no failure-prone water vapor scrubbers

Monitors input and output air streams for precise gas analysis

Background baselining provides uninterrupted data acquisition

System validation can be performed using either methanol, ethanol, butane, propane-burn or nitrogen dilution

Promethion Room Calorimetry System



Indirect calorimetry monitoring of VO_2, VCO_2 and RER for 20 hours using Sable Promethion room calorimetry system. Subject rode stationary bike for 30 minutes at hours 4 and 5. Gray shading indicates lights out phase.

Resting metabolic rate

Active metabolic rate

By Scientists, for Scientists

Sable room calorimetry systems are designed by our team of published scientific experts in metabolic measurement. Sable founder, John R. Lighton, PhD, wrote the book on metabolic measurement: *Measuring Metabolic Rates – A Manual for Scientists*. Our support team is comprised of PhD-level specialists to support you from initial system configuration, through installation, training and ongoing use.

Optional Components

Canopy with Veil

for metabolic measurement during rest in non-whole room environment

Two-Way Non-Rebreathing Mask

for metabolic measurement during exercise in non-whole room environment

ESA Environmental Sensor Array

provides real-time measurements of humidity, barometric pressure, temperature, light, movement, and sound within the room

SPECIFICATIONS

O_2	
Range	0-100% O_2
Accuracy	0.1% of reading typical over range of 2-100%
Sensor Type	Fuel cell
Sensor Life	Up to 3 years in normoxia, typical; user replaceable
CO_2	
Range	0-5% CO_2
Accuracy	1% of reading typical over range of 0-5%
Sensor Type	Dual wavelength, non-dispersive infra-red
MAIN FLOW	
Range	FG-250: 50-250 SLPM

SABLE SYSTEMS INTERNATIONAL

www.sablesys.com

Sable Systems International
3840 N. Commerce Street
North Las Vegas, NV 89032, USA
TELEPHONE:
US: +1 800 330 0465 / + 1 702 269 4445
EMAIL: sales@sablesys.com

SABLE SYSTEMS EUROPE GmbH

Sable Systems Europe GmbH
Ostendstr. 25
D-12459 Berlin, Germany
TELEPHONE: +49 30 5304 1002
FAX: +49 30 5304 1003