AEI TECHNOLOGIES
Metabolic Measurement Systems

MAX-IIa METABOLIC CART

Proven to provide superior performance at an economical price

Ideal for Research, Teaching, Training/Coaching, and Clinical studies in Exercise and Resting Energy

Exclusive Features:

- High accuracy gas and flow measurements
- Easy to use AEI Software with fast calibration
- Distinctive Inspiratory Flow measurement and calibration for better accuracy and decreased contamination
- Faster response and improved gas mixing with fan-driven mixing chamber and active breath detection
- Customize your own protocols or use built-in standard protocols with AEI compatible Treadmills or Ergometers

Available Options:

- Canopy Hood Option for Resting Energy
- PC-Based stress EKG System
- Spirometer
- Trackmaster Treadmill
- Lode Ergometer
- Mask Kits

MAX-IIa

Lode Option + Mask Option

Canopy Option

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Visit our Website: www.aeitechnologies.com

SCAN ME FOR WEBSITE

April 2024

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MAX-II/MAX-IIa Specifications

The MAX-II/MAX-IIa Metabolic Cart is a modular metabolic measurement system ideal for research, teaching and clinical applications. The only difference between the two is the MAX-II offers the front panel digital display.

Standard Features:

· MAX-II/MAX-IIa Control Module
· Pneumotach Breath Volume Measurement System
· Windows Software and Interface Package
· 2 Channels for external analog instruments (0 - 10 Volts DC)
· RS-232 Connection for select Treadmills and Ergometers
· Heart Rate Interface with Polar monitor
· 4.2 Liter Active Mixing Chamber
· Efficient Nafion-based desiccant box with molecular sieve & silica gel indicator
· Two-Way Breathing Valve and Tubing Connections with Headgear and Mouthpieces
· Heavy-Duty Cart; articulating support arm [MAX-II only] [MAX-IIa comes with cart]
· Calibration Gases: Two primary laboratory standard gas tanks with regulators
· Real time and continuous Temperature, Humidity & Pressure Monitoring
· 3 liter calibration syringe
· free lifetime customer-support and software updates

Optional Features and Equipment:

· Laptop Computer or Desktop Computer with Monitor
· Canopy System for Resting Energy Measurement
· Alcohol Burn Validation Kit Available
· Mask kits
· EKG monitors
· Spirometers
· Pediatric options available
· Treadmills
· Ergometers

Specifications for the Oxygen Analyzer

· **Accuracy:** ± 0.03% O_2 over 10 - 21% O_2 range
· **Repeatability:** ± 0.03% O_2
· **Resolution:** Digital Display ± 0.01 % O_2
· **Operating Range:** 0 - 100% O_2

Specifications for the Carbon Dioxide Analyzer

· **Accuracy:** ± 0.03% CO_2 over 0 - 7% CO_2 range
· **Repeatability:** ± 0.03% CO_2
· **Resolution:** Digital Display ± 0.01% of CO_2
· **Operating Range:** 0-10% CO_2

Specifications for the Pneumotach Flow/Volume Measurement

· **Flow Range:** 0 to greater than 800 liters/minute
· **Volume Accuracy:** at least ±1.0%, typically 0.1% or better
· **Resistance to Flow:** 2.8 cm H_2O at 400 liters/min

Specifications for the Ambient Temperature/Pressure/Humidity Measurement

· **Temperature:** +/- 0.5 deg. C
· **Pressure:** +/- 1 mmHg
· **Humidity:** +/- 3% rh

Specifications for the Calibration Gases

· E Size Cylinder, Primary Standard, 5% CO_2 , 21% O_2 ,Bal. N2; accuracy: ± 0.02% CO_2 absolute, ±0.02% O2 absolute
· E Size Cylinder, Primary Standard, High Purity N2