



MAX-II / MAX-IIa Metabolic Systems

Precision Performance in Exercise &
Resting Metabolic Testing

Accurate, reliable data every time

Compact system excellent for research,
teaching, and clinical applications



MAX-II RESEARCH-GRADE SYSTEM



**MAX-IIa ECONOMICAL
RESEARCH-GRADE SYSTEM**

- Stable and repeatable gas analyzers:
 - ± **0.03% Accurate** Paramagnetic O₂
 - ± **0.03% Accurate** Infrared CO₂
 - < **1% Accurate** Breath Volume Measurement
- **Breath-by-breath** measurement
- Accurate 4.2 Liter Active Mixing Chamber
- Canopy Option for Resting Metabolic Rate
- 2 Channels of user-defined analog inputs
- Manual and Auto-Calibration features
- Built-in Heart Rate Interface for Polar sensor or compatible ECG equipment.
- RS-232 Connection for communication with Treadmills and Ergometers
- Allows easy use with Douglas Bags for system validation and analysis
- Windows[®] software featuring useful features for data collection, report generation, and much more. Export to Excel for further analysis of data.
- Complete Cart System* including Calibration Gases
- Worldwide reputation for excellence in quality and service.

AEI TECHNOLOGIES

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MAX-II/IIa Metabolic Systems

SYSTEM SPECIFICATIONS:

OXYGEN ANALYZER:

Paramagnetic sensor. Range 0 - 100% Oxygen, accuracy, linearity and repeatability are better than 0.03% of Oxygen from 10% - 21% Oxygen. Stability is better than 0.01% of Oxygen per hour. A 4-1/2 digit front panel display has a resolution of 0.01% Oxygen, front panel controls with vernier dials are provided for low and high calibration.

CARBON DIOXIDE ANALYZER:

Infrared sensor. Range 0 - 10% CO₂, accuracy, linearity and repeatability are better than $\pm 0.03\%$ of CO₂ over the physiological range. Stability better than $\pm 0.1\%$ of CO₂ over 24 hours, 3-1/2 digit front panel display has a resolution of 0.01% of CO₂, front panel controls with vernier dials are provided for low and high calibration.

VOLUME AND FLOW:

Range of flow from 0-15 liters per second, volume accuracy is better than $\pm 1.0\%$ typical from resting ventilation levels to V_e 's over 200 l/min. Flow stability better than $\pm 0.01\%$ full scale. Verification of accuracy can be done without recalibration.

SOFTWARE:

Off-line data may be entered either during or after tests. All data can be exported to any Windows compatible spreadsheet or statistics program. Breath-by-breath or averaged data may be viewed during or after test in either tabular or graphic form. Averages may be viewed over any interval from 1 second to 300 seconds. Data from external equipment may be integrated with basic data.

Independent Validation:

Validation studies, performed by renowned physiologists, have shown the performance of the MAX-II to be comparable to simultaneous measurements made with Douglas Bags and a Tissot Spirometer (the gold standard).

*Complete Cart System includes: Cart, Non-rebreathing Valve, Mouthpieces, Breathing Hoses, Pneumotach Breath Volume Measurement Device with Calibration Syringe, Nafion® drying tube, Calibration Gases and Regulators, tubing, and accessories.

Laptop Computer and Color Ink Jet Printer provided at additional cost

Available Options:

- System setup, calibration, and training at your facility
- Canopy System (as shown on right with MAX-IIa)
- Desktop Computer; 2GHz or greater with 17" Flatpanel Monitor
- System minus computer and/or cart – lower cost and lower shipping charges
- Face Mask Kit to replace mouth piece



**MAX-IIa SYSTEM
w/CANOPY OPTION**



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