

MAX-II Metabolic Cart

Precision Performance in Exercise & Resting Metabolic Testing



Ideal For: Research, Teaching and Clinical Studies

High Accuracy / Fast Response Time

Accurate, reliable data every time

Human Performance Testing:

VO₂ Max / Sub-Max Testing for Elite Athletes,

Obese Adults, Small Children, Geriatric, & Rehab

Every Breath Recorded Accurately & Unerringly

Resting Energy Testing: Canopy Systems

Flow variable for every Test Subject: Small Children

to Super Obese Adults ensuring correct REE / RMR

Easy to use Software:

Quickly guides you through set up and calibration

Economical MAX-IIa Research Grade System also available

Unique Features:

Continues Temperature, Pressure and Humidity Monitoring

4.2 Liter Active Mixing Chamber

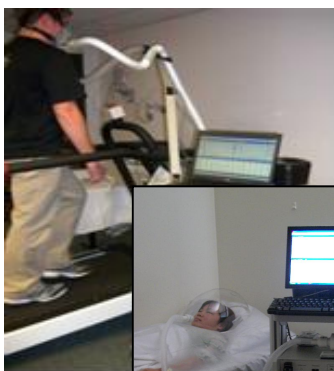
Ensuring precise breath measurements

Dual Stage Nafion Tube drying system:

Eliminating water vapor errors

Flow measurements made on inhalation portion of breath

Sensor not contaminated by testing



RS-232 Connection for communication with Treadmills and Ergometers

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.

SYSTEM SPECIFICATIONS:

OXYGEN ANALYZER:

- AEI 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.

CARBON DIOXIDE ANALYZER:

- AEI 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

VOLUME AND FLOW:

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

SOFTWARE:

- AEI 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:

- AEI 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.

Available Options:

System setup, calibration, and training at your facility.

Canopy System shown on right.

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.

Complete Cart System includes:

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

