

VO₂ 2000™

Exercise Testing System

Take your VO₂ testing to a higher level.

Versatile

The MedGraphics VO2000 will meet the needs of the research center, sports medicine clinic, sports team, nutritionist, rehab facility, athletic club and classroom. The VO2000 stores data in on-board memory for later download, works remotely with continuous data feed from the telemetry option, or operates connected to a PC.

Comfortable

The compact, lightweight design may be worn with a contoured athletic belt or three point harness. The patented preVent™ mask is form fitting, comfortable and significantly lighter than standard masks.

Easy To Use

The small size makes this highly portable and with the quick connect, setup is a snap. The VO2000 uses a patented, hands-free auto-calibration. No calibration syringes or gases are required.

Accurate

Patented sampling techniques and enhanced gas analysis provide highly accurate and reliable metabolic measurements under a variety of testing conditions.

Affordable

The VO2000 is one of the most affordable metabolic systems available. It comes complete with all the accessories you need to start testing.

BreezeSuite™ Software

The BreezeSuite software runs on Windows 2000™ and XP Professional™ PC's and requires no additional hardware components. Results can be printed on a standard PC compatible printer. Configurable screens and graphs offer powerful assessment tools. Important markers such as anaerobic threshold can be automatically detected, even from a submaximal test!



VO₂₀₀₀TM Exercise Testing System Specifications



All specifications subject to change without notice. Products may vary from that illustrated. Please contact your Medical Graphics representative for latest information, pricing and product availability.

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Part #060008-001 REV C

Innovative Technology

- Unique hands-free AutoCal System requires no calibration syringe or gases.
- Patented Electronic Variable Sampling provides continuous sample flow & insensitivity to pressure and temperature artifacts.
- Patented preVentTM Pneumotach and preVent Mask provide accuracy and comfort without bulky connections or headgear and is insensitive to turbulence.
- Optional Telemetry system allows you to measure the true metabolic response of physical activity under “real world” conditions.

Dimensions

- Width: 10.5 cm (4.25")
- Depth: 14 cm (5.5")
- Height: 5 cm (2")
- Weight: 680 grams (1.5lbs)

Operation

- Mean Sample Flow: 50cc/min
- Peak Sampling Rate: 150 Hz
- Auto Cal/Zero Time: Typically <55 seconds

Volume Measurement – preVent Pneumotach

- Bi-directional Pitot Tube
- Low Flow Range: 2-30 L/Min
- Exercise Range: 20-200+L/Min
- Accuracy: ± 3% of Absolute Volume

O₂ Analyzer

- Type: Galvanic Fuel Cell
- Range: 0-96%
- Accuracy: ± 0.1%

CO₂ Analyzer

- Type: Non-Dispersive Infrared
- Range: 0-10%
- Accuracy: ±0.2%

System Response

- <9 sec
- 3 breath average

Data Acquisition and Storage

- Data is transmitted between each breath interval. Data storage is in breath rate or time based packets, at the user's options
- Breath-Rate Data: 3 breaths
- Time Data: 10, 20, 30, 40, 50 or 60 sec

Telemetry Receiver

- Type: Bi-directional 2.4 GHz digital spread spectrum
- Interface: RS232

Heart Rate Measurement

- 5 volt logic TTL input & Polar CIC Interface

Power Requirements

- 12V DC @ 650mA (Peak)

Environmental Specifications

- Operating Range: 0-35°C
- Humidity Range: 0-98% non-condensing
- Sample Condition: Dry to Saturated

Software Features

- Report Designer
- Script Designer
- Multi-User (Optional)
- Query Database (Optional)
- ExerScriptTM (Optional)
- Exercise ConsultTM (Optional)
- User Defined Predicteds
- HIPAA Security

