



A new approach to human performance assessment through VO₂max and resting metabolism



Fitmate^m is a small, inexpensive, userfriendly, lightweight, battery-powered unit, facilitating accurate metabolic measurements in both the field and in the lab⁽¹⁾,

- VO₂max, sub-max VO₂ and Anaerobic Threshold (AT)
- Nutritional assessment (REE, RMR)
- Fitness assessment and risk analysis
- Body composition & comprehensive weight management
- Colour LCD display and embedded high speed thermal printer
- Software for data management, exercise prescription and HR-VO₂ training zones
- Accurate, affordable and easy-to-use



Fitmate PRO is a desktop metabolic monitor designed to break the mould of traditional Cardio Pulmonary Exercise Testing and proposes a new approach for the measurement of oxygen consumption during exercise testing or at rest.

Fitmate PRO measures VO₂max, either directly or through a sub-maximal protocol, and provides additional features like the calculation of the Anaerobic Threshold (AT) and the definition of heart rate training zones.

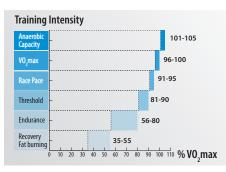
Fitmate PRO is a compact desktop device with internal rechargeable battery, a large LCD screen and in-built printer that allow testing without a computer or mains power lead. Fitmate PRO processes test results and stores all information inside its internal memory, ready for upload to PC software (included).

Fitmate PRO has been validated for measuring VO₂max and for predicting maximal oxygen consumption with a sub-maximal protocol.

Cardio Respiratory Fitness (VO, max)

The Fitmate technology allows to execute the VO₂max and sub-max test with most of cyclergometers and treadmills available in the market (h/p/cosmos, Ergoline, Trackmaster, Technogym, Monark etc.).

- VO₂, ventilation, heart rate and related parameters with a 15 seconds sampling rate
- Pre-defined VO₂max and Sub-max exercise protocols and user defined protocols
- Pre-defined or custom exercise protocols (Bruce, cycle, ramp etc.)
- Automatic and adjustable Anaerobic Threshold detection
- Automatic RQ compensation during resting and graded exercise
- Automatic (protocol) or manual ergometer control
- Heart Rate measurement with wireless belt (included) or TTL from ECG (optional)
- Calculation of Training Zones based on relationship between VO₂ and HR (both sub-max and VO₂max testing)
- Warnings and quality control messages (mask leaks, breathing pattern etc.) are displayed during test.



Training Zones based on the relationship between VO, and HR

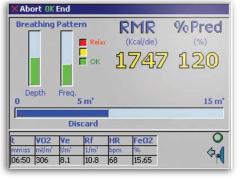


Comfortable silicone masks (5 sizes, both adult and pediatric) are available for exercise testing and for resting measurements.

(1) Nieman DC, et al. Validation of Cosmed's FitMate in measuring exercise metabolism. Appalachian State University, Boone, North Carolina, USA. Res Sports Med. 2007 Jan-Mar;15(1):67-75

Fitness Assessment

- Muscular fitness, resistance & flexibility
- Body Composition
- Standard Measurements (WHR, blood pressure etc.)
- Comprehensive Exercise Prescription report based on ACSM guidelines with a database of exercises and pictures for educational purposes
- Cardiovascular Risk Analysis (PC software only)

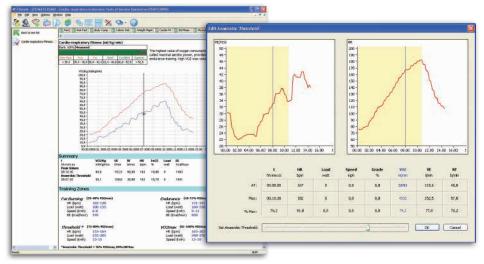




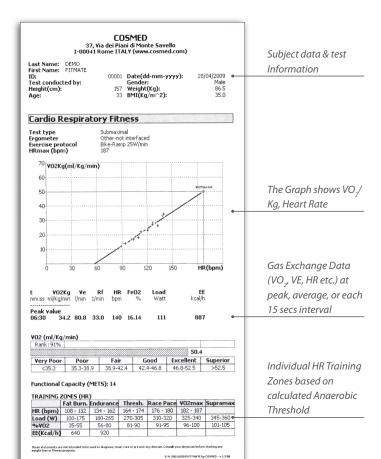
Real-time screenshot of VO, max and RMR tests as shown on Fitmate PRO LCD display

Nutritional Assessment

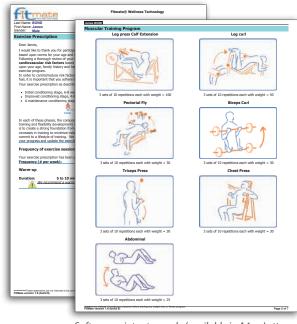
- Fitmate measures accurate oxygen consumption at rest (REE, RMR), comparable with conventional metabolic carts. Tests can be executed either with multi-use silicone face masks, with mouthpiece and antibacterial filter or, optionally, with an integrated canopy hood;
- Individual weight management programs based on Energy Balance equation;
- Weekly Dietary plan and software (w/ USDA Database);
- Complete Lifestyle and Physical activity assessment up to 60 days (optional).



Software provides complete information of current open session or previously closed sessions, offering the ability to review serial test data.



Thermal printout sample (original size 110mm wide): Sub-Maximal Exercise Test



Software printout sample (available in A4 or Letter size): ACSM Exercise Rx



Easy to replace, the O_2 cell comes in a sealed bag, Lifespan is 12-18 months and it is indicated by the device. Headquarters ITALY

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Scientific studies at: www.cosmed.com/bibliography



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