



MetaLyzer[®] 3B. Test, see and wonder.

The **MetaLyzer[®] 3B** is a sophisticated cardiopulmonary exercise system for bike or treadmill testing in the lab. With its modular design and excellent price/performance ratio the MetaLyzer[®] 3B easily adapts to your testing needs.

Features & Benefits

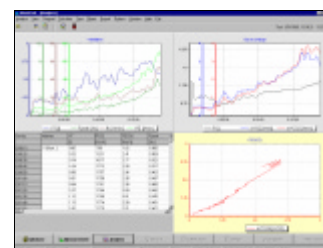
- **Breath-by-breath (3B) and Intra-breath** analysis, using fast-response precision analyzers
- **Precise functional assessment** (heart, lung, pulmonary circulation) provided in
- **one** single system
- **Two-point** calibration for utmost accuracy
- **Reliable and reproducible** measurement results throughout an extended ventilation range
- **Online ECG and heart rate monitoring** via Polar[®] belt and/or optional 3-channel ECG
- **Simple operation** with on-screen help messages and self-diagnostic function
- **Automatic** bike or treadmill control
- **Extensive** basic equipment, including all accessories needed to start CPX testing from the scratch
- **Easy-to-expand** when needs grow via optional hardware (e.g. CardioLyzer 12-channel ECG, NIBP) or software (e.g. spirometry) due to **modular system design**
- **Interfaces** to connect external devices (e.g. NIBP device, 12-channel ECG, treadmills)
- **Quick access of test results**, comparisons and simple report generation using powerful MetaSoft[®] to track therapeutic or training progress
- **Small, lightweight design** makes it suitable for ambulatory or off-site use



Cardiopulmonary exercise on bike



or treadmill for treatment and prevention.



*MetaSoft[®].
Key exercise data at a glance.*



Extent of Supply

- MetaLyzer[®] 3B CPX System with automatic bike or treadmill control
- DVT or Triple[®] V volume transducer
- Sample line with Nafion[®] drying tube
- CORTEX face mask set
- Head cap
- Polar[®] receiver set for online heart rate measurement
- Power cord
- PC connection cable
- MetaSoft[®] metabolic stress test software under Microsoft[®] Windows[®] 95/98, NT 4.0
- User manual
- Carrying case with inlay

Options

Hardware

- CardiLyzer 12 with add-on modules:
 - PC-Based 12-Channel Rest & Stress Test ECG
 - Non-Invasive Blood Pressure Measurement
 - Pulsoximetry
 - 10-Lead Suction Electrode System
- 3-Channel Monitoring ECG

Software

- Spirometry
- Indirect Calorimetry
- Non-Invasive Cardiac Output

Accessories

- Calibration Kits
- Computer
- Color Printer
- Multi-Function Cart/Trolley

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Technical Specifications

Stationary Cardiopulmonary Exercise System

Method	Breath-by-breath
Size (L/W/H)	235 x 165 x 85 mm
Weight	1,300 g

Electrical / Environmental Specifications

Temperature	+10° - +35° C
Pressure	500 - 1050 mbar
Humidity	0 - 99 %
Power supply	Input: 100 - 250 V AC, 50 - 60 Hz Output: 12 V DC, 1.5 A

Analyzers

Volume transducer DVT	Type: DVT, turbine, digital Range: 0.1 - 12 l/s Resolution: 7 ml Accuracy: 2 %
Volume transducer Triple [®] V	Type: Triple [®] V, turbine, digital Range: 0.05 - 20 l/s Resolution: 7 ml Accuracy: 2 %
O ₂ sensor	Type: electrochemical cell Range: 0 - 35 Vol % t ₉₀ : 100 ms Accuracy: 0.1 Vol. %
CO ₂ sensor	Type: Infrared Range: 0 - 13 Vol % t ₉₀ : 100 ms Accuracy: 0.1 Vol. %
Pressure	Type: Silicon Range: 200 - 1050 mbar Accuracy: 1.8 %
Temperature	Type: NTC-Thermistor Range: -55 - +155 °C Accuracy: 1 °C
Heart rate	Polar [®] or ECG

3-Channel ECG (optional)

Channels:	3
Leads:	Einthoven, Wilson, Nebh, Goldberger
Frequency:	200 Hz
Resolution:	11bit
Amplification:	5, 10, 20 mm/mV

Safety

Safety Standards	EN 60601-1 (1996) EN 60601-1-1 (1994) EN 60601-1-1/A1 (1996)
Class	Class II, Type BF
EMC	EN 60601-1-2 (1994)
Conformity	Class II a (according to 93/42/EWG; Appendix IX)

Quality

ISO 9001, EN 46001,  0124

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