Extent of Supply

- MetaMax® II Portable CPX System
- Triple® V Volume Transducer
- Windshield
- Sample Line
- CORTEX Adult Face Mask Set (S, M, L)
- Adult Head Cap
- Polar® HR Set
- Battery Charger
- 2 Li-Ion Batteries small
- Power Supply for stationary use
- PC Connection Cable
- Telemetry Transmission Set
- SnipSnap Velcro Harness Set
- MetaSoft® CPX Software MS® Windows®
- Carrying Case
- User Manual

Key exercise data throughout the test.

Options

Hardware
- CardioLyzer Ultra for bike or treadmill testing in the lab:
  - PC-Based 12-Channel ECG
  - Motion-Tolerant NIBP
  - Pulse Oximetry
  - 10-Lead Suction Electrode System
- CBP 2000 Portable NIBP System
- 1-Channel Monitoring ECG

Software
- CORTEX Statera
- CORTEX Zone Trainer
- Ergometer/ Treadmill Control
- Spirometry
- Nutritional Assessment
- Non-invasive Cardiac Output

Accessories
- Pediatric Face Mask Set
- Special Face Mask Set for cold/humid climate
- Battery Power Packs (Sprint, Medium, Marathon)
- Calibration Kit
- Computer / Notebook
- Color Printer
- Multi-function Trolley/Cart

Technical Specifications

Portable Cardiopulmonary Exercise System

Method: Dynamic mixing chamber
Size (L/ B / H): 189 x 160 x 47 mm
Weight: 790 g
Data logger: Capacity up to eight hours

Environmental/Electrical Conditions

Temperature: -20°C - +50° C
Pressure: 500 - 1,200 mbar
Humidity: 0 - 99 %
Battery: Lithium-ion, approx. 1 h each
Power Supply: Input: 100 - 200 V AC, 50 - 60 HZ
Output: 7.5 V DC

Analyzers

Volume Transducer: Type: Triple-V® turbine, digital
Range: 0.05 - 20 l/s
Resolution: 7 ml
Accuracy: 2 %

O₂ Analyzer: Type: Zirconium
Range: 0 - 25 % Vol.
Accuracy: 0,1 Vol. %

CO₂ Analyzer: Type: Infrared
Range: 0 - 10 % Vol.
Accuracy: 0.1 Vol. %

Heart Rate: Polar® Belt or ECG (optional)
ECG: 1- or 12-channel ECG (optional)

Telemetry (uni-directional)

Receiver: 150x80x45 mm (L/W/H)
Frequency: 433,125 MHz
Range: up to 1.000m

Size Transmitter: 100 (L) x 55 (B) x 30 (H)mm
Weight Transmitter: 130 g
Size Receiver: 150 (L) x 80 (B) x 45 (H)mm
Weight: 200 g

Optional: bi-directional telemetry
Frequency Selection: (433.125 – 434.700 MHz; 64 channels)

Safety

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 (93/42/EWG; Appendix IX)

Quality

ISO 9001, EN ISO 13485, 0124

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CORTEX. True Competence in Metabolic Stress Testing.
MetaMax® II

Features & Benefits

- **Truly multi-function** CPX system suitable for any stress test environment - from bike/treadmill testing in the lab to off-site and field use.
- Precise, reliable measurement of a **wide range of volumes and breathing frequencies** (e.g. patients-athletes).
- Reliable **mixing chamber** analysis of key exercise data during **indoor and outdoor activities**.
- **Modular Li-Ion battery** concept to increase testing efficiency.
- Flexible "**SnipSnap**" Velcro harness, easy to fit on the back or in front, improving carrying comfort.
- Safe monitoring and test control from a remote location using **telemetry data transfer**.
- **Extensive datalogger** for offline use.
- **Simple operation** using color-coded cable/tube connections to reduce prep-up time to a minimum.
- **Easy-to-expand via optional hardware and software** (e.g. interface to connect treadmills, 12-channel ECG, NIBP, spirometry) for a complete functional analysis with one single test.
- **Quick access of test results**, comparisons and simple report generation using powerful MetaSoft®.

Design in Progress.

As a lightweight CPX system, which can be battery operated, portable MetaMax® II has been designed to cover a broader range of testing needs. In the lab, off-site or in the field.

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