METALYZER® 3B PORTABLE SPIROERGOMETRY SYSTEM



Product Brochure



FOR A MORE ACTIVE LIFE



MetaLyzer® 3B

The Metalyzer® 3B is a portable high resolution spiroergometry system with Breath-by-Breath technology. The system allows a complete medical analysis of the functionality of a person's lung, heart and metabolism at rest and under stress.

The Metalyzer® 3B can be used in various ways thanks to it numerous hardware and software options. Its scope ranges from a spiroergometric measuring station for performance diagnostics up to a complete cardiopulmonary solution.

Either in a fitness club, at a medical practice, in a hospital of at an Olympic test center: Benefit from the Metalyzer® 3B in combination with the efficient application software Metaloget Studio and exploit the full potential of spiroergometry.

Information and Accuracy

SPIROERGOMETRY

LACTATE TEST

PWC

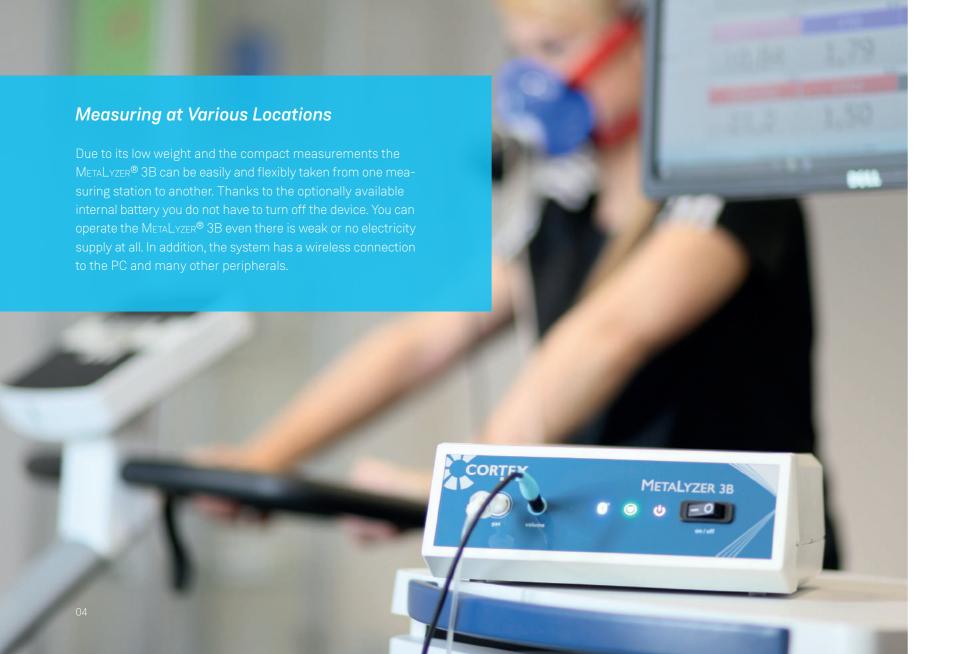
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For more information: http://cortex-medical.com

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METALYZER® 3B FOR A MORE ACTIVE LIFE

Features

- portable Breath-by-Breath system
- internal battery allowing a 12-hour running time (available as an option)
- Bluetooth® LE for connection to HR, SpO2, power meters and other measuring devices
- interfaces to numerous types of ECGs
- USB or Bluetooth® connection to a PC
- front display with LED status indicators
- push-pull connectors protecting against reverse polarity and damages
- · minimal need for maintenance
- long calibration intervals
- · 02 sensor with long lifespan
- constant and dynamic flow control
- modular future-proof system set-up

Low Maintenance

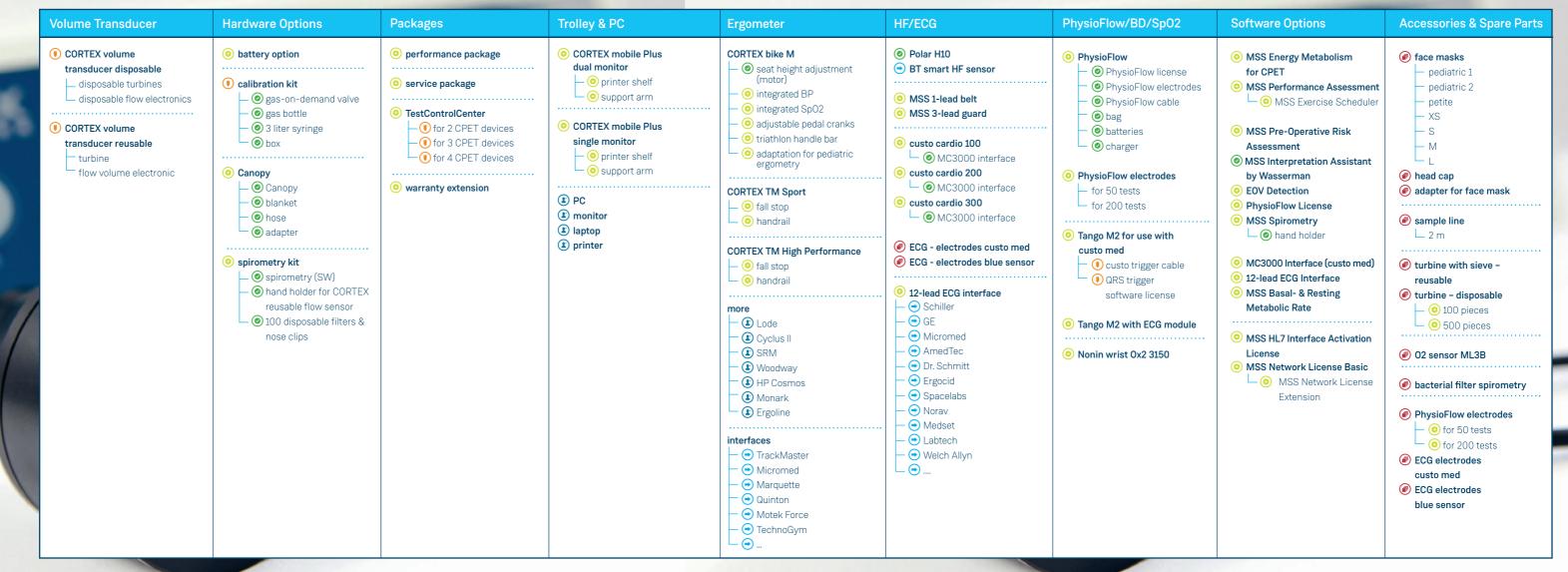
Our customers often say the Metallyzer® 3B is a "work horse". It is extremely reliable and requires only minimal adjustment and maintenance. Gas calibration once a month is absolutely sufficient. Handy gas cartridges and the automatic gas-on-demand valve ensure correct dosage of quantity and pressure.

Service-friendly

The few consumables can be easily and quickly exchanged by the user due to its clever design. The device is therefore operable at any time.

The Entire Spectrum of the METALYZER® 3B

Configure your Metalyzer® 3B according to your individual needs. A wide range of hard-/software options and benefit packages are available. You can enhance your selected system by adding perfectly matching peripherals and accessories.















BENEFIT FROM OUR PACKAGES

The Service Package for Major Security of Investment

The service package includes all consumables (calibration gas, 02 sensors etc.) for the first three years. It gives you high planning reliability for your projects and test studies thanks to an extended warranty period of three years. In addition, your operating costs are much lower by purchasing the service package.

Performance Package Metalyzer® 3B

The Metalyzer® 3B performance package already comes with the most widely used hardware and software options in the area of sports and preventive medicine. In addition, the package includes a calibration set, a mask extension set and a larger stock of consumables.

CORTEX Warranty Extension

The warranty extension from CORTEX allows you to extend the warranty for your spiroergometry system at any time and as often as you wish. CORTEX offers you attractive warranty packages for the systems depending on scope and duration. The warranty includes free of charge repair of the device, trouble shooting of hard- and software as well as regular software updates.

For more information on the terms of the warranty extension please go to:



For more information: http://cortex-medical.com

CONNECTIVITY

CORTEX treadmill TM

The CORTEX treadmill TM combines functionality and design at an outstanding price-performance ratio. Two basic versions are available: with running surfaces of $53 \text{ cm} \times 161 \text{ cm}$ or $73 \text{ cm} \times 172 \text{ cm}$ plus various add-ons.

CORTEX bike M

Due to its ergonomic design with an open frame, low entry and the stable aluminum platform, the CORTEX bike M is a perfect all-rounder.

Additional Ergometers and Treadmills

Connect our systems to more than 40 different ergometers and treadmills. Based on special software interfaces you can easily connect our spiroergometry solutions to a continuously increasing number of bike / arm ergometers and treadmills (such as: Ergoline, Cyclus 2, h/p/cosmos, Woodway or Lode). Upon special request we also offer connections to additional devices. Just give us a call.

Electrocardiograms (ECGs)

The perfect symbiosis between spiroergometry and ECG: benefit from the specific advantages of a bidirectional interface and combine our spiroergometry solutions with the ECGs made by custo med.

Numerous advantages such as simplified operational steps, a synchronized cursor or an easier exchange of variables enable an especially intuitive reporting, thereby enhancing your test and diagnostic options.

Besides custo med's ECGs you can select alternative ECG connections. For more information please refer to pages 6 and 7.

Wireless 3-lead ECG from custo med

The custo guard allows a user-friendly 3-lead ECG measurement when performing laboratory and field tests.

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METASOFT® STUDIO MAKES COMPLEXITY EASY

The MetaSoft® Studio combines the complexity of spiroergometric examinations with the most intuitive usability in a unique way.

It is impossible to give a feeling of the easy and intuitive data collection and test evaluation MetaSoft® Studio offers.

To put it briefly:

You have to see and test MetaSoft® Studio by yourself.

Please contact us to arrange an appointment for a product presentation to see what the software is all about. To get a first impression, watch our short video tutorial:







CORTEX Quality Guarantee

The top quality of CORTEX products and services is the key factor of our success and represents a central brand promise. Since founding our company almost 30 years ago, we stay for:

"Fast realization of innovative ideas, supported by excellent services, now and in the future".

We and all our CORTEX partners work according to the world wide quality and security standards of medical products.

The Entire Spiroergometry Variety

Visit our website www.cortex-medical.com and get to know the wide range of products offered. Or ask for additional brochures. Besides our powerful mobile and portable spiroergometry systems we also offer customized solutions. Share your ideas and tell us what you want!

You would like to know more about CORTEX and our products?
Then contact us!
Please call: +49 341 487 49-0 or send

an e-mail to: sales@cortex-medical.com



METALYZER® 3B TECHNICAL DATA

02 Sensor

- type: electo-chemical fuel cell
- · range: ≤ 25 Vol %
- accuracy: +/- 0.1 Vol %
- · calibration: every 14 days

CO2 Sensor

- type: Infrared (NDIR)
- · range: ≤ 13 Vol %
- · accuracy: +/- 0.1 Vol %
- · calibration: 1x per month

Volume Turbine, Reusable

- · flow: ≤ 20 l/s
- accuracy: +/- 2 %
- · resistance PEF: ≤ 0.30 kPa/I/s @ 20 I/s
- · calibration: 1x daily

Volume Turbine, Disposable

- flow: ≤ 14 l/s
- · accuracy: +/- 3 %
- resistance PEF: ≤ 0.36 kPa/I/s @ 14 I/s
- · calibration: not neccessary

Heart Rate

smart BT | 3-lead ECG (optional)
 12-lead ECG (optional)

Operating Conditions

- temperature: +10 ° to +35 °C
- ambient pressure: 500 to 1,050 mbar
- · at atmospheres: ≤ 25 % 02
- relative humidity: ≤ 95 %

Physical Specifications

- dimension (LyWyH): 240 x 210 x 90 mm
- · weight: 940 g

Electrical Specifications

- · PC interface: USB (cable or Bluetooth®
- · power supply:
- input 100-250 VAC, 50-60 Hz, 12 W
- external battery: 12 h operating time

Quality Management

· FN ISO 13485

Conformity

- MDD 93/42/EEC MDR (EU) 2017/745 Art. 120
- EN 60601-1; EN 60601-1-2;
 EN ISO 10993-1; EN 62366; EN 62304
 EN ISO 14971; EN ISO 15223-1;
 EN ISO 23747: EN ISO 26782

System Requirements Operating System

Windows 7, 8, 10 (32 or 64 Bit)
Windows Server 2008, 2012 (64 Bit),
2016 (64 Bit)