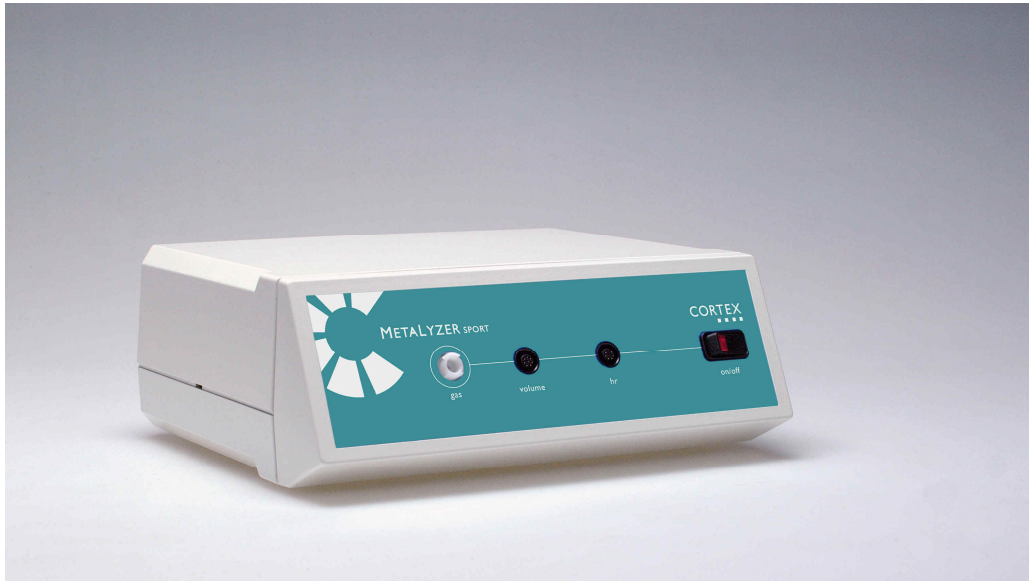




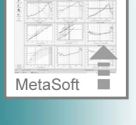
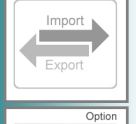
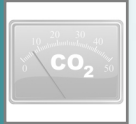
MetaLyzer Sport



MetaLyzer[®] Sport is based on our well proven high-end CORTEX cardiopulmonary exercise testing systems allowing quick and easy maximum exercise, fat burning and resting metabolic rate testing.

- **Breath-by-Breath system** – exact breath by breath measurements
- **O₂ & CO₂ analysis** – the most precise determination of the anaerobic threshold
- Highest accuracy of results with **simple gas and volume calibrations**
- **Reusable volume sensor and masks**
- Device Upgrade for **MetaSoft** application (optional)
- Test data can be **exported / imported** (optional)

MetaLyzer Sport



Exercise Testing for Health, Sports and Athletic Clubs

Cardiopulmonary exercise testing – CPET – is one of the most precise and meaningful diagnostics in medicine and professional sports. But up to now this test method has found little use in the health, recreational sport and fitness sector – with the **MetaLyzer Sport System** CORTEX now sets new standards.

MetaLyzer Sport Basic Package

Art.No. 230-01-001

Scope of Delivery

- **MetaLyzer Sport** Breath-by-Breath device
- one MetaFit software test license
(selectable: Maximum Exercise Test or Fat Burning Test or Resting Metabolic Rate Test)
- Reusable volume sensor
- Gas sample line
- Reusable masks
- Harness for masks
- Polar® belt for heart rate determination
- Ext. power supply
- PC connection cable
- Product documentation
- Carrying case

Accessories & Options

Hardware

- Treadmill and/or bicycle ergometers
- Complete system, incl. ergometer, PC system and cart

Software

- Maximum Exercise Test Art.No. 720-09-023
- Fat Burning Test Art.No. 720-09-024
- Resting Metabolic Rate Test Art.No. 720-09-025
- Test-Trend-Presentation Art.No. 720-09-030
- Test-Import/Export Art.No. 720-09-028
- System Statistics Art.No. 720-09-029

Quality  0124, ISO 9001; EN 46001

Security EN 60601-1 (1996)
EN 60601-1-1 (1994)
EN 60601-1-1/A1 (1994)

EMC EN 60601-1-2 (1994)

Class Class II, Type BF
Conformity Class II a
(according to 93/42/EWG, annex IX)

Technical Data

Stationary Metabolic Stress Testing System

Measurement Method / Sensors

Method	Breath-by-Breath	
Flow Sensor	Type	Turbine
	Range	0.05 - 20 L/s
	Resolution	7 mL
	Accuracy	± 2 %
O ₂ Sensor	Type	Electrochemical Cell
	Range	0 - 60 Vol%
	t ₉₀ -Time	100 ms
	Accuracy	0.1 Vol%
CO ₂ Sensor	Type	Infrared
	Range	0 - 13 Vol%
	t ₉₀ -Time	100 ms
	Accuracy	0.1 Vol%
Heart Rate	Polar® Belt	
Pressure Sensor	Type	Silicon
	Range	500 - 1050 mbar
	Accuracy	1.8 %
Temperature Sensor	Type	NTC Thermistor
	Range	- 55 - + 155 °C
	Accuracy	1 °C

Mechanical Data

Dimensions (LxWxH)	235 x 165 x 85 mm
Weight	1300 g

Electrical Data

Warm-up Time	approx. 10 min
PC Interface	Serial (RS232)
Ext. Power Supply	Input: 100 - 250 V AC, 50 - 60 Hz Output: 12 V DC, 1.5 A

Operating Conditions

Temperature	- 10° - + 35°C
Amb. Pressure	400 - 1050 mbar
Rel. Humidity	0 - 99 %