

# EXTENSIONS AND ACCESSORIES

## CORTEX SPIROERGOMETRY

*Product brochure*



# EXTENDING LIMITS WITH SPIROERGOMETRY

**No matter what motivates and drives your test persons, push performance limits with our spiroergometry solutions.**

Enhance our powerful spiroergometry systems METALYZER® 3B and METAMAX® 3B with appropriate solutions and be perfectly prepared and equipped for all applications in performance diagnostics. Ranging from the CORTEX CANOPY-Option for the METALYZER® 3B for measuring basal and resting metabolic rate via further accessories to the unique Swim Option for the METAMAX® 3B, you will find a broad spectrum of solutions for precise diagnostics on the following pages. Another chapter informs you about the CORTEX utilities and disposables.

Please note that this brochure contains only a part of our offer. For further information, please consult our specialized trading partners or CORTEX directly.



## SYSTEM EXTENSIONS

Spirometry with the CORTEX Spirometry kit

4-in-1 with the Test Control Center

Swim Option for METAMAX® 3B

Measurement of resting metabolic rate with the CORTEX CANOPY-Option for METALYZER® 3B

**from page 4**



## CORTEX RECOMMENDATIONS

Benefits through Performance Packages

New in our assortment, the CORTEX disposable turbine

Ergometer CORTEX Bike M

**from page 12**



## SPIROERGOMETRY AND MORE

Cardiac output

Heart rate

ECG

Blood pressure

SpO<sub>2</sub> measurement

**from page 18**



## MORE ACCESSORIES

Calibration kit

Sample Flow Dryer

Reusable turbine

Battery option

Equipment trolley

**from page 24**



## SOFTWARE OPTIONS

Performance Assessment

Exercise Scheduler

Energy Metabolism

Spirometry

6-Minute-Walk-Test

Pre-operative Risk Assessment

Network Licenses

HL7 Interface

**from page 28**



# SYSTEM EXTENSIONS

1

## SPIROMETRY KIT



### *Spirometric examinations with an ergonomic mouthpiece*

*Expand your diagnosis with spirometric examinations using the practical spirometry kit and our hygienic disposable filters.*

- no need to disinfect the volume transducer
- convenient handling
- compatible with METALYZER® 3B and METAMAX® 3B
- convenient, simple reordering system for disposable filters
- uncomplicated spirometric solution as a supplement to the spirometry

#### MAIN PRODUCTS AND CONSUMABLES

#### PART-NO.

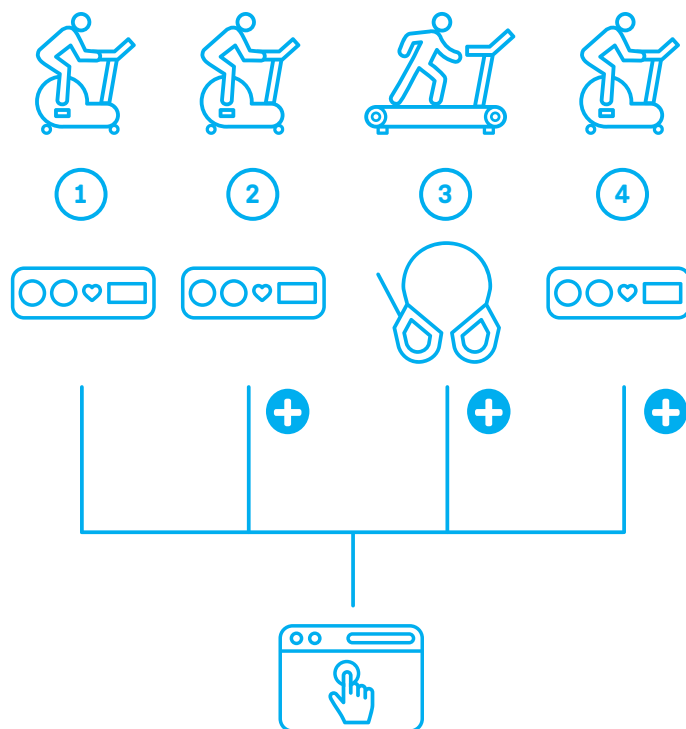
Hand holder	010-00-100
MSS Software Option Spirometry-kit incl. Software license, hand holder and filter	606-01-001
MSS Software Option Spirometry-kit incl. hand holder and filter, without license	606-01-010
2-Safety-Pack II with in-moulded mouthpiece, 1 carton à 100 pieces	500-00-029
Nose clip	500-00-021
Software license MSS Spirometry	721-09-028

## TEST CONTROL CENTER (TCC)

### Perform up to 4 spiroergometry tests simultaneously

*The Test Control Center allows you to perform and monitor up to four spiroergometry tests at the same time. Moreover, you will be completely free and flexible to choose which spiroergometry devices, ergometers and peripherals you want to combine with each other. For example, you can use up to four METALYZER® 3B, METAMAX® 3B or any combination of the CORTEX devices and then combine these with treadmills or bicycle ergometers of your choice.*

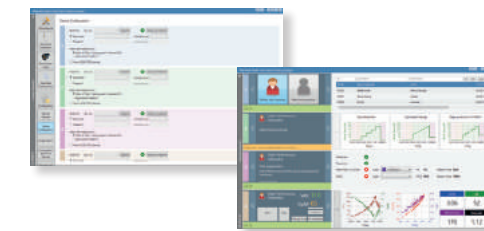
Each test can be started, monitored and stopped completely independently of the others, so that all test persons can pass their individual test. The software clearly presents all intuitively utilizable controls for the four tests.



The Test Control Center is ideal for intensive training centers, sports centers and rehabilitation facilities, where a large number of athletes and patients are supposed to be looked after, or where many comparative tests are created within a narrow time window, e.g. during aptitude tests for young cadres.

### Your benefits

- intuitive user interface in MetaSoft® Studio
- perform up to 4 tests simultaneously
- one operator can monitor up to four tests
- only 1 computer is necessary
- can be combined with METAMAX® 3B and METALYZER® 3B as required



### TCC basic package

The basic package is your introduction to the Test Control Center (TCC). This includes the software license for MSS Test Control Center, a complete METALYZER® 3B package with corresponding accessories and the application software MetaSoft® Studio, including connections, adapters and masks, as well as one BT Smart HR belt for measuring heart rate.

### TCC extension

With the TCC extension package you can gradually purchase up to three additional CORTEX spiroergometry devices including the accessories required for the number of test persons.

#### MAIN PRODUCTS

#### PART-NO.

TCC basic package METALYZER® 3B (R3)	236-01-410
TCC extension METALYZER® 3B (R3)	236-01-420
METAMAX® 3B (R2) package	136-01-702



## SWIM OPTION FOR METAMAX® 3B



### The spiroergometry solution for swimming\*

**Benefit from the performance diagnostics through spiroergometry also in swimming. With the specially developed Swim Option for METAMAX® 3B, CORTEX enables exact performance physiological examinations even in water.**

- suitable for a flow channel, pool and open water
- ergonomically designed special snorkels for freestyle and backstroke swimming with an integrated saliva suction device and splash-water protection
- integrated heart rate module with 5 kHz technology under water and Bluetooth® communication over water
- waterproof, shockproof transport case
- 12-hour operating time using battery option

### THE SYSTEM CONTAINS ET AL.

- Carrying case
- Retrieval device, portable tube/cable holder
- Battery option for METAMAX® 3B
- Sample-Flow-Dryer, special sample line and dry granules
- CORTEX-HR module for swimming, wireless charger
- BT Smart HR belt
- Freestyle and backstroke snorkels with splash-water protection
- Volume transducer, disposable turbines, nose clips

### MAIN PRODUCTS AND CONSUMABLES

	PART-NO.
CORTEX Swim Option	632-01-010
Dry granules	010-00-023
Hydrophobic filter for special sample line	010-15-161
Special sample line (Tube in Tube), 3 m	632-01-080
Freestyle/backstroke snorkel	632-14-004
Backstroke snorkel	632-14-005
Disposable turbines (1 carton)	010-15-500
Sample-Flow-Dryer	132-01-081
CORTEX HR module swim	632-20-025
METAMAX® 3B	**

\* **Note:** use only with the METAMAX® 3B (R2)

\*\* **Note:** detailed information can be found in our brochure METAMAX® 3B



PROFESSIONAL PERFORMANCE DIAGNOSIS  
FOR SWIMMING



## CANOPY-OPTION FOR METALYZER® 3B



### *The extension for measuring the basal and resting metabolic rate*

*The CORTEX CANOPY-Option\* for METALYZER® 3B makes it possible to measure the basal metabolic rate and the resting metabolic rate without the test persons being affected by the mask.*

- reliable measurement according to the gold standard
- particularly suitable for long measurements (without a mask)
- easy to clean and to disinfect
- fully automatic control of the hood ventilation
- high patient safety due to the automatic alarm function

#### THE SYSTEM CONTAINS ET AL.

Basic unit
Hood with veil
Tube
Bacterial- and viralfilter disposable (Pulmosafe)

#### MAIN PRODUCTS AND CONSUMABLES

	PART-NR.
CORTEX CANOPY option (total package)	636-01-250
CANOPY-hood	636-01-001
CANOPY-veil for hood	636-01-015
CANOPY-tube	636-00-013
Pulmosafe bacterial- & viralfilter	500-00-019
METALYZER® 3B	**

\* **Note:** use only with the METALYZER® 3B (R3)

\*\* **Note:** detailed information can be found in our brochure METALYZER® 3B

THE NEW FREEDOM IN MEASURING  
THE BASAL AND RESTING  
METABOLIC RATE



# CORTEX RECOMMENDATIONS

**Do you already know our new, worldwide unique disposable turbine for spiroergometry? – The hygienic solution!**

To make it easier for you to choose from our constantly growing product and service portfolio, we offer you the most popular combinations as pre-configured packages.

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## DISPOSABLE TURBINE



**The first disposable turbine worldwide for spiroergometry**

**The singly packaged CORTEX disposable turbines in the practical dispenser box saves you the trouble of cleaning, disinfecting and calibrating a conventional turbine. This will considerably reduce the amount of work you do between two measuring sessions, and all this takes place under the best possible hygienic conditions.**

- no cleaning and disinfection necessary
- perfect hygiene
- simple handling – easy to change
- no calibration necessary
- starting from 100 pieces in a convenient dispenser box
- suitable for both athletes and patients

### TECHNICAL DATA

Peak flow	up to 14 l/s
Accuracy	± 3 % or 50 ml (whichever is the greater)
Inside diameter	30 mm

### MAIN PRODUCTS AND CONSUMABLES

	PART-NO.
CORTEX disposable turbine 1 carton à 100 pieces*	010-15-500
Mask adapter for CORTEX flow sensor with disposable turbine	010-00-101
Electronic for volume transducer and disposable turbine METALYZER® 3B	236-01-021
Electronic for volume transducer and disposable turbine METAMAX® 3B	136-01-021

\* Note: bulk prices for 1000 or 5000 turbines



### **The Service Package for high investment and planning security**

The Service Package contains a stock of consumables and accessories that are meant to enable one to work as independently as possible during the first years. The warranty extension of 3 years\* which is also included in the package, gives you additional planning and cost security for your projects and studies. In addition, the operating costs are significantly reduced by the package.

\* **Note:** this can further be extended as required, see warranty extension



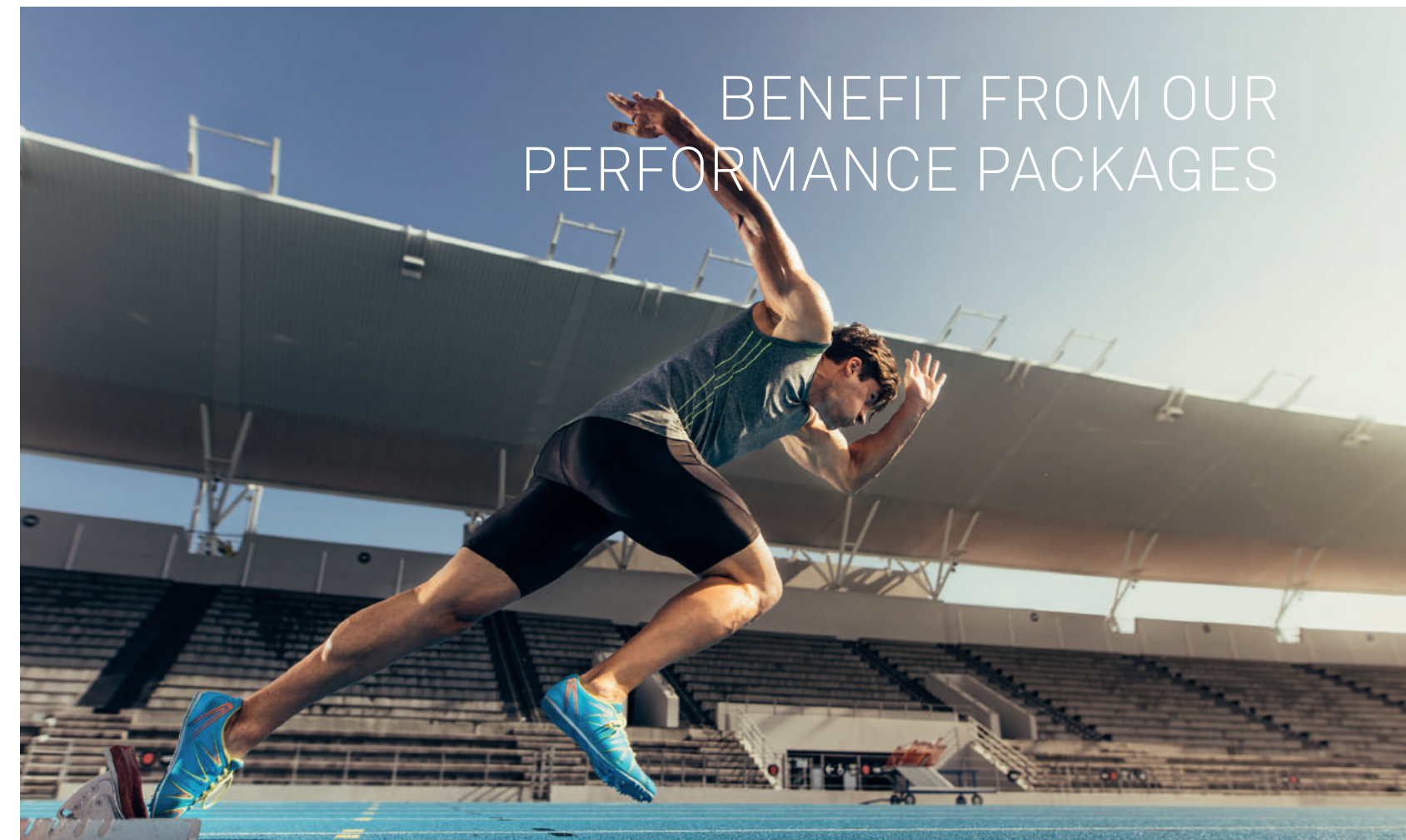
### **Performance Package METALYZER® 3B**

The METALYZER® 3B Performance Package already includes the most commonly used hardware and software options in sports and preventative medicine. In addition, the package contains one calibration kit, one mask extension set and a larger stock of consumables.

### **Performance Package METAMAX® 3B**

This package includes products contained in the Performance Package METALYZER® 3B as well as other accessories specific to the METAMAX® 3B, such as a GPS receiver, back carrying system and a stationary kit for the optimal use of the METAMAX® 3B also in the laboratory with a 2-meter long sample line and a power supply unit.

<b>PACKAGE</b>	<b>METALYZER® 3B</b>	<b>METAMAX® 3B</b>
Service Package	236-06-905	136-06-905
Performance Package	236-01-500	136-01-500





## CORTEX WARRANTY EXTENSION

**We provide a 2-year warranty on every CORTEX system.\*  
With the CORTEX warranty extension, you can renew this time frame as you wish and without limitation.**

CORTEX offers you attractive guarantee packages for the spiroergometry systems METALYZER® 3B (R3) and METAMAX® 3B (R2), graded according to the scope and term. The protection covers the free repair and troubleshooting of hardware and software as well as regular, free software updates.

### Take advantage of longer terms

Choose long terms as required and profit from an attractive price graduation.

\* **Note:** in connection with the service package of 3 years

### Your benefits

- 100 % warranty directly from the manufacturer
- individual terms
- particularly attractive conditions for longer terms
- effective protection from unforeseeable repair costs
- free return of your device after repair



TERM	METAMAX® 3B	METALYZER® 3B
1 additional year	690-01-020	690-01-030
2 additional years	690-01-021	690-01-031
3 additional years	690-01-022	690-01-032

## CORTEX BIKE M

### The all-rounder among the ergometers

**With its simple operating concept, low boarding height and electrically adjustable seat, the CORTEX Bike M is the ideal ergometer for daily use in clinics, hospitals and training facilities.**

- open, low entry
- continuous, electrical seat height adjustment
- patient weight up to 200 kg
- high stability
- LCD display with remote control, ergometry and manual operation
- large workload range (6-1000 Watts)
- optional blood pressure measurement and/or SpO<sub>2</sub>



### MAIN PRODUCTS AND CONSUMABLES

	PART-NO.
CORTEX Bike M	610-01-040
Automatic blood pressure measurement	610-05-051
Oxygen saturation measurement	610-05-050
Triathlon handlebar	610-00-011
Horizontal saddle adjustment	610-00-012
Quick release skewers without saddle	610-00-097

# SPIROERGOMETRY AND MORE

*The METALYZER® 3B and the METAMAX® 3B provide a very detailed picture of the cardiopulmonary efficiency.*

We also offer a variety of solutions for heart rate, electrocardiography and blood pressure diagnosis to provide a broader focus. A new addition is the non-compliance-based and non-invasive cardiac output measurement.

Here you can find a small selection of suitable devices that are easily compatible with our systems. In addition, our MetaSoft® Studio application software provides a large number of interfaces for measuring devices of other suppliers. Please contact us for a list of all deliverable or compatible manufacturers and models.

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## PHYSIOFLOW® ENDURO



### Non-invasive measurement of cardiac output

*The PhysioFlow® Enduro is a high-resolution impedance-cardiography device. Use this device to continuously measure cardiac output, stroke volume and ejection fraction non-invasively, non-compliance-based and without influencing the spiroergometry.*

- non-invasive determination of the cardiac output
- objective findings independent of patient cooperation at rest and under load
- portable, lightweight system
- accurate assessment of the haemodynamic condition
- measurement on treadmill and ergometer

#### MAIN PRODUCTS AND CONSUMABLES

	PART-NO.
PhysioFlow® unit	681-01-100
Sensor kits for PhysioFlow® Enduro*, 200 pieces**	681-05-001
Patient cable for PhysioFlow® Enduro	681-05-010
Bluetooth® antenna for PhysioFlow® Enduro	681-05-011
Pouch for PhysioFlow® Enduro	681-05-012

\* **Note:** Please use only original electrodes, otherwise we shall not be able to guarantee reliable results.

\*\* **Note:** Sensor kits are available in different packaging units. Please inquire from us.



## BT SMART HR BELT



### Heart rate measurement

We recommend the use of a convenient chest belt for monitoring the heart rate. The heart rate is transmitted automatically to the METAMAX® 3B or METALYZER® 3B by means of a stable and energy efficient Bluetooth® transmission.

- Bluetooth® Smart-technology and encrypted 5 kHz-signal transmission
- comprehensive connectivity to physical fitness apps and diagnostics devices
- comfortable grip by means of an elastic belt, soft materials and secure locking system
- integrated connection to the spiroergometry software

MAIN PRODUCTS	PART-NO.
BT Smart HR belt	000-45-030

## CUSTO GUARD



### 1- or 3-channel ECG

Using the 1- or 3-channel ECG custo guard, we offer mobile electrocardiography measurement in the practical sports belt.

- energy-saving wireless transmission to METAMAX® 3B or METALYZER® 3B
- simultaneous display of spiroergometry and ECG in MetaSoft® Studio
- light weight and reliable grip, even with extreme physical activity
- waterproof

MAIN PRODUCTS	PART-NO.
3-channel ECG set	840-01-020
1-channel ECG set	840-01-021

## CUSTO CARDIO 400



### Resting / Stress Test ECG

An improved pacemaker detection, the new custo true wave® filters, a sampling rate of up to 32 kHz and the high functionality transform the custo cardio 400 into a 12-channel ECG of the latest generation.

- a sampling rate of up to 32 kHz
- data transmission via USB and Bluetooth®
- defibrillation protection for dielectric strength of 5000 V
- suction capacity of 6 steps, 0 - 280 mbar
- electrode check with automatic indication of quality

MAIN PRODUCTS	PART-NO.
custo cardio 400	350-01-025
Software option MSS meta control 3000	721-09-013

**Note:** Further accessories like batteries, electrodes, suction unit etc., available on request.

## CUSTO CARDIO 300



### Mobile 12-channel ECG

The mobile 12-channel resting/stress test ECG has integrated LEDs which give information about the signal quality.

- Sampling rate up to 32 kHz for higher resolution and improved pacemaker detection
- start/stop button for ECG recording
- battery runtime of 10 hours

MAIN PRODUCTS	PART-NO.
custo cardio 300 BT accu - ERG*	350-01-076
custo cardio 300 BT battery - ERG*	350-01-077
Patient cable for cardio 300 (clip) long	840-05-016
Software option MSS meta control 3000	721-09-013

\* **Note:** including short patient cable



## NONIN® PULSE OXIMETER



### Determine oxygen repletion

The Nonin® pulse oximeter WristOx2® Model 3150 delivers very accurate measurements for all sorts of patient groups and attitudes. It makes it possible to carry out cardiological supervision of out-patients, wireless remote monitoring and overnight feasible studies, both in the hospital and in a private setting.

- a well-thought-out, intuitive operating concept
- Bluetooth® 2.0 technology with a range of up to 100 m
- measuring technology for use in clinical studies, among others
- high skin compatibility according to the guidelines (RoHS)
- extremely robust technology for intensive, long-lasting use in clinics and private households

MAIN PRODUCT	PART-NO.
Nonin® Pulse Oximeter	671-00-011

## SUNTECH® TANGO M2



### Automatic blood pressure measurement

The Tango M2 conceived for stress tests on the treadmill and ergometer was specifically developed to filter out signal interferences caused by movements of the test persons.

- display of the systolic reading in less than 15 seconds, or of the whole blood pressure reading within 30 seconds
- automatic communication with METAMAX® 3B and METALYZER® 3B
- close measuring intervals selectable at time-critical moments or patient emergency situations

MAIN PRODUCTS	PART-NO.
Suntech® Tango M2	421-01-001
QRS-Trigger-Software custo med license	720-00-400
CORTEX-custo Trigger Cable Tango M2	420-01-011

## BLOOD PRESSURE MEASUREMENT OPTION



### In conjunction with the CORTEX Bike M

You can supplement the blood pressure option\* using the ergometer CORTEX Bike M. The delivery includes a standard cuff. Other cuff sizes can be obtained on request.

MAIN PRODUCT	PART-NO.
Automatic blood pressure measurement	610-05-051

\* Note: only in conjunction with the CORTEX Bike M



# MORE ACCESSORIES

*Get a selection of accessories and accessory parts together with their respective order numbers from here.*

Some products are available in specific countries and in different sizes, configurations and with different features. Please contact us about our entire product range and all delivery options.

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## CALIBRATION KIT PROFESSIONAL



### *The complete calibration solution*

*A complete set for the calibration of gas and volume flow sensors of all CORTEX spiroergometry devices, meant to guarantee optimal functionality of the systems.*

- calibration gas syringe, 3 l
- calibration gas bottle
- gas-on-demand valve with adapter
- carrying case, calibration gas bottle holder

MAIN PRODUCTS	PART-NO.
Calibration Kit Professional with carrying case	010-01-793
Calibration gas bottle	010-00-005
Calibration syringe 3 l	010-00-083
Gas-on-demand-valve	010-01-898

## SAMPLE FLOW DRYER



### *Reducing humidity in the breathing air*

*The accuracy of measurement is influenced by high humidity such as the one experienced in tropical or cold regions and in applications in swimming. To guarantee accurate measurement also under these conditions, the Sample Flow Dryer dries the inhaled air with the help of dry granules before it is analyzed by the sensors.*

MAIN PRODUCTS	PART-NO.
Sample-Flow-Dryer	136-01-081
Dry granulate	010-00-023
Sample line for Sample Flow Dryer, 60 cm	136-01-026
Special sample line for Swim Option, 3 m	632-01-080

## REUSABLE VOLUME TURBINE



### The reusable alternative to the disposable turbine

Use the volume turbine for stable and reliable measurement results in daily medical care and sports or also under extreme environmental test conditions, both indoors and outdoors.

- conceived for patients, amateur athletes and top athletes
- precise nano-production for stable and reliable test results
- suitable for all common disinfectants
- designed for METAMAX® 3B and METALYZER® 3B

#### TECHNICAL DATA

Peak flow	≤ 20 l/s
Accuracy	± 2 %
Inside diameter	28 mm

#### MAIN PRODUCTS

	PART-NO.
Electronic assembly for METAMAX® 3B (R2)	136-01-007
Electronic assembly for METALYZER® 3B (R3)	236-01-013
Sieve	010-15-146

## BATTERY OPTION FOR METALYZER® 3B

### Be independent of the power grid

With the battery option, you are completely self-sufficient from the power supply during operation. Simply leave the device switched on if you would like to transport it from patient to patient without having to restart and recalibrate it every time. The battery option also prevents you from losing measured data in case of power failure, saving you the need to re-prepare the device and patient for testing.

#### MAIN PRODUCTS

	PART-NO.
METALYZER® 3B with battery option	236-01-720
Retrofit set for battery option	On request

## CORTEX MOBILE PLUS

### All devices in a practical trolley

The CORTEX mobile PLUS trolley offers sufficient space for all the testing and computer accessories. Apart from the spiroergometry device, the option enables the conveniently storing of one or two TFT screens, a computer and all other necessary accessories.

- large drawer for small components and consumables with kink protection for cables
- cable conduit integrated into the device column
- calibrating bottle and pump fixed under the drawer
- dual or single monitor mount

#### MAIN PRODUCTS AND CONSUMABLES

	PART-NO.
Trolley CORTEX mobile PLUS with 19" TFT dual monitor bracket *	821-01-030
Trolley CORTEX mobile PLUS with 19" TFT single monitor bracket *	821-01-031
Printer shelf	821-00-030
Tray for METAMAX® 3B	821-01-015

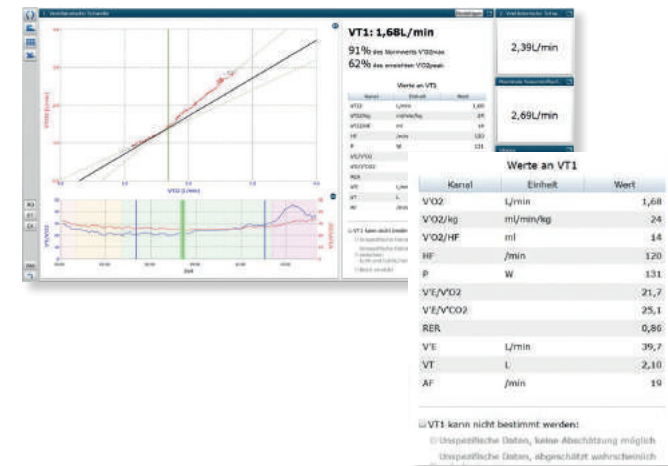
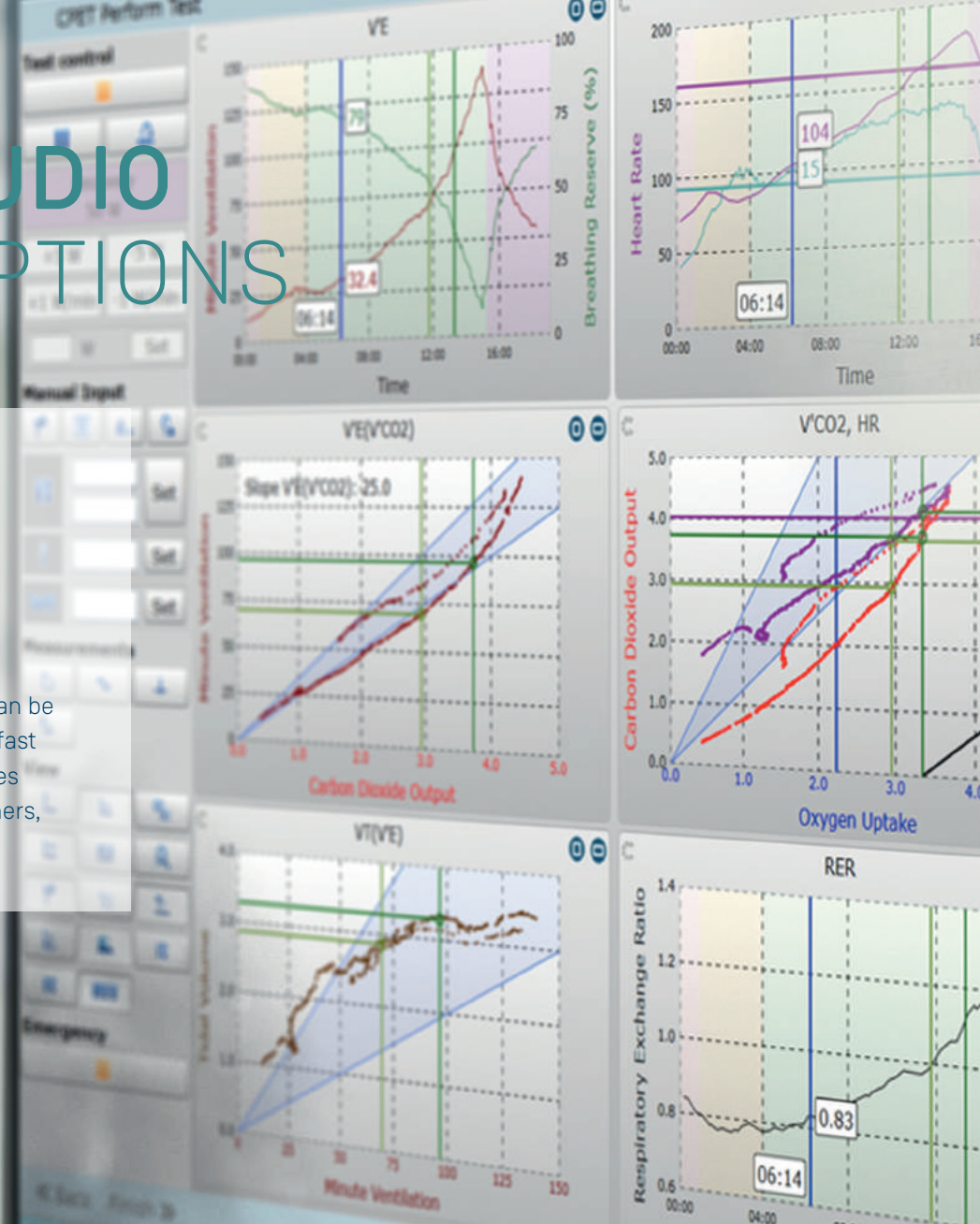
\* Note: different country-specific versions available



# METAsoft® STUDIO SOFTWARE OPTIONS

*Like no other application software, MetaSoft® Studio combines the complexity of spiroergometric examinations with an extremely intuitive user interface.*

With its versatile software options, daily test routines can be designed even more comfortably. If the focus is on the fast and reliable analysis of the medical data, the possibilities of using the Wasserman interpretation help, among others, or pre-operative risk assessment are useful options.



## MSS PERFORMANCE ASSESSMENT

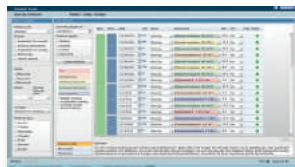


*Effective training with the help of accurate training areas*

*The software option CORTEX MSS Performance Assessment identifies optimal training areas using established indicators (among others VT1, VT2, VO2 max, HRmax). On this basis, individualized heart rate training areas can be determined for different load phases and training goals.*

- determination of individual heart rate training areas
- individual zone models can be generated
- accurate determination of VT1 and VT2 (AT and RC)
- manual adjustment of thresholds and training zones possible

## MSS EXERCISE SCHEDULER



**Enter concrete training guidelines**

*The CORTEX MSS Exercise Scheduler transfers the results of the MSS Performance Assessment into a graphic training plan which is organized like a time table. Based on the previously established performance level, defined framework conditions like training goal, load increase, frequency and type of sports activity, training plans are generated in the micro, meso and macro cycle.*

- clear training plans in the micro, meso or macro cycle
- reference training plans for numerous sports types, prevention and rehabilitation measures
- motivation through clear training plans
- designing of personal training plans

## MSS ENERGY METABOLISM FOR CPET



**Optimize fat and carbohydrate combustion**

*MSS Energy Metabolism measures the individual energy metabolism, the combustion of fats and carbohydrates with increasing loads, and establishes the optimal heart rate zones for improved economization of the metabolism.*

- determination of the increasing energy metabolic rate with increasing load
- determination of fat and carbohydrate combustion
- determination of individual heart rate zones for optimal energy burning and training effects
- motivation of patients through clear evaluations and reporting functions

## MSS BASAL AND RESTING METABOLIC RATE

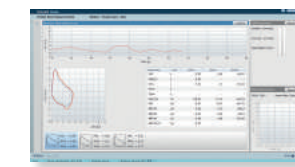


**Determine the exact energy metabolic rate individually**

*As a reliable basis for a controlled calorie intake, e.g. in the context of a recommended nutritional plan, an accurate and individual determination of the resting or basal metabolic rate is imperative. This option measures the individual energy metabolic rate in a secure, intuitive and valid way.*

- determination of the individual basal and resting metabolic rate with a mask or the CANOPY
- separate representation of energy, carbohydrate and fat consumption
- motivation of patients through clear evaluations and reporting functions

## MSS SPIROMETRY



**Perform a pulmonary function test**

*All CORTEX spiroergometry systems can also be used as spirometers. The software option MSS Spirometry offers VC, FVC and MVV tests as well as numerous other measurement, calculation and comparison options.*



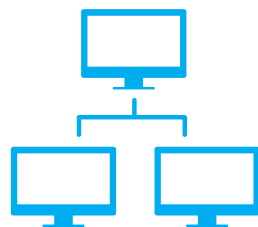
## MSS 6-MINUTE-WALK-TEST

The 6-minute-walk-test is an approved method for the evaluation of COPD as well as for therapy control in rehabilitation. With our software option the advantages of spiroergometry are added to the system. Do not only measure the cardiopulmonary reaction of the test persons directly during the 6 minute walk test, but also compare it with the results of classical spiroergometry.

## MSS PRE-OPERATIVE RISK ASSESSMENT

This license contains a module in which the assessor is guided through a partially automatic interpretation of results which is especially designed with pre-operative risk assessment in mind. Make easier decisions on operative risks from a patient and get more certainty for planned interventions.

## MSS NETWORK LICENSE BASIS



The MSS network license basis allows you to install the software on as many workplaces as required with one common database. Up to 3 users can work with the software simultaneously.

## MSS NETWORK-EXTENSION



The MSS Network Extension allows you to increase the number of simultaneous accesses to the network version of MetaSoft® Studio.

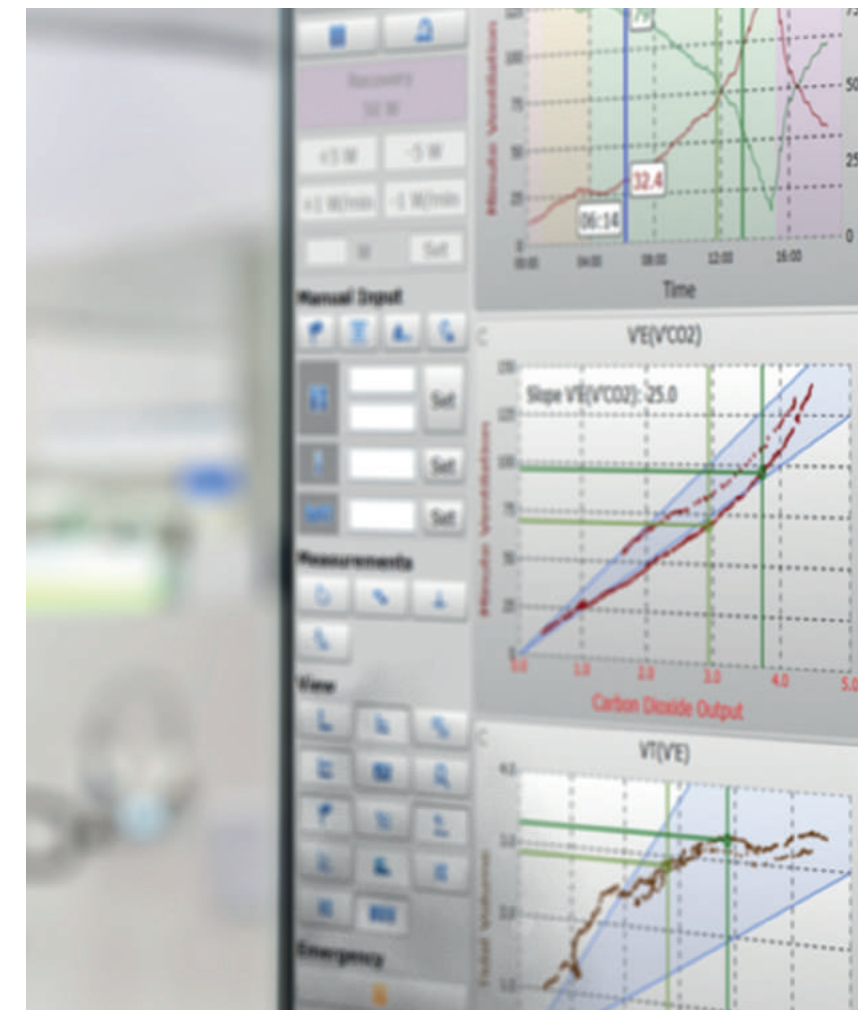
## MSS HL7 INTERFACE

The MSS HL7 Interface option provides you with extensive configuration options for connecting to a hospital information system. Please note that special effort can be calculated for setting up the interface.

### SOFTWARE OPTION

### PART-NO.

MSS Performance Assessment	721-09-020
MSS Exercise Scheduler	721-09-021
MSS Energy Metabolism for CPET	721-09-022
MSS Basal and Resting Metabolic Rate	721-09-023
MSS Spirometry	721-09-028
MSS Network License Basic	721-09-011
MSS Network License Extension	721-09-008
MSS 6-Minute-Walk-Test	721-09-035
MSS HL7 Interface	721-09-029
MSS Pre-operative Risk Assessment	721-09-025



## The entire spectrum of spiroergometry

Configure your CORTEX spiroergometry system according to your individual requirements. You have a great variety of options and performance packages at your disposal.

Volume Transducer	Hardware Options	Packages	Trolley & PC	Ergometer	HR/ECG	PhysioFlow/BD/SpO <sub>2</sub>	Software Options	Accessories & Spare Parts
<ul style="list-style-type: none"> <li>ⓘ CORTEX volume transducer disposable (p. 13)               <ul style="list-style-type: none"> <li>disposable turbines</li> <li>flow electronics</li> </ul> </li> <li>ⓘ CORTEX volume transducer reusable (p. 26)               <ul style="list-style-type: none"> <li>turbine</li> <li>flow volume electronic</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>⊕ battery option (p. 27)</li> <li>⊕ stationary kit (p.27)               <ul style="list-style-type: none"> <li>⊕ power supply</li> <li>⊕ extension for volume sensor</li> <li>⊕ sample line 2 m</li> </ul> </li> <li>⊕ GPS</li> <li>⊕ backpack system</li> <li>⊕ sample flow dryer</li> <li>ⓘ calibration kit (p. 25)               <ul style="list-style-type: none"> <li>⊕ gas-on-demand valve</li> <li>⊕ gas bottle</li> <li>⊕ 3 liter syringe</li> <li>⊕ box</li> </ul> </li> <li>⊕ CANOPY-Option for METALYZER® 3B (p. 10)               <ul style="list-style-type: none"> <li>⊕ CANOPY</li> <li>⊕ veil</li> <li>⊕ tube</li> <li>⊕ adapter</li> </ul> </li> <li>⊕ spirometry kit (p. 5)               <ul style="list-style-type: none"> <li>⊕ spirometry (SW)</li> <li>⊕ hand holder for CORTEX reusable flow sensor</li> <li>⊕ 100 disposable filters &amp; nose clips</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>⊕ performance package (p. 14)</li> <li>⊕ service package (p. 14)</li> <li>⊕ Swim Option for METAMAX® 3B (p. 8)</li> <li>⊕ Test Control Center (p. 6)               <ul style="list-style-type: none"> <li>ⓘ for 2 CPET devices</li> <li>ⓘ for 3 CPET devices</li> <li>ⓘ for 4 CPET devices</li> </ul> </li> <li>⊕ warranty extension (p. 16)</li> </ul>	<ul style="list-style-type: none"> <li>⊕ CORTEX mobile Plus dual monitor (p. 27)               <ul style="list-style-type: none"> <li>⊕ printer shelf</li> <li>⊕ support arm</li> </ul> </li> <li>⊕ CORTEX mobile Plus single monitor (p. 27)               <ul style="list-style-type: none"> <li>⊕ printer shelf</li> <li>⊕ support arm</li> </ul> </li> <li>ⓘ PC</li> <li>ⓘ monitor</li> <li>ⓘ laptop</li> <li>ⓘ printer</li> </ul>	<ul style="list-style-type: none"> <li>CORTEX Bike M (p. 17)               <ul style="list-style-type: none"> <li>⊕ seat height adjustment (motor)</li> <li>⊕ integrated BP</li> <li>⊕ integrated SpO2</li> <li>⊕ adjustable pedal cranks</li> <li>⊕ triathlon handle bar</li> <li>⊕ adaptation for pediatric ergometry</li> </ul> </li> <li>CORTEX TM Sport               <ul style="list-style-type: none"> <li>⊕ fall stop</li> <li>⊕ handrail</li> </ul> </li> <li>CORTEX TM High Performance               <ul style="list-style-type: none"> <li>⊕ fall stop</li> <li>⊕ handrail</li> </ul> </li> <li>more               <ul style="list-style-type: none"> <li>ⓘ Lode</li> <li>ⓘ Cyclus II</li> <li>ⓘ SRM</li> <li>ⓘ Woodway</li> <li>ⓘ HP Cosmos</li> <li>ⓘ Monark</li> <li>ⓘ Ergoline</li> </ul> </li> <li>interfaces               <ul style="list-style-type: none"> <li>⊕ TrackMaster</li> <li>⊕ Micromed</li> <li>⊕ Marquette</li> <li>⊕ Quinton</li> <li>⊕ Motek Force</li> <li>⊕ TechnoGym</li> <li>⊕ ...</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>⊕ Polar H10</li> <li>⊕ BT smart HF sensor (p. 20)</li> <li>⊕ MSS 1-lead guard (p. 20)</li> <li>⊕ MSS 3-lead guard (p. 20)</li> <li>⊕ custo cardio 400 (p. 21)               <ul style="list-style-type: none"> <li>⊕ MC3000 interface</li> </ul> </li> <li>⊕ custo cardio 300 (p. 21)               <ul style="list-style-type: none"> <li>⊕ MC3000 interface</li> </ul> </li> <li>ⓘ ECG - electrodes custo med</li> <li>ⓘ ECG - electrodes blue sensor</li> <li>⊕ 12-lead ECG interface               <ul style="list-style-type: none"> <li>⊕ Schiller</li> <li>⊕ GE</li> <li>⊕ Micromed</li> <li>⊕ AmedTec</li> <li>⊕ Dr. Schmitt</li> <li>⊕ Ergocid</li> <li>⊕ Spacelabs</li> <li>⊕ Norav</li> <li>⊕ Medset</li> <li>⊕ Labtech</li> <li>⊕ Welch Allyn</li> <li>⊕ ...</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>⊕ PhysioFlow (p. 19)               <ul style="list-style-type: none"> <li>⊕ PhysioFlow license</li> <li>⊕ PhysioFlow electrodes</li> <li>⊕ PhysioFlow cable</li> <li>⊕ bag</li> <li>⊕ batteries</li> <li>⊕ charger</li> </ul> </li> <li>⊕ PhysioFlow electrodes (p. 19)               <ul style="list-style-type: none"> <li>⊕ for 50 tests</li> <li>⊕ for 200 tests</li> </ul> </li> <li>⊕ Tango M2 for use with custo med (p. 23)               <ul style="list-style-type: none"> <li>ⓘ custo trigger cable</li> <li>ⓘ QRS trigger software license</li> </ul> </li> <li>⊕ Tango M2 with ECG module (p. 23)</li> <li>⊕ Nonin wrist Ox2 3150 (p. 22)</li> </ul>	<ul style="list-style-type: none"> <li>⊕ MSS Energy Metabolism for CPET (p. 30)</li> <li>⊕ MSS Performance Assessment (p. 29)               <ul style="list-style-type: none"> <li>⊕ MSS Exercise Scheduler</li> </ul> </li> <li>⊕ MSS Pre-operative Risk Assessment (p. 32)</li> <li>⊕ MSS Interpretation Assistant by Wasserman</li> <li>⊕ EOv Detection</li> <li>⊕ PhysioFlow License</li> <li>⊕ MSS Spirometry (p. 31)               <ul style="list-style-type: none"> <li>⊕ hand holder</li> </ul> </li> <li>⊕ MC3000 Interface (custo med)</li> <li>⊕ 12-lead ECG Interface</li> <li>⊕ MSS Basal- &amp; Resting Metabolic Rate (p. 31)</li> <li>⊕ MSS HL7 Interface Activation License (p. 33)</li> <li>⊕ MSS Network License Basic (p. 32)               <ul style="list-style-type: none"> <li>⊕ MSS Network License Extension</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>ⓘ face masks               <ul style="list-style-type: none"> <li>pediatric 1</li> <li>pediatric 2</li> <li>petite</li> <li>XS</li> <li>S</li> <li>M</li> <li>L</li> </ul> </li> <li>ⓘ head cap</li> <li>ⓘ adapter for face mask</li> <li>ⓘ sample line               <ul style="list-style-type: none"> <li>0.6 m</li> <li>2 m</li> </ul> </li> <li>ⓘ turbine with sieve - reusable (p. 26)</li> <li>ⓘ turbine - disposable (p. 13)               <ul style="list-style-type: none"> <li>⊕ 100 pieces</li> <li>⊕ 500 pieces</li> </ul> </li> <li>ⓘ O2 sensor METALYZER® 3B</li> <li>ⓘ O2 sensor METAMAX® 3B</li> <li>ⓘ bacterial filter spirometry</li> <li>ⓘ PhysioFlow electrodes (p. 19)               <ul style="list-style-type: none"> <li>⊕ for 50 tests</li> <li>⊕ for 200 tests</li> </ul> </li> <li>ⓘ ECG electrodes custo med</li> <li>ⓘ ECG electrodes blue sensor</li> </ul>



## *The whole spectrum of spiroergometry*

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