

CARDIOVIT CS-200 Ergo-Spiro



Ergospirometry in perfection



SCHILLER

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The Art of Diagnostics

Powerful Ergospirometry



A multitude of functions – all in one device!

SCHILLER's: CARDIOVIT CS-200 Ergo-Spiro:
The complete function analysis of heart, lung, blood circulation and metabolism. This device covers all areas of cardiopulmonary diagnostics. Whether for cardiology, pneumology, sports or industrial medicine, this multifunctional exercise testing system is the solution to every need.

Breath-by-breath analysis!

Every breath and every heartbeat is analyzed according to the individually set parameters and shown on the monitors in real time. With its monitor, the one-of-a-kind CARDIOVIT CS-200 Ergo-Spiro allows direct visual comparison of ergospirometrical and ECG data! Various interfaces guarantee perfect data transfer of the saved values to Patient Data Management Systems (PDMS).

Its extremely easy handling makes it one of the best-selling cardiopulmonary diagnosis systems.



Technical Data:

Technical Description Gas Analyzer:

Measurements: 15 x 15 x 15 cm (l x h x w)

Weight: 2,35 kg

Power supply: 100 – 240 V, 50/60 Hz

Safety Class: VDE II, safety insulated, Class BF, IEC 60601-1

Measurement Methods:

Breath-by-breath gas analysis

Flow volume processing according to ECCS or ATS

Amount of gas adjusted with STPD.

Environmental sensors:

- Temperature: 0 to 50° C

- Barometer pressure: 600 to 1050 mBar
(measurement range: -100 to 3500 m above sea level)

Flow measurement (patented diaphragm spiropceptor):

Flow sensor insensitive to moisture

Measurement range 0 to ± 17 l/sec., max. deviation ± 2.5 %, volume range 0 to 300 l, resolution 10 ml/sec.

Gas analyzer

O₂ chemical cell:

Measurement range: 0 to 100 % O₂

Measurement accuracy: Better than ± 0.1 %

Response time: < 80 msec. (10 to 90 %)

Ultra sound density method analyzer CO₂:

Measurement range: 0 to 17.5 % CO₂

Measurement accuracy: Better than ± 0.1 %

Response time: < 80 msec. (10 to 90 %)

Fully automatic zero alignment and calibration of the gas analyzers at minimal gas consumption

Automatic measurement of ambient conditions

Manual entry of blood gas values (lactate etc.)

Software:

Operation system: Windows™ XP

Parameters: METS, VT, VE, fR, VO₂, VCO₂, RER, VE/V, VO₂, VCO₂ equivalents, O₂-pulse, VD/VT, FEO₂, FEEO₂ as well as secondary parameters

Automatic determination of the anaerobic threshold after V-slope, CO₂ excess or RER=1

Scaling optimization for the diagrams

Editing possibility for all basic parameters

Export/import function with standardized protocols for integration into HIS

Technical data of CARDIOVIT CS-200:

See specific brochure

Operating Conditions:

Ambient temperature: Between 10 and 40° C

Relative humidity: Between 30 and 90 %

Atmospheric pressure: Between 900 and 1060 hPa

All technical data is subject to changes aiming to continued innovations. The PowerCube produced by Ganshorn Medizin Electronic GmbH, Niederlauer, Germany, has been integrated into the CARDIOVIT CS-200 Ergo-Spiro device. It fully complies with SCHILLER's view on quality.

All in one!

- Simultaneous presentation of all cardio-pulmonary parameters and graphs on two monitors
- Real breath-by-breath gas determination of metabolic and hemodynamic parameters during resting and exercise tests
- Bi-directional flow sensor insensitive to moisture
- Limit monitoring of any parameter with alarm functions
- Automatic control of ergometer using configurable profiles
- Compact system
- Economical, as all accessories are sterilizable and reusable
- Integrated interpretation program according to Karlman Wasserman
- Free combination of parameters and graphs for individual result protocols
- Operating system: Windows™ XP
- Network ability of CARDIOVIT CS-200 Ergo-Spiro



Your specialist:



The Art of Diagnostics

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