

CASE ES Ergospirometry Testing System

Cardiopulmonary Exercise Test (CPET) for informed treatment decision

The CASE ES system combines the quality of the CASE Exercise Testing System with the power of the Ganshorn PowerCube in one platform, to provide physicians with accurate and reliable cardiopulmonary diagnostic.

Whether you are looking to increase accuracy in diagnostic of heart failure, assess your patients surgery, or evaluate ventilatory disorders, CASE ES offers reliable analytics to help physicians make more informed treatment decisions.

Improved Quality

- Flow sensor is the cornerstone of any ergospirometry system. By incorporating Variable Orifice flow sensor technology, CASE ES offers precise ventilatory measurements, that are insensitive to water vapor, saliva or vibrations during exercise.
- The sensor which weighs only about 29 g ensures patient comfort and compliance.
- The easy-to-navigate software allows toggling between simultaneous view of all 9 Wasserman panels or full screen of each individual panel, for accurate detection of Anaerobic Threshold (AT).

Improved Access

- The seamless integration of ergospirometry software into CASE ensures that tests are easily accessible for review, editing and exporting, from any PC on your LAN.
- The test results can be transferred to your HIS/EMR systems in XML and PDF formats.



Maximized investment

- CASE ES can be installed as an upgrade of your existing CASE system making it a cost-effective solution for adding the benefits of cardiopulmonary diagnostic.
- CASE ES streamlines workflow by having frequently-used in-test controls on one screen instead of two.
- The gas sensors are maintenance free and low gas consumption during automatic calibration reduces the frequency of cylinder replacement.
- The flow sensors are easy to clean and do not require drying time, which accelerates patient throughput.



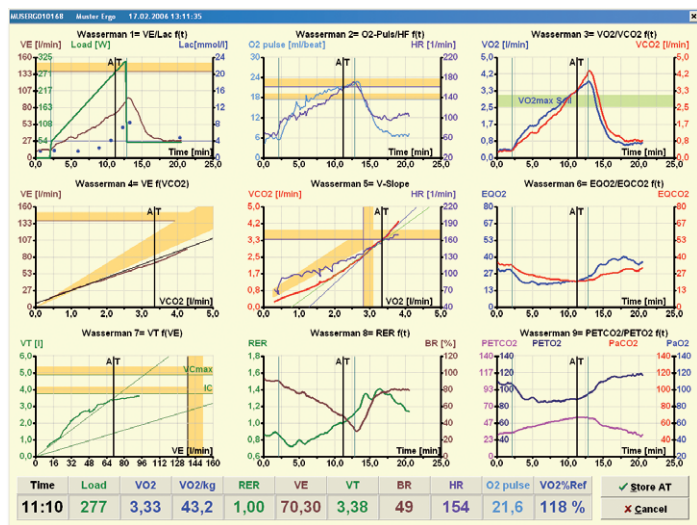
CASE ES Features include:

- Double flat screen system for simultaneous presentation of all cardiopulmonary parameters and graphs
- Color Laser Printer
- **PowerCube-Ergo**
Measurement System for Metabolic Stress Testing, consisting of:
 - PowerCube measurement module
 - LF 8 Software
 - Supplies and Accessories
- **Mounting Kit**
For mounting and installing flat screen, printer, PowerCube module and gas bottle for gas analysis

- Automated interpretation scheme according to Karlman Wasserman
- 9-panel-graphic according to Wasserman online also during the measurement

The LF8 software provides the following parameter groups:

- **Spirometry**
(e.g. IVC - Largest inspiratory measured vital capacity of the measurement maneuver, EVC - Largest expiratory measured slow vital capacity of the measurement maneuver, MV – Breathing minute volumes, MVV - Maximum ventilatory volume)
- **Flow/Volume**
(e.g. FVCex – Forced expiratory vital capacity, FVCin - Forced inspiratory vital capacity, FEV1 - Forced expiratory volume after one second)
- **Ergospirometry**
(e.g. VO_2 – Oxygen uptake, VCO_2 – Exhaled carbon dioxide volume, RER – Respiratory exchange rate, VE – Expiratory breathing volume)
- **Flow/Volume under load**
(e.g. VT – Tidal volume, IC – Inspiratory capacity)
- **Option**
 SpO_2
- **Peripheral devices**
Combination with multiple types of bicycles and treadmills, e.g. GE eBike, GE Treadmill T2000, T2100
- **Preprogrammed Exercise Protocols**
User configured with default ergometry protocols in CASE
- The final reports are printed on a Color Laser Printer



Features of the PowerCube Ergo Measurement Module:

- Quick responding and highly stable gas analyzers for real breath-by-breath-measurements
- O_2 Analyzer: Micro-fuel cell
- CO_2 Analyzer: Ultrasound

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GE imagination at work

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