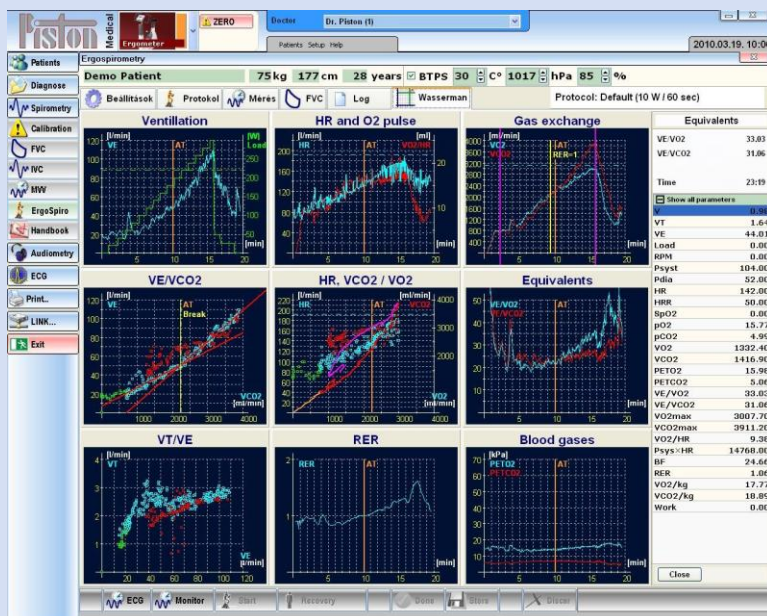


HDcpet 6000 *Cardiopulmonary Exercise Testing*



HDcpet 6000 delivers test results that assure the diagnostic confidence you need, from routine diagnosis to performance monitoring of elite athletes.

CPET is increasingly being used in a wide spectrum of clinical applications for the evaluation of undiagnosed exercise intolerance, exercise related symptoms, and preoperative assessment.



Redefining Accuracy – *Diagnostic Confidence*

The HDcpet 6000 incorporates the global assessment of integrative exercise responses involving the pulmonary and cardiovascular system.

- Breath by breath analysis
- Wasserman 9 Plots
- Automatic Detection of AT
- Spirometry
- Online Blood Gas, RPE Scale and BP entry
- Indirect Calorimetry
- User configurable test screens
- User configurable protocols and preset protocols for treadmill and cycle ergometer
- Automatic control of cycle ergometer/treadmill
- Standalone system with ability to transfer to a hospital data system through HL7
- Data can be exported to excel spreadsheet
- Remote support and software upgrade capability from nSpire Health

Comfortable solutions for the patient & medical staff:

- Extremely small and light patient circuit
- Unique flow meter without any moving parts and electrical connection
- Single use or disinfectable patient circuit
- Automatic calibration and self test

Optional Configurations:

- Bicycle and Treadmill
- 12 Lead ECG
- SPO2
- Polar Heart Rate Monitor
- Blood Pressure

Technical Specifications

Mechanical Data

Weight: 2.6 kg
Dimensions: 11.4 x 10.4 x 4.3 in.
Material: Plastic (ABS) frame
Colour: PC Bone
Classification according to MDD Ila 93/42/EEC

Electrical Data

Safety class 1
Type of application part EN 60601-1:2006
Mains: 90-260 VAC / 50-60 Hz
Warm up time: ~ 20 min.
Current consumption @ operation: ~50 mA
PC-Interface: USB V1.1
IP- Protection type: IP20

Flow

Flow sensor: PinkFlow: PPF-18
Range: ± 18 l/s
Flow resolution: $< \pm 1$ ml/s
Max. linearity error: $< \pm 2\%$ FS
Resistance: 60 Pa / (l/s) (@ 15l/s)
Effective dead space: 36 ml
Inner Diameter: 24 mm
Weight: 34 g
Temperature sensitivity: $< 0.5\%/^{\circ}\text{C}$, without software-compensation
Humidity sensitivity: $< 3\%$ @ 0-99% humidity
Dual Pressure transducer for flow (differential)
Range #1: ± 0.15 kPa; Range #2: ± 4.5 kPa
Accuracy of pressure sensors: 0.05% FS (Full Scale)
Resolution: 16 Bit

Volume

Range: ± 20 L
Resolution < 10 ml
Accuracy: $\pm 2\%$ or ± 10 ml
Backpressure: < 0.5 kPa at 12l/s

Gas Analyser O2

Principle electrochemical cell, consuming
Range: 0% – 25 % O₂
Resolution: 0,01 % O₂
Linearity: ± 0.2 Vol% O₂
Accuracy: ± 0.05 Vol% O₂
Warm up time: ~ 20 min.
Rise time: T10-90 < 130 ms
Humidity Insensitive
Working temperature: $+15$ to $+40^{\circ}\text{C}$
O₂ uptake: 0-10 l/min
Accuracy O₂ uptake: $\pm 5\%$ or ± 100 ml/minute

Gas Analyser CO2

Principle Infrared Spectroscopy
Range: 0 – 13 % CO₂
Resolution: (0-10%) 0.01 % CO₂
Linearity: (0-10%) ± 0.1 % CO₂
Accuracy: (0-10%) ± 0.1 Vol%
Repeatability: < 0.03 % CO₂
Zero-Drift / Stability: (0-10%) < 0.1 % CO₂ / 24 h after warm-up
Warm up time: 15 min.
Rise time: T10-90 < 130 ms
Humidity: 0-90%, non condensing
Working temperature: 5 to 55°C
CO₂ Production: 0-10 l/min
Accuracy CO₂ uptake: $\pm 5\%$ or ± 100 ml/minute

Environmental conditions

Operating conditions

Temperature: $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$
Relative humidity: 30% - 75% @ $+20^{\circ}\text{C}$ (non condensing)
Atmospheric pressure: Between 700 and 1060 hPa

Storage and transport conditions

Temperature: 0°C to $+50^{\circ}\text{C}$
Humidity: 10% bis 85% (non condensing)
Explosive area: The device must not be used in explosive or combustible environment
Dripping / Splash water: The device must not be exposed to dripping / splash-water (IPX0)



Distributed by:

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