



CPX Express[®]

Cardiopulmonary Exercise



Clinicians and physiologists throughout the world rely on the CPX Express for quick, easy and accurate cardiorespiratory assessment. Its compact design makes it space-efficient and easily transportable. With full spirometry, breath-by-breath analysis, and oxygen and carbon dioxide sensors, it provides true metabolic assessment and comprehensive cardiopulmonary function evaluation. It's versatile enough to evaluate patients across the entire health continuum—from symptom-limited adults and children to elite athletes. Its high-resolution, icon-driven touchscreen makes it simple to use.

Supported by the most advanced technology and backed by more than three decades of proven leadership in clinical, fitness and sports medicine, the CPX Express is a superior solution that will benefit your patients for years to come.

TOUCH SCREEN TECHNOLOGY SIMPLIFIES OPERATION

- High-resolution color touchscreen provides simple icon-driven navigation.
- “Virtual” multi-language keyboard and localized software expand relevance of testing and reports.
- Intuitive software guides operator through the entire testing process.

COMPACT DESIGN

- Small footprint for desktop applications or ease of transporting to other locations
- Fully integrated computer and analyzer module with onboard data storage

COMPLETE

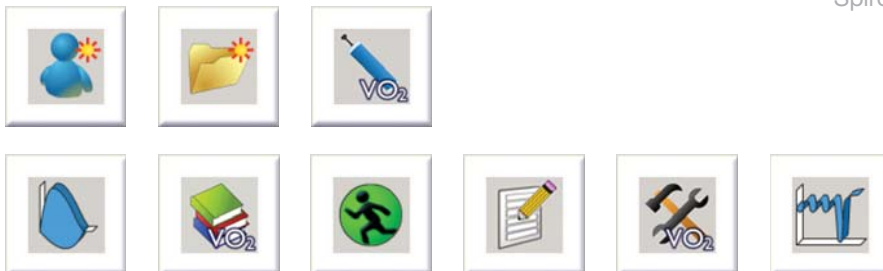
- Full spirometry including pre, post and challenge with forced and slow vital capacity and maximum voluntary ventilation (MVV)
- Breath-by-breath cardiopulmonary exercise, including end tidal oxygen, carbon dioxide and many other exercise variables

QUICK AND EASY TO USE

- 30-second “auto-calibration” ensures accurate and reproducible results in any setting.
- Select test protocol from popular options or create your own—then simply tap the “Start” icon.

PREVENT® FLOW SENSOR

- With no moving parts, MGC Diagnostics’ patented preVent flow sensor can easily be sterilized or discarded between assessments for cost-effective infection control.
- The preVent flow sensor can be used from rest to max exercise with either a mouthpiece or MGC Diagnostics patented ComfortFit™ mask for the lightest and most comfortable testing available.



SPECIFICATIONS

SIZE

- Height: 9.5 in (24 cm)
- Width: 7.5 in (19 cm)
- Depth: 10.5 in (26.7 cm)
- Weight: 9.2 lbs (4.2 kg)

POWER REQUIREMENTS

- 100-240 V/50-60 Hz

O₂ ANALYSIS

- Type: Galvanic
- Sensor range: 0-100%
- Application range: 5-85%
- Response: (10-90%) <130 ms
- Resolution: ±0.1%
- Accuracy: <1%

CO₂ ANALYSIS

- Type: Non-dispersive infrared (NDIR)
- Sensor range: 0-15%
- Application range: 0-10%
- Response: (10-90%) <130 ms
- Resolution: ±0.1%

GAS SAMPLE

- Proprietary gas-drying sample circuit
- Sidestream sampling flow rate: 180 mL/min
- Warm-up time: 30 minutes from cold start

FLOW DEVICE

- Patented preVent flow sensor
- Bidirectional Pitot technology
- Accuracy: ±3% or 50 mL, whichever is greater
- Resolution: 8.64 mL/s
- Range: ±18 L/s

PERIPHERAL INTERFACES

- TTL heart rate from compatible ECG
- USB cycle ergometer or treadmill
- USB Windows compatible printer
- Optional mouse
- Optional external keyboard
- 9700 and 7500 nonin pulse oximeter

OPTIONS

- Mobile cart/trolley
- Cycle ergometer
- Treadmill
- Printer

SOFTWARE

- Cardiopulmonary exercise
- Spirometry, pre, post and challenge



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