

CPX Express[®]

Cardiopulmonary Exercise



MEDGRAPHICS[™]
Cardiorespiratory Diagnostics

CPX Express[®]

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The CPX Express enables clinics, private practices, rehabilitation and sports performance centers to assess exercise capacity with unsurpassed accuracy and reliability. Clinicians and physiologists alike can confidently apply the CPX Express across the entire health continuum to evaluate cardiorespiratory function from symptom-limited adult and pediatric patients to elite athletes.

Benefiting from the most advanced technology from the leader in exercise testing and supported by over 30 years of proven clinical, fitness, and sports medicine, the CPX Express is the ideal system for quick, easy, and accurate cardiorespiratory assessment.

True Metabolic Assessment

- Patented Breath-by-Breath analysis with user-selected report averaging
- Rapid response oxygen (O₂) and carbon dioxide (CO₂) sensors eliminate assumptions required by systems

Touch Screen Technology Simplifies Operation

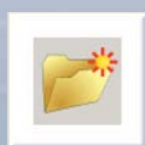
- High-resolution color touch screen provide simple icon-driven navigation
- “Virtual” multi-language keyboard and localized software expands relevance of testing and reports
- Intuitive software guides operator through the entire testing process

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.



Touch screen operation with intuitive icons.

CPX Express Reports

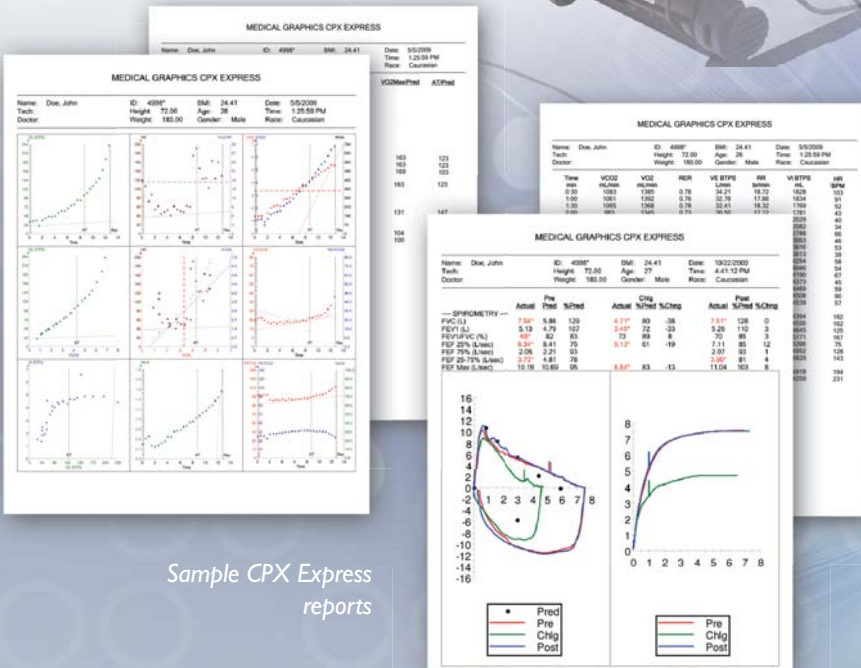
- Choose from ready-to-print pre-configured color reports:
 - Summary Report** complete with key cardiopulmonary variables including Respiratory Exchange Ratio (RER) compared to normal values
 - 9-Panel Report** demonstrates ventilatory, cardiac, and metabolic responses to exercise in a single page, easy-to-understand graphical format
 - Tabular Report** displays full-disclosure of test results reported with three averaging choices and breath-by-breath graphical display
 - Spirometry Report** provides tabular and graphical display of flow, volume, and mechanics of breathing in pre, post, and challenge formats
- Export reports as PDFs, send to Windows® compatible printer or backup to an external USB flash drive

Quick and Easy to Use

- Setup is a “snap” with MEDGRAPHICS exclusive flow and gas sensor link
- 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, MEDGRAPHICS 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 MEDGRAPHICS patented ComfortFit™ mask for the lightest and most comfortable testing available



Specifications



ComfortFit™ Mask
Available in S, M, L
and Youth sizes



Exercise Mouthpiece



Lode Corival



Trackmaster®
TMX425 Treadmill



Calibration Syringe

Ventilation

- Patented preVent® Flow Sensor
- Bidirectional Pitot Technology
- Accuracy: $\pm 3\%$ or 10 ml, whichever is greater
- Resolution: 2.4 ml/sec
- Range: ± 18 L/min

O₂ Analysis

- Type: Galvanic
- Sensor Range: 0-100%
- Application Range: 5-85%
- Response: (10-90%) <130 msec
- Resolution: $\pm 0.1\%$

CO₂ Analysis

- Type: Non-dispersive Infrared (NDIR)
- Sensor Range: 0-15%
- Application Range: 0-10%
- Response: (10-90%) <130 msec
- Resolution: $\pm 0.1\%$

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

Size

- Height: 24 cm (9.5")
- Width: 19 cm (7.5")
- Depth: 26.7 cm (10.5")
- Weight: 4.7 kgs (9.2 lbs)

Software

- Cardiopulmonary Exercise
- Spirometry, Pre, Post and Challenge



Power Requirements

- 100-240V/50-60Hz
- Current: 0.85A max @ 240VAC
1.5A max @ 120VAC
- Watts: 200 watts @ 240VAC
180 watts @ 120VAC

Gas Sample

- Gas drying sample circuit
- Sidestream sampling flow rate: 180 ml/min

Options

- Mobile Cart/Trolley
- Cycle Ergometer
- Treadmill
- Printer