Ultima Series™

Cardiorespiratory Diagnostic Systems





MODEL:

Ultima[™] CardiO₂®

Gas Exchange Analysis System

The Ultima Series™ cardiorespiratory diagnostic systems offer maximum flexibility to configure both pulmonary function testing (PFT) and gas exchange (GX) testing. The Ultima™ CardiO₂® gas exchange analysis system pairs two superior technologies to product one singularly powerful solution. This system combines our leading gas exchange technology with the premier Mortara® ECG. The result is an all-in-one, easy-to-use "gold standard" metabolic stress testing system.

- Fast responding oxygen and carbon dioxide sensors acquire data on a discreet breath-bybreath basis, providing continuous analysis and display of data.
- Simplified testing and data interpretation.
- Optional wireless ECG and thermal printer.



UNIQUE SYSTEM DESIGN

allows for maximum testing comfort for the technician and the patient while utilizing the latest technology for unparalleled performance and reliability.

- Fully adjustable desktop allows for expansive personal workspace whether the technician is sitting or standing
- Room to room portability with gas tanks.
- The Power Managment Scheduler allows for automatic warm-up so the system is always ready for testing.



FLOW SENSORS FOR SIMPLICITY AND ACCURACY

Our proprietary prevent[®] flow senso and DirectConnect[™] metabolic flow sensor saves time between patients and provides maximum infection control while meeting or exceeding ATS/ERS standards and specifications.

- Eliminates warm-up or flow recalibration between patients
- Simple snap-in setup contains no moving parts or electronics for cost-effective testing
- Options to use with a filter (PFT), sterilize or discard.



TEST SPECIFIC QUICK CALIBRATION

Test specific quick calibration sampling via the calibration tower allows for simplified gas calibration based on the test being performed (pulmonary function or metabolic) without compromising accuracy of test results and lab efficiency.



The Ultima Series™ cardiorespiratory diagnostic systems offer maximum flexibility to configure both pulmonary function testing (PFT) and gas exchange systems. Simply select the product that best meets your needs, or talk to your product sales representative for more info.

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SPECIFICATIONS

ULTIMA SYSTEM

Workspace: W x D: 24 x 21 in (70 x 53.3 cm)

• Base: W x D: 25 x 31 (63.5 x 78.7 cm)

• Height: 49 in (124.5 cm)

PREVENT® FLOW SENSOR

Bidirectional Pitot tube flow sensor

• Range: ±18 L/s

Accuracy: ±2% or 50 mL, whichever is greater

• Resistance: <1.5 cm H₂0 @ 14 L/s

O Dead space: 39 mL

DIRECTCONNECT™ METABOLIC FLOW SENSOR

Bidirectional Pitot tube flow sensor

• Patent number: 5,038,773

Accuracy: ±2% or 10 mL, whichever is greater

• Resolution: 2.4 mL/s

• Range: 0-40 L/min

Application range: 100–2000 mL

o Tidal volume range: 100-2000 mL

POWER REQUIREMENTS

º 100-240 V/50-60 Hz

O, ANALYSIS

 Type: Galvanic • Range: 0-100%

o Response: (10-90%) <180 ms

Accuracy: ±1%

CO, ANALYSIS

Type: Non-dispersive infrared (NDIR)

• Range: 0-15%

• Response: (10-90%) <180 ms

• Accuracy: ±0.1% (0-10% CO₂)

GAS SAMPLE

Proprietary gas-drying sample circuit

GAS REQUIREMENTS

ULTIMA CARDIO,

Calibration gas: 5% CO₂, 12% O₂, bal N₂ (5-7 psi)

• Reference gas (recommended): 21% O₂, bal N₂ (5-7 psi)

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MGC Diagnostics and its affiliates are equal opportunity/affirmative action employers committed to cultural diversity in the workforce.



