Ultima Series[™] Cardiorespiratory Diagnostic Systems

MODEL: Ultima CCM[™] Indirect Calorimeter

The Ultima Series[™] cardiorespiratory diagnostic systems offer maximum flexibility to configure both pulmonary function testing (PFT) and gas exchange testing. The Ultima CCM[™] indirect calorimeter allows assessment of critically ill patients while providing cost-effective healthcare delivery.

- Patients with thermal injury and/or trauma are able to have optimal nutrition while those with metabolic and eating disorders are carefully monitored.
- Cost-effective management of mechanically ventilated patients is possible by reducing the amount of vent days and time spent in the ICU.



UNIQUE SYSTEM DESIGN

allows for maximum testing comfort for the technician and the patient

- Fully adjustable desktop allows for expansive personal workspace
- Room to room portability with gas
- BreezeSuite Scheduler allows for



FLOW SENSORS FOR SIMPLICITY AND ACCURACY

- Eliminates warm-up or flow
- Simple snap-in setup contains
- Options to use with a filter



TEST SPECIFIC QUICK CALIBRATION

allows for simplified gas calibration



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.

TESTING CAPABILITIES	PF	PFX	CPX	CARDIO ₂	ССМ
PULMONARY FUNCTION TESTS:					
 Spirometry (FVC, SVC, MVV) 	 		✓	✓	
 Respiratory mechanics (MIP/MEP) 	~	~		Ο	
 Diffusing capacity 	~	~		Ο	
 Nitrogen washout 	~	~		0	
 Single breath N₂ 	V	~		Ο	
 Arterial blood gases (ABG manual entry) 	✓	~	v	¥	✓
CG/HEART RATE CONFIGURATIONS: • Integrated 12-lead ECG		Ο		~	
AS EXCHANGE TESTS:					
 Direct fick cardiac output 		~	~	~	~
 Indirect fick cardiac output (NICO) 		Ο	Ο	Ο	Ο
• Exercise capacity (O, and CO,)		~	~	✓	0
• Nutrition assessment: REE/RMR (O ₂ and CO ₂)		0	0	0	~
			✓ standar	rd O optional	

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: ±3% or 50 mL, whichever is greater
- Resistance: <1.5 cm H₂0 @ 14 L/s
- Dead space: 39 mL

DIRECTCONNECT™ METABOLIC FLOW SENSOR

- Bidirectional Pitot tube flow sensor
- Patent number: 5,038,773
- Accuracy: ±3% or 10 mL, whichever is greater
- Resolution: 2.4 mL/s
- Range: 0–40 L/min
- Application range: 100-2000 mL
- Tidal volume range: 100-2000 mL

POWER REQUIREMENTS

• 100-240 V/50-60 Hz

O₂ ANALYSIS

- Type: Galvanic
- Range: 0-100%
- 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 CCM

- 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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