



#### ADVANCED DIGITAL ELECTRONICS

We offer the latest technology and sensors for unparalleled performance and reliability.

- Automated monitor continuously adjusts analyzers.
- Automatic gas calibration saves testing time.
- Interface to wide array of external peripheral devices.

## PREVENT® FLOW SENSOR FOR SIMPLICITY AND **ACCURACY**

Our proprietary design saves time between patients and provides maximum infection control while meeting or exceeding ATS/ERS standards and specifications.

- Eliminates warm-up or recalibration between patients
- Contains no moving parts or electronics for cost-effective testing
- Options to use with a filter. sterilize or discard



## EASY-TO-USE BREEZESUITE™ SOFTWARE

Our powerful BreezeSuite software provides simple, one-button testing.

- Ease of use allows operator to focus on patient's
- Timely prompts guide the operator through the entire testing process.
- Powerful Microsoft SQL database provides flexibility in accessing, manipulating and reporting data.
- Automated quality-assurance program notifies operator to ensure results comply with ATS/ERS acceptability criteria.

## OPTIONAL BREEZECONNECT™ INTERFACE

- Network capability to connect other cardiorespiratory systems
- Electronic medical record interface using latest HL7 standards with either unidirectional or bidirectional capability
- Flexible access allows physicians to view and interpret patient results from any location on the facility's network

#### GAS REQUIREMENTS

#### PF WITH RTD MULTIGAS TECHNOLOGY

- Calibration gas: 5% CO<sub>2</sub>, 12% O<sub>2</sub>, bal N<sub>3</sub> (6-8 psi)
- DLco mix (135 psi) 0.3% CO, 0.3% CH, 21% O, bal N
- 100% O<sub>2</sub> (135 psi)

#### PF/PFX WITH GAS CHROMATOGRAPHY

- Calibration gas: 5% CO<sub>2</sub>, 12% O<sub>2</sub>, bal N<sub>2</sub> (6-8 psi)
   Reference gas (recommended): 21% O<sub>2</sub>, bal N<sub>2</sub> (6-8 psi)
- DLco mix (135 psi): 0.3% CO, 0.5% Ne, 21% O, bal N
- 100% O<sub>2</sub> (135 psi)
- 100% He (10-28 psi)

## CARDIO /CPX

- Calibration gas: 5% CO<sub>2</sub>, 12% O<sub>3</sub>, bal N<sub>2</sub> (6-8 psi)
- Reference gas (recommended): 21% O<sub>3</sub>, bal N<sub>3</sub> (6-8 psi)

#### **SPECIFICATIONS**

#### ULTIMA MODULE

- H x W x D: 14 x 13 x 14 in (35.5 x 33 x 35.5 cm)
- Weight: 26.5 lbs (12 kg)

## PATIENT INTERFACE ADJUSTMENT (PF ARM)

- Vertical extension: 17 in (43 cm)
- Horizontal extension: 14 in (35.5 cm)
- Radius: 180°

#### PREVENT® FLOW SENSOR

- Bidirectional Pitot tube flow sensor
- Range: ±18 L/s
- Accuracy: ±3% or 50 mL, whichever is greater
- Resistance: <1.5 cm H<sub>2</sub>0 @ 14 L/s
- O Dead space: 39 mL

#### POWER REQUIREMENTS

• 100-240 V/50-60 Hz

#### O. ANALYSIS

- Type: Galvanic
- Range: 0-100%
- Response: (10-90%) <130 ms
- Accuracy: ±0.03%

# CO, ANALYSIS

- Type: Non-dispersive infrared (NDIR)
- Range: 0-15%
- Response: (10-90%) <130 ms
- Accuracy: ±0.1%

### DIFFUSION ANALYSIS: RTD MultiGas Technology

- Analysis time: <1 sec</li>
- Range: CO, 0-0.35%; CH, 0-0.35%
- Accuracy: CO, ±0.003%; CH<sub>4</sub>, ±0.003%
- Linearity: <1% full scale
- Resolution: CO, 0.0005%; CH<sub>4</sub>, 0.0005%

## GAS CHROMATOGRAPHY

- Analysis time: <120 sec</li>
- Range: Ne, 0-0.5%; CO, 0-0.3%
- Accuracy: 0.03 units full scale or 0.03%
- Linearity: 0.5% full scale

### **GAS SAMPLE**

Proprietary gas-drying sample circuit

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All specifications subject to change without notice. Products may vary from those illustrated.

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