

# ULTIMA<sup>TM</sup> PFX

Pulmonary Function & Gas Exchange System



## Configurable Solutions for Exercise, Nutrition and Complete Pulmonary Function Testing.

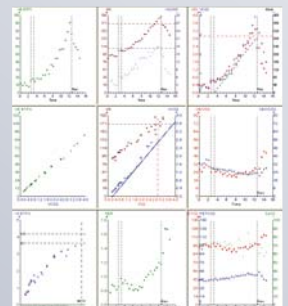
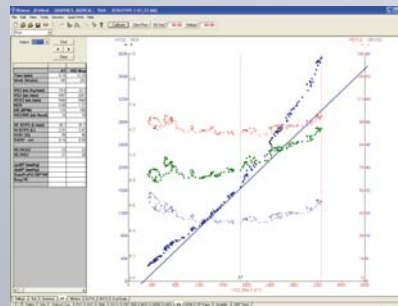
**The Ultima PFX combines pulmonary function and gas exchange testing into one system.**

Measure the performance of your patients' respiratory and cardiovascular systems and receive the most complete global indicator of functional capacity. The Ultima PFX's comprehensive diagnostic tool interfaces to a cycle ergometer, treadmill, ECG or pulse oximeter. With state-of-the-art analyzers, as well as true breath-by-breath analysis, the Ultima PFX sets a new standard in patient testing.

Using the patented preVent<sup>TM</sup> pneumotach, the Ultima PFX offers unsurpassed accuracy, reliability and infection control. Backed by 20 hardware and software patents, MedGraphics leads the way in bringing the latest technology for simplified, accurate testing.

### BREEZESUITE<sup>TM</sup> Software

BREEZESUITE software comes with integrated features, enabling custom configurations and future expandability. The open architecture database provides instant data access and robust network connectivity. Helpful coaching features walk the user through simple steps for system calibration and patient testing. BREEZESUITE allows you to design custom reports and configurations, using Report and Script Designer features. Physician Review Station features full trending of all variables for enhanced patient management. BREEZESUITE is compatible with Windows 2000<sup>TM</sup> and XP Professional<sup>TM</sup>.



# ULTIMA™ PFX

## Specifications



### Arm Adjustments

- Vertical Extension: 43 cm (17")
- Horizontal Extension: 35.5 cm (14")
- Radius: 180°

### Size (Base)

- Height: 36 cm (14")
- Width: 33 cm (13")
- Depth: 36 cm (14")
- Weight: 12 kgs (26.5 lbs)

### PF Module

- Height: 15cm (6")
- Width: 33 cm (13")
- Depth: 30 cm (11.5")
- Weight: 9.3 kgs (20.5 lbs)

### Power Requirements

- 100-240V/50-60Hz

### Flow Device

- Bi-directional Pitot Tube Pneumatich
- Patent Number: #5,038,773 & #5,119,825
- Range: ± 18 L/sec
- Accuracy: ± 3% or 50 ml, whichever is greater (meets or exceeds ATS/ERS clinical performance standards)
- Resolution: 8.64 ml/sec
- Deadspace: 39 ml

### Gas Sample

- Patent Number 5,042,500
- Patented gas drying sample circuit
- Side stream sampling flow rate: 80-100ml./min
- Warm-up Time: 30 minutes from cold start.

### Gas Requirements

- 100% Helium (10 - 28 psi)
- DLco mix (135 psi)
- 100% Oxygen (135 psi)
- Calibration Gas: 5% CO<sub>2</sub>, 12% O<sub>2</sub>, Bal N<sub>2</sub>, 0% CO<sub>2</sub>, 21% O<sub>2</sub>, Bal N<sub>2</sub>

### O<sub>2</sub> Analysis

- Patent Number 4,995,256
- Type: Zirconia
- Range: 0 - 100%
- Response: (10-90%) <80 msec
- Accuracy: ± 0.03%

### CO<sub>2</sub> Analysis

- Type: NDIR
- Range: 0 - 15%
- Response: (10-90%) < 150 msec
- Accuracy: ± 0.1%

### Standard Features

- Complete Spirometry
- FRC by Nitrogen Washout
- Diffusing Capacity
- Gas Exchange Testing
- Respiratory Mechanics & Pressures
- Review Station Software
- Disability Reports
- Trend Reports
- Report Designer
- User-Defined Predicteds

### Options

- Pulmonary Consult Interpretation Software
- Exercise Consult Interpretation Software
- Bronchial Provocation
- Networking & Information Management
- Database Query
- ExFVL (Exercise Flow Volume Loops)
- Cycles/Treadmills



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