

# Platinum Elite Series™

Body Plethysmograph



**MEDGRAPHICS™**  
Cardiorespiratory Diagnostics

# Platinum Elite™

## Body Plethysmograph

The Platinum Elite combines powerful BreezeSuite™ software, advanced digital technology and MEDGRAPHICS® preVent® flow sensor to provide unparalleled ease of operation, reliability, and infection control solutions for complete pulmonary function assessment. The award winning design of the Elite Plethysmograph offers comfort, easy access and flexible testing options for all patients, children through adults.

### Unique Cabin Design

- Maximizes usable space for patient comfort while maintaining low total volume
- Small internal volume improves sensitivity and provides rapid equilibration
- Virtually no weight limit to accommodate larger patients
- Small space requirements (105.4 cm) with wrap-around door ideal for smaller labs and offices
- Quiet, inflatable door seal with no mechanical latches
- Patients can be tested without disconnecting interveinous tubing



Design maximizes useable space



Safe and simple "turn-and-sit" entry compared to other types of plethysmographs



Small exterior size fits in small or crowded areas



Flexibility of testing inside or outside the box

### Easy Access for all Patients

- Patients can enter the chamber and be seated with minimum effort - no step-up required
- Complete spirometry, dilutional lung volumes and diffusing capacity can be performed outside the chamber
- Patient can easily be transferred from a wheelchair eliminating need for special ramps
- Single system accommodates a wide range of patients from small children to large adults

### Easy-to-Use BreezeSuite Software

- Easy to learn, “one button” testing allows operator to focus on patient effort
- Powerful Microsoft SQL database provides flexibility in accessing, manipulating and reporting data
- Report Designer enables user to configure custom and graphical reports
- Real-time help screens guide the operator through the entire testing process
- On screen alerts based on ATS/ERS criteria and standards assures quality results
- Available data management solutions include system connectivity, physician review station and electronic medical record interface



*BreezeSuite software is easy to learn and operate*



*Easily test patients, pediatric through adult*

### Exclusive MEDGRAPHICS® preVent Flow Sensor

- The preVent can be sterilized, used with a filter or discarded to eliminate concerns about cross-contamination
- No moving parts or electronics make the preVent durable, easy to disinfect, and cost-effective
- Simple snap-in design requires no warm-up or recalibration between patients
- No complicated or special tubing required
- Meets or exceeds current ATS/ERS standards and specifications



*preVent Flow Sensor*



*preVent Flow Sensor with preVent Filter*

### Advanced Digital Electronics

- ADC Module continuously monitors and adjusts analyzer to simplify operation performance
- Automatic gas calibration saves testing time
- On-board indicator lights provide quick check of system performance
- Module is conveniently located inside plethysmograph simplifying setup and conserving space
- Slide out tray provides easy access for maintenance or service



*Slide out tray provides easy access*



## Platinum Elite Models

- D (Spirometry, TGV, R<sub>aw</sub>, MIP/MEP)
- DL (Spirometry, TGV, R<sub>aw</sub>, DLco, MIP/MEP)
- DX (Spirometry, TGV, R<sub>aw</sub>, DLco, MIP/MEP, N<sub>2</sub> washout, SBN<sub>2</sub>)

## Standard Features

- Review Station Software
- Trend Reports
- Report Designer
- User-Defined Predicteds
- Disability Reports
- ATS/ERS Error Codes
- HIPAA Security
- Configurable Screens and Graphics
- Microsoft SQL Database
- Pediatric Incentives

## Options

- Pulmonary Consult Interpretation Software
- Bronchial Provocation
- Networking and Information Management
- Database Query
- Quality Control Query
- Static and Dynamic Compliance
- P100s – Occlusion Pressure



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## Physical Description

- Height: 175 cm (69.5")
- Circumference: 287 cm (113")
- Diameter: (Door Closed): 93 cm (37")
- Base Area: 105.4 cm
- System Weight - 158 kg.s (350 lbs)
- Internal Volume - 716 Liters
- Construction - Aluminum/Acrylic
- Arm Adjustments
  - Vertical Extension: 51 cm (20")
  - Horizontal Extension: 35.5 cm (14")

## Power Requirements

- Voltage: 100V - 240V
- Line Frequency: 50/60 Hz
- Line Current (normal state):
  - 0.86A/110V@60Hz (98W)
  - 0.88A/120V@ 50Hz (106W)
  - 0.56A/220V@60Hz (123W)
  - 0.54A/240V@50Hz (130W)

## Gas Requirements

- 100% Helium (10-28 psi) DL and DX models
- DLco mix (135 psi) DL and DX models  
Ne: 0.5%, CO: 0.3%, O<sub>2</sub>: 21%, Balance: N<sub>2</sub>
- 100% Oxygen (135 psi) DX model
- Optional Compressed air (20 psi)

## Flow Device

- Bi-directional Pitot Tube Flow Sensor
- Patent #: 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

## O<sub>2</sub> Analyzer (DX Model)

- Type: Galvanic Cell
- Range: 0 – 100 %
- Response: <130 msec (10-90% full scale)

## Medgraphics DLco Analyzer (DL and DX Models)

- Type: Gas Chromatography
- Minimum Sample Size: 3ml