

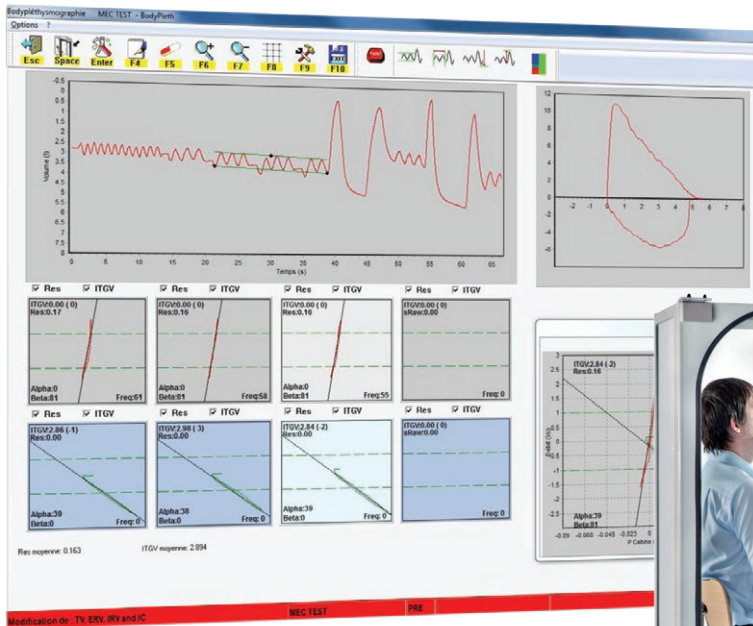


M.E.C.

MEDICAL **ELECTRONIC** CONSTRUCTION

"Since 1984 Manufacturer & Distributor
of Respiratory & Cardio Respiratory Devices"

MEC PFT Systems Bodybox Bodyplethysmography



- Fast and reproducible results thanks to the Variable Orifice Pneumotachometer (VOP).
- Large fully air-tight cabin with 5 windows for patient comfort.
- Full automatic calibration.
- Automatic drift correction for a fast volume and pressure signal stability in order to start the measurement as soon as the cabin door is closed.
- Full automatic BTPS correction for airway resistance curves calculated in real time inside the cabin.
- Upgradeable to MEC PFT Systems Diffusion and other options.
- Quality assessment software in accordance with the latest ATS/ERS guidelines.
- 5 years extended warranty program.

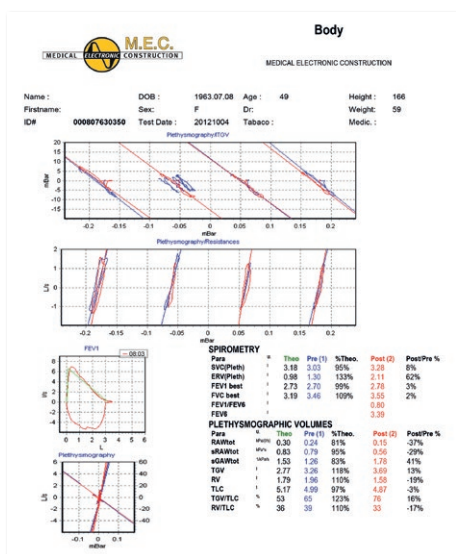
Easy, fast and accurate for improving patient diagnostics

MEC PFT Flow Sensor with Variable Orifice Pneumotachometer and RFID traceability

- High accuracy and reproducibility at both low and high flow range.
- **Constant and low resistance at all flow ranges.**
- No heating element, insensitive to humidity and sputum.
- Long durability, reusable and easy to clean.
- **Radio Frequency Identification Device (RFID)** allowing a full traceability of calibration and testing as suggested by the latest ATS/ERS guidelines.



MEC Patient Data Interface (PDI) Software



All **MEC PFT Systems** are evolving equipment with advanced data communication technologies (USB and/or Bluetooth) for PC and tablet PC (Windows OS).

Thanks to the **Patient Data Interface (PDI)** software, data are automatically imported and exported from your medical file to the chosen interface (XML, ASCII, HL7, BDT/GDT format) for real time analysis.

The PDI software allows you to perform a complete pulmonary function test including:

- All in one concept to measure spirometry just after bodyplethysmography to help the technician while performing the test and to save valuable time.
- Automatic drift correction for a fast volume and pressure signal stability in order to start the measurement as soon as the cabin door is closed.
- Automatic BTPS correction for airway resistance curves calculated in real time inside the cabin.
- Values and graphs can be recalculated at any time.

Specifications

Bodyplethysmography	Lung volumes (ITGV, TLC, FRC), airway resistances (Raw, sRaw), conductance (Gaw/ Sgaw), Pre/Post test
Spirometry	Forced and Slow Vital Capacity (FVC/SVC), Pre/Post test, Bronchochallenge, Maximum Voluntary Ventilation (MVV)
Flowmeter	
Sensor	Variable Orifice Pneumotachometer
Range	0-15 l/s
Accuracy	Volume \pm 3% or 50 ml whichever is greater and flow \pm 0.05 l/s
Resistance	< 0.1 kPa/ (l/s) at 10 l/s
Cabin pressure sensor	Type: Piezoresistive, range: \pm 0.25kPa, accuracy: \pm 0.01 mbar or 0.5% fs
Mouth pressure sensor	Type: Piezoresistive, range: \pm 25kPa, accuracy: \pm 0.05% fs

MEC, YOUR PARTNER FOR THE LONG TERM ...



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