

HypAir PFS

Complete Pulmonary Function Testing



PFT UNIT

SPIROMETRY, LUNG VOLUMES AND DIFFUSION

The highest standard in open-circuit spirometry, lung volumes, diffusion, respiratory mechanics and more... PFT in one station!

The ideal device for accurate spirometry, lung volumes and diffusion measurements, for children and adults.

- Compact system on trolley or table-top configuration.
- Expair II software, with complete operator and patient guidance.
- Start with any available option and upgrade over time
- Low cost of operation, low maintenance.



FEATURING PREVENT® FLOW SENSOR TECHNOLOGY

The small, durable and lightweight preVent® flow sensor is used on all MGC Diagnostics and Medisoft systems.

- Saves time between patients with no warm-up or recalibration needed between changes and provides maximum infection control
- No moving parts or electronics



COMPLETE PULMONARY FUNCTION TESTING WITH ONE DEVICE.

All measurement programs in the Medisoft HypAir PFS are controlled by the powerful Expair software featuring the following testing options.

Complete basic Spirometry:

Forced Vital Capacity, Slow Vital Capacity, Maximum Voluntary Ventilation and Minute Tidal Ventilation including bronchochallenge testing software.

Choice of FRC methods:

UNIQUE: Medisoft, the only manufacturer featuring a choice of 2 lung volumes methods:

- FRC method by N₂ washout, LCI (Lung Clearance Index) and CV (Closing Volume)
- FRC method by Helium dilution

Choice of 6 DLCO Options:

UNIQUE: Medisoft, the only manufacturer featuring a choice of 6 diffusion methods to complete the system:

- Single Breath with Helium trace gas He
- Rapid gas analysis Diffusion test, Single Breath using Helium trace gas (He)
- Rapid gas analysis Diffusion test, Single Breath using Methane trace gas (CH₄)
- Intra Breath diffusion with Cardiac Output (Qc)
- DLCO-NO dual diffusion method (Trace gas He) (EXCLUSIVE) with membrane diffusion (DM) and Capillary blood volume (Vc), now used for POST-COVID patients evaluation.
- Steady State diffusion TICO ss (EXCLUSIVE)



The preVent® flow sensor (PFS) is based on an **exclusive** design which is small, durable and lightweight. The preVent® flow sensor has been validated to meet or exceed the ATS/ERS specifications. It is used worldwide in thousands of labs on MGCD devices and provides accurate testing results with safety and infection control in mind.

- No warm-up or recalibration needed between patients, can be verified with 3L cal syringe at any time to comply to standards.
- Practical Snap-in setup, no moving parts or electronics.

We give you three options for infection control, you make the choice that is right for you!

- 1. Change:** simply change the filter and keep the same preVent® flow sensor.
- 2. Re-Use:** change the flow sensor between patients and replace with disinfected components.
- 3. Dispose:** dispose of the flow sensor after each patient.

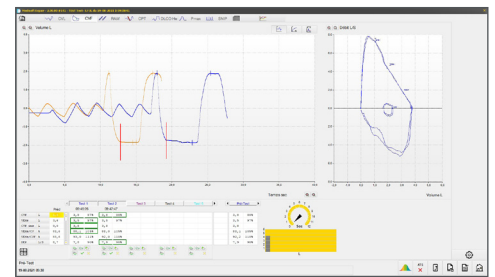
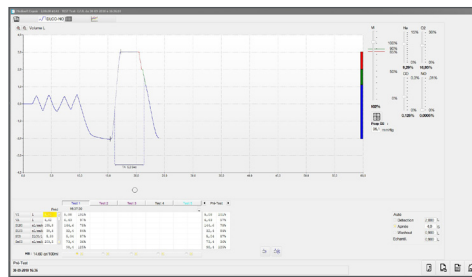
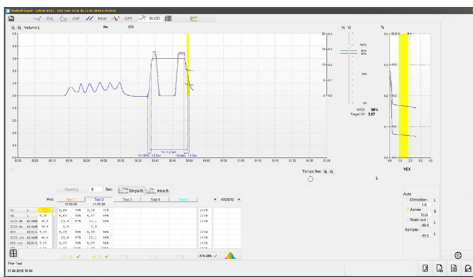
OPTIONS TO COMPLETE YOUR ARRAY OF TESTING CHOICES, FOR ALL YOUR PATIENTS NEEDS.



By adding modules you can perform many more pulmonary diagnostic measurements and integrate them into Expir II Database for combining reports, with more tests such as:

- Automated PROVO4, software controlled dosimeter module for accurate, reproducible bronchial challenge testing
- Exhaled Nitric Oxide (FeNO) as a stationary system (FeNO+) or portable remote compact analyzer (FeNOBreath), for your asthma management and diagnostics
- Cardiopulmonary Exercise Testing module (CPET)
- Respiratory Mechanics modules such as MIP/MEP, SNIP, P.01 (respiratory drive), Negative Expiratory Pressure (NEP)
- Resistance measurement using interrupter technique (Rint)
- Static and dynamic compliance: measured by intra-oesophageal balloon catheters, with transpulmonary pressure option

Can be combined with the following devices: **ECG, FeNO+, FOT Resmon Pro, BodyBox, SpiroAir, Micro 5000, Micro 6000, Ergocard Professional, Ergocard Clinical.**



OPTIONS: the gold standard Medisoft Body Plethysmograph or HypAir for true lung volumes, FRC, RV & TLC to confirm hyperinflation conditions.

Complete the diagnostic picture with the Resmon Pro Full V3 for accurate pulmonary resistance measurements.

The Resmon Pro Full V3 is a revolutionary and validated Forced Oscillation Technique (Oscillometry) stand-alone device. Get the full picture of asthma, COPD and Post-Covid patients. Testing includes fast (10 breath tidal breathing) assessment of sensitive small airways and lung recruitment.



Resmon Pro Full V3 is a product from Restech srl



EXPAIR II, THE MEDISOFT SOFTWARE

The driving force of the Medisoft system is **Expair II**, a powerfully intuitive, user-friendly and complete software package. Available for all Medisoft devices.

- Advanced, powerful database function and electronic storage, full networking, HL7 and MySQL options
- Trend Reporting of any parameter
- New interpretation algorithm based on LLN, ULN, Z-Score and percentile
- Comments and Offline data input such as arterial blood gases
- Online data transfer
- Report designer
- Predicted value editor
- Choice of languages and units of measurement
- Bronchial challenge testing software
- Measurement sequencing configuration
- Full calculation function: display of calculation points with manual correction capability
- Quality control automated software, diagnostic functions and full program control

TECHNICAL SPECIFICATIONS:

Physical Dimensions Module

(H x W x D) cm 13,7 x 40 x 34
inches 5,4 x 15,7 x 13,3

Weight: 12 Kg
26,5 lbs

Physical Dimensions Trolley

(H x W x D) cm 140 x 73 x 55 (standing)
inches 55 x 28,7 x 21,7

Weight: 35 Kg
77 lbs

Power supply: 230 VAC 50 Hz or 115 VAC 60 Hz

Power consumption: 100 VA (module)

Warmup time: 20 min.

Meets all electrical

safety requirements: EN60601-1

Classification: Ila

CE MARK: CE 1434

MDD: 93/42/EC
and harmonized standards

Computer interfacing: Windows 10™ Pro
Serial interface RS232 USB 2.0 / 3.0

Ambient conditions for use

Temperature: 10 - 35°C

Relative humidity: 25 to 85 % (non condensed)

Barometric pressure: No restriction

