

General Specifications

Cabin construction:	Spacious cabin with four transparent wall and roof from hardened glass
Volume double time constant of cabin:	Provides tests at normal breathing frequency and with porting as well
Reference value algorithms:	ECCS, Cotton & Dust, Crapo HSU, Knudson, Austrian, Finnish, Swedish and many more..

Technical Specifications

Flow meter	PinkFlow
Type	PPF-18
Principle	Symmetric and averaging Pitot tube
Flow range	±18 l/s
Accuracy	±2% or 50 ml, whichever is greater
Dead space	36 ml
Resistance	60 Pa/l/s @ 15 l/s
Accuracy of volume	±3 % or ±50 ml
Breath frequency	20 - 40 / minute
	60 – 120 / minute
Range of mouth pressure	±20 kPa
Accuracy of pressure	±2 % or ±50 Pa
Accuracy of airway resistance	±3 % or ±50 Pa/l/s
Volume of reference chamber	25 litre
Power supply	90 - 260 VAC 50/60 Hz
Power consumption	60 VA
Basic model PDT-111/p	
Size of the cabin	Height: 1680 mm
	Wide: 925 mm
	Deep: 790 mm
Volume of the cabin	910 litre
Weight of the cabin	200 kg
Wheelchair model PDT-111/pwc	
Size of the cabin	Height: 1680 mm
	Wide: 925 mm
	Deep: 1240 mm
Volume of the cabin	1160 litre
Weight of the cabin	225 kg

PISTON PDT-111
WHOLE BODY
PLETHYSMOGRAPH



Care, innovative and modular yet truly customised pulmonary function testing solutions.

Salient Features

- Pre-post examinations
- Eight identical measurement can be performed simultaneously
- Trend analysis
- Complies ATS/ERS criteria
- HIS 7 protocol
- No moving part flow sensor
- Insensitive against condensation and vapour
- No heating elements
- All test can be integrated in one system
- Fully balanced height adjustment patient circuit
- Automatic BTPS correction
- Fully automatic calibration & breakage test



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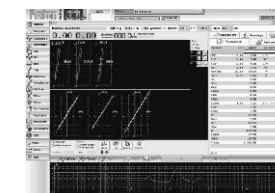
Pulmonary Function Testing Solutions



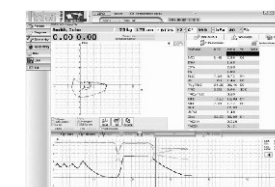
Rotating seat with hydraulic adjustment
Communication system with built-in speaker microphone
Adjustable patient circuit. Electromagnetic door lock



Accessible for patient sitting in a wheelchair



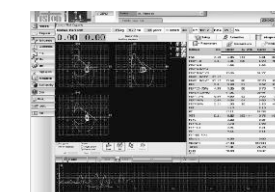
TGV and airway resistance measurement



"Single breath" DLCO measurement with breath hold



"Intra breath" DLCO measurement without breath hold



FVC measurement

- Spirometry FVC, SVC, MVV (pre-post examination)
- Thoracic gas volume (TGV)
- Airway reactance (all components)
- Work of breathing
- Maximal occlusion pressure
- Diffusion capacity test (optional)
 - Breath hold DLCO test
 - Intra breath DLCO test
- Dynamic & static compliance
- Cardio pulmonary exercise test (optional)
- Rhinomanometry (optional)

Measured Parameters

- Plethysmograph TGV: TLC, TGV, RV, RV/TLC, Raw, Rin, Rex, Req, sRaw, sRin, sRex, Gaw, Gin, Gex, sGaw, sGin, sGex, BF, W
- Maximal occlusion pressure: PE max, PI max
- Compliance measurement (optional): Cdyn, Edyn, Cstat, Estat, Cdyn/TLC, Cstat/TLC, Cdyn/FRC, Cstat/FRC, Cdyn/TGV, Cstat/TGV, W
- Diffusion Capacity Test (optional): TLC, FRC, FRC/TLC, Tlco, Dlco, Klco, BHt, WOV, CO ppm, Tlco IB, Dlco IB, Klco IB
- Forced ex and inspiration: FVC, FEV*0.5, FEV*1.0, FEV*0.5/IVC, FEV*0.5/FVC, FEV*1.0/IVC, FEV*1.0/FVC, PEF, FEF*25-75%, FEF*75%, FEF*50%, FEF*25%, FET, MTT, FIVC, FIV*0.5, FIV*1.0, PIF, FIF*25-75%
- Static vital capacity: IVC, IRV, ERV, TV, SVC
- Maximal Voluntary Ventilation: MVV, MVV*f
- Rhinomanometry (optional): Flow [50], Flow [75], Flow [100], Flow [150], Flow [300], RES [50], RES [75], RES [100], RES [150], RES [300]