

PISTON PDT-111/D

DIFFUSING CAPACITY TEST



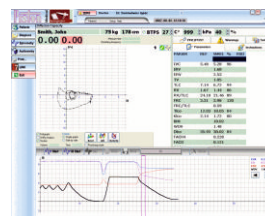
Care, innovative and modular yet truly customised pulmonary function testing solutions.

Salient Features

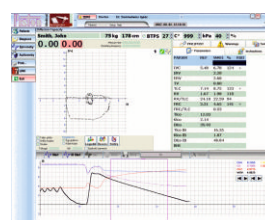
- Pre-post examinations
- Eight Identical measurement Can be performed simultaneously
- Trend Analysis
- Complies ATS/ERS criteria
- HIS 7 protocol
- No moving part Flow sensor
- Insensitive against condensation and vapour
- No heating elements
- All test can be integrated in one system
- Fully balanced height adjustment Patient circuit
- Automatic BTPS correction
- Double time constant of cabin facilitate tests at normal Frequency and with panting as well
- Fully automatic calibration & breakage test

Pulmonary Function Testing Solutions

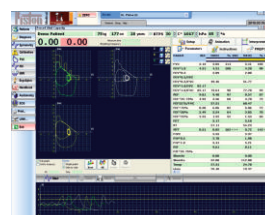
- Spirometry FVC, SVC, MVV (Pre- Post examination)
- Diffusion capacity test
Breath hold DLCO test
Intra breath DLCO test
- FRC Lung volume studies
- Maximal occlusion pressure (optional)
- Thoracic Gas volume (TGV) (optional)
- Airway reactance (all components) (optional)
- Dynamic & static compliance (optional)
- Cardio Pulmonary Exercise test (optional)
- Rhinomanometry (optional)



“Single breath”
DLCO
measurement
with breath hold



“Intra breath”
DLCO
measurement
without breath hold



FVC measurement

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
Accuracy of Transfer Factor	±3 % or ± 0,50 [mmol/min/Pa]
Gas mixture	CO 0,3% CH4 0,3% O2 21% Balance Nitrogen
Gas analyzer	Super fast multi channel NDIR
Resolution	0,001%
Response time T90	130 ms
Capacity of Demand valve	Max. 6 l/s
Reference value algorithms	ECCS, Cotton & Dust, Crapo HSU, Knudson, Austrian, Finnish, Swedish and many more
Size without patient circuit	Height: 130 mm Wide: 260 mm Long: 390 mm
Weight	4 kg
Power supply	90-260 VAC 50/60 Hz
Power consumption	60 VA

Measured Parameters

- **Diffusion Capacity Test:** 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
- **Maximal occlusion pressure (optional):** PE max, PI max
- **Rhinomanometry (optional):** Flow [50], Flow [75], Flow [100], Flow [150], Flow [300], RES [50], RES [75], RES [100], RES [150], RES [300]