



Portable Spirometer with Display Screen,
Built-in Printer, Patient data memory,
PC compatibility.



Diagnosis

- Screening of high risk individuals (e.g. Smokers).
- Measuring the effect of disease on pulmonary function.
- Evaluation of symptoms, signs or abnormal laboratory tests.
- Pre-operative risk assessment.

Monitoring

- Assessment of therapeutic interventions (e.g. Bronchodilator/Steroid Therapy for Asthmatics).

- Collateral effects of diseases affecting lung function (e.g. Obstructive Airways Disease, Interstitial Lung Disease, Congestive Heart Failure).

Disability/Impairment Evaluations

- Patient assessments in rehab programmes.
- Risk assessment for insurance evaluations.
- Assessment of individuals for medico-legal purposes.

Public Health

- Epidemiological surveys
- Environmental hazards assessment.

FEATURES

- FVC, SVC, MVV Tests
- Evaluation of 32 vital parameters
- Pre & Post medication results
- Indian predicted equations.
- Can store data for 100 patients
- Built in printer to print graphs and measurement values.
- Liquid Crystal Display for graphs and measurement values
- Mains as well as battery operated.
- Facility to down load data to PC
- Interpretation



EQUIPMENT SPECIFICATIONS

Flow range	: ± 14 Litres/sec
Max Volume	: 8 Litres
Overall Accuracy	: Within $\pm 1\%$ (using a standard 3 Litre calibration syringe)
Transducer	: Bi-directional Turbine Cartridge
Turbine Sensor	: Infrared Interruption
Flow Detection	: Volume Differential
Power Supply	: Battery operated along with AC operation.

PARAMETERS MEASURED

Forced Vital Capacity : FVC, FEV₁, FEV₁/FVC, FEF_{25-75%}, PEFR, FIVC, FEV₅, FEV₃, PIFR, FEF_{75-85%}, FEF_{2-1.2}, FEF_{25%}, FEF_{50%}, FEF_{75%}, FEV₅/FVC%, FEV₃/FVC%, FET, Expl Time

Slow Vital Capacity : SVC, ERV, IRV, VE, R_f, T_i, T_e, VT, VT/T_i, T_i/T_{tot}, IC

Maximum Voluntary Ventilation : MVV, MR_f, MVT

Since R&D is a continuous process features & specifications subject to change without notice.



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rev. 02/2007