Redefining Accuracy In High Definition

HDpft[™] 2000 *High Definition Compact Pulmonary Function Laboratory*

HDpft[™] 2000 combines the latest testing capabilities and exclusive High Definition accuracy in an innovative architecture designed to increase productivity and improve the clinical yield of pulmonary function testing.

nSight[™] 5 software for HDpft simplifies testing processes, shortens procedure time, automates quality assurance, and delivers flexible real-time trending and instant formattable reporting.

Redefining Accuracy – Diagnostic Confidence

HDpft 2000's exclusive Single-Breath linked manoeuvre delivers Diffusing Capacity (2 methods offered), Total Lung Capacity, Functional Residual Capacity, and Lung Volume results equivalent to Multiple-Breath Lung Volume Determination in a 15 second single testing sequence. High Definition accuracy in every step of the process ensures the confidence you need, even when testing your most challenging patients.

Redefining Accuracy – *Improving Outcomes*

iFlow[™] advanced flow sensor technology delivers the industry's best resolution, ensuring flow & volume measuring accuracy and reproducibility at 300% more than the industry standard. iFlow's superior accuracy permits you to identify smaller changes in lung function sooner, dramatically enhancing diagnostic precision, treatment planning decisions, and monitoring value even with the most subtle longitudinal changes in lung function.

We continue redefining accuracy so you can improve patient outcomes, more efficiently.

Redefining Accuracy – Clinical Outcomes

"If the variability of the results can be diminished and the measurement accuracy can be improved, the range of the normal values for populations can be narrowed and abnormalities more easily detected." 2







Redefining Accuracy — Clinically Proven Technology

- MicroGas-HD[™] Analyser. Clinically proven at two times the industry standard in accuracy and precision without the need for pretest calibration. Real-time display and exclusive High Definition retrospective data analysis reduces the need for repeat exams.
- GemTach-HD[™] Precision Pneumotach with iFlow Technology. Delivers higher sampling rates and drift free performance. Intuitive multi-flow verification guarantees your lab's compliance to the latest ATS/ERS quality control standards.
- AutoFlow™ Ultra-low Resistance Breathing Circuit. Auto-sensing provides near resistance-free gas delivery, enhancing patient comfort and test compliance.
- **nSight™ Software.** Streamlines testing, delivering the industry's fastest start-to-finish exam times. Real-time, dynamic incentive graphics, QA scoring, and linked manoeuvres increase acceptable test efforts.
- **HDnetTM**. Delivers networking and connectivity to hospital information systems, seamlessly consolidating other vendors' data into the gold standard nSight SQL database, optimising your workflow.

Redefining Accuracy – Beyond Expectations

HDpft 2000 simplifies and automates compliance with the latest ATS/ ERS standardisation criteria for Spirometry, Lung Volumes, and Diffusion testing while offering the industry's most accurate test results.

Lifetime GemTach-HD flow sensor meets ATS/ERS standards while eliminating costly downtime associated with re-calibrations. Verification testing automatically validates syringe volumes or leaks in real-time, saving your lab valuable time. Without life-limited sensors or costly proprietary consumables, HDpft 2000 guarantees you the lowest cost of operation.

Expert customer support teams provide extensive start-up training, application assistance, system uptime coverage, and on-site or remote service protecting your investment throughout the products lifecycle.

Ordering Information

Part No. IHD2000

Description HDpft 2000 Pulmonary Function Testing System





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Technical Specifications

Tests Performed:

Spirometry (FVC, MVV, SVC) (31 parameters), Lung Volumes (SB) (7 parameters), Diffusing Capacity (Single-Breath & 3-Equation), Bronchoprovocation (Multiple Protocols)

Screen

Cart Dimensions: 41 in H x 22 in W x 25 in D 104 cm H x 56 cm W x 64 cm D

GemTach-HD:

Type: Resistance:

Range: Resolution:

<0.05 kPa/L/sec <0.15 kPa/L/sec with DCII filter Accuracy (Including Linearity): $\pm 3\%$, $4\pm 1\%$ with iFlow +15 | /sec 0.45 ml/sec

MicroGas-HD:

Type:

Range, CO, CH4: Range, CO2: Response: Sample Rate: Accuracy: Linearity: Noise:

CO, CH4, CO2 -Type Infrared (NDIR) 0 - 3000 ppm 0% - 15% <100 msec 100 Hz 1% <1% <1% Full Scale

AutoFlow Gas Delivery System:

Type: Gas Source: Spec:

Electromagnetic, Flow Controlled DLCO Mix or 100% Oxygen <0.15 kPa @ 6 L/sec

Computer Interface:

A/D Converter: Resolution:

Safety & Conformance: ISO 13485:2003 UL2601-1 2nd edition: 1997, CAN/CSA C22.2 No. 601.1S1-M90, Class II Type BF

0.3 mvolts

16 bit

References:

- Correction of single breath Helium Lung Volumes in 1. Patients with airflow obstruction. Punjabi, Shade, Wise, Chest/114/3/September, 1998
- Series "ATS/ERS Task Force Standardisation of 2. Spirometry'
- Series "ATS/ERS Task Force Standardisation of the single-breath determination of carbon monoxide uptake in the lung'
- Series "ATS/ERS Standardisation of the measurement of 4. lung volumes"

Contact Information

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