

BPd-HD

Digital Body Plethysmography

BPd-HD 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. With the most technologically advanced digital plethysmograph cabin, BPd-HD introduces crisp, clear, digital signals to plethysmography, eliminating the need for temperature equilibration, increasing patient comfort and improving workflow.

nSight™ software simplifies testing processes, shortens procedure time, and automates quality assurance. Real-time trending allows instant review of previous studies. Hard-copy reporting can be customised to your laboratory needs and printed, electronically faxed, emailed, or transmitted to your electronic medical records system.

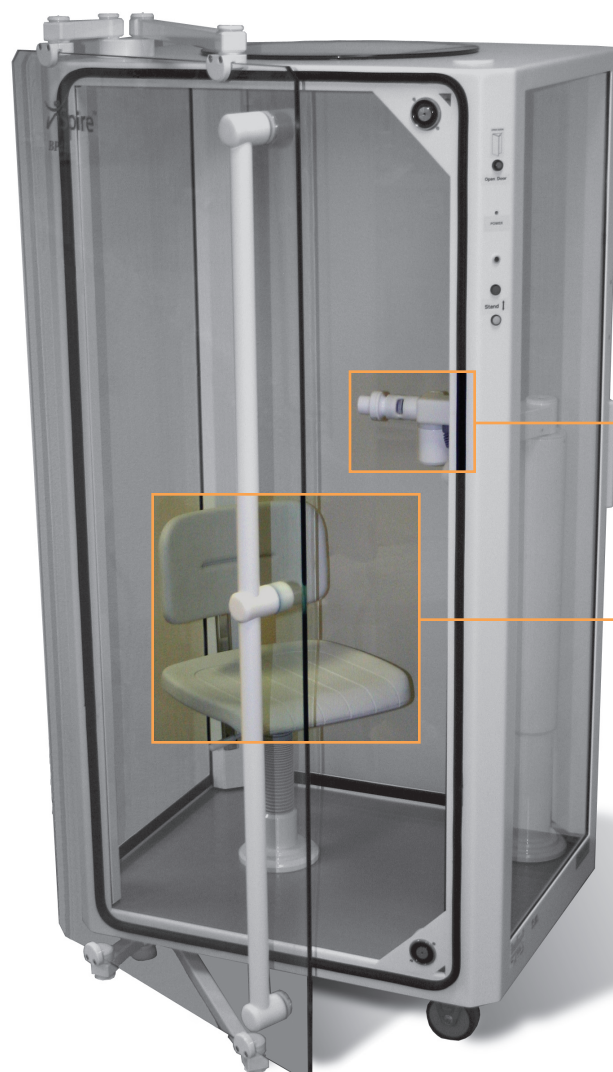
Redefining Accuracy — Diagnostic Confidence

BPd-HD performs Spirometry, Lung Volumes by vtg, and Single Breath Diffusion with a total patient test time of 10 minutes. The elegant 5-sided glass exposure relaxes the patient and can be easily cleaned without the risk of clouding found with Plexiglas®. Designed with optimal service in mind, the electronics are contained in an easily accessible slide out drawer.

Redefining Accuracy — Improving Outcomes

As a part of our family of lung function diagnostic products, BPd-HD embodies years of dedication to advancing the quality of lung health.

We continue redefining accuracy so that you can achieve improved patient outcomes more efficiently.



Redefining Accuracy — Clinically Proven Technology

- **Crisp, Clear Waveforms.** The first digital plethysmograph to provide clear waveforms, decreasing test times.
- **Adjustable Support Arm.** Articulating side-to-side & up/down breathing circuit support arm can be externally controlled without opening the cabin door.
- **Elegant 5-Sided Glass Enclosure** can be cleaned without the risk of clouding found in Plexiglas.
- **Unique Door Assembly** decreases the footprint and increases patient accessibility.
- **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.
- **HDnet™.** 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

BPd-HD exceeds ATS/ERS standards and offers innovative pulmonary function testing capabilities without life-limited sensors or costly proprietary consumables, guaranteeing 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 to protect your investment.



© Copyright nSpire Health 2009. Due to continual innovations, nSpire Health reserves the right to change specifications without notice. BPd-HD, HDpft, nSight, and HDnet are trademarks of nSpire Health. Plexiglas is a registered trademark of Evonik Industries AG.

Technical Specifications

Tests Performed:

Spirometry (FVC, MVV, SVC) (36 parameters), Lung Volumes (Plethysmography) (21 parameters), Airways Resistance (RAW, Specific Conductance) (43 parameters), Broncho-provocation (Multiple Protocols), Maximum Pressures.

MicroTach:

Type: Screen
Resistance: <0.5 cmH₂O/L/sec
<1.5 cmH₂O/L/sec with DCII filter
Accuracy (Including Linearity): ±3%
Range: ±15 L/sec
Resolution: 0.45 ml/sec

Plethysmograph Cabin:

Type: Compensated, Volume Constant
Internal Volume: 980 Liters
Door Material: Safety Glass
Calibration Pump: 100 ml @ 1 Hz

Transducers:	Mouth Pressure	Box Pressure
Linearity:	0.5%	0.05%
Accuracy:	1%	1%
Range:	±300 cmH ₂ O	±2 cmH ₂ O
Resolution:	0.01 cmH ₂ O	0.001 cmH ₂ O

Computer Interface:
USB

Minimum Computer Specifications:

Pentium® III, at least 350 MHz, 128 MB RAM, 4 USB Ports, 2 GB Hard Drive, CD-ROM Drive, Microsoft Windows® Vista, XP, 15" monitor

Safety & Conformance:

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

References:

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

Contact Information

nSpire Health Ltd.

Tel: +44 (0) 1992 526300
Fax: +44 (0) 1992 526320
E-mail: info@nspirehealth.com
www.nspirehealth.com