

Hawk[®]

Compact Pulmonary Function Laboratory



Redefining Accuracy Beyond the Standard

Hawk[®] delivers more than reliable test results in a cost-effective and compact package. Hawk redefines accuracy in every step of the testing process, fast. It brings you complete pulmonary testing in under 10 minutes with the confidence you need, even when testing your most challenging patients.

Redefining Accuracy - Diagnostic Confidence

Hawk's proprietary 4th generation sensor technology is proven at nearly twice the industry standards in the world's most demanding and comprehensive inhaled drug trials to date. RaptorPlus[™] software simplifies testing processes, shortens procedure time, and automates quality assurance.

Redefining Accuracy - Improving Outcomes

Hawk embodies over 85 years of Collins' dedication to advancing respiratory diagnostics in the physician's office and hospital laboratory. It's the state-of-the-art technology you need to measure remarkable or subtle changes in lung function for diagnosing and trending the outcome of your patients.

We continue to redefine accuracy so you can achieve improved patient outcomes, more efficiently and more profitably.

Redefining Accuracy - Proven Technology

- **4th Generation Fast-Response MicroGas[™] Analyzer.** Increases accuracy, precision, and offers real-time display and retrospective analysis reducing the need for repeat exams.
- **GemTach[™]** Higher sampling rates and the industry's shortest calibration time.
- **AutoFlow[™]** ultra-low resistance gas delivery system. Improves patient comfort and test compliance.
- **RaptorPlus[™]** software streamlines the testing process. Linked measurements optimize breathing at constant lung volume reference.
- **Merlin[™]** networking and connectivity is fully compatible with the majority of electronic medical records (EMR) and hospital information systems.

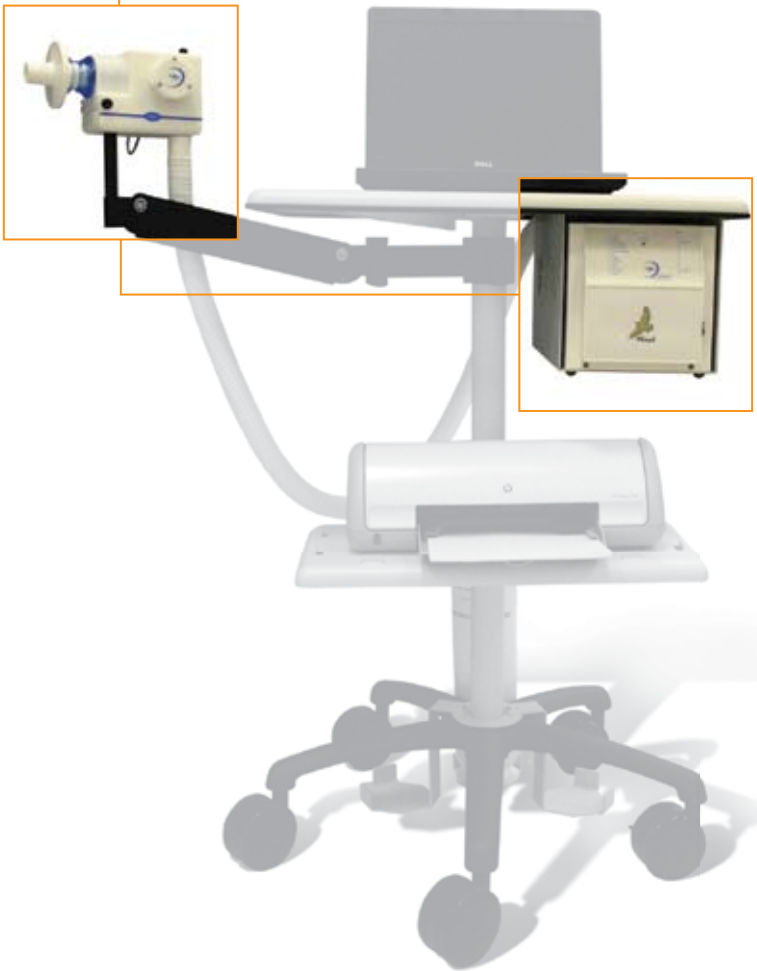


Redefining Accuracy. Beyond Expectations.

Hawk delivers accurate pulmonary function testing at the lowest cost of operation. But we don't stop there.

Hawk's unique Single-Breath 15-second linked maneuver, allows you to measure diffusing capacity, total lung capacity, functional residual capacity, and lung volumes, all in a single testing sequence. Hawk saves you and your patient valuable time.

Our expert customer support delivers extensive start-up training, application assistance, system uptime coverage, and on-site or remote service. We are the team you can rely on to protect your investment resources.



Technical Specifications

Tests Performed:

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

GemTach Pneumotach:

Type:	Screen
Resistance:	<0.5 $cmH_2O/L/sec$ <1.5 $cmH_2O/L/sec$ with Collins DCII filter
Accuracy (Including Linearity):	$\pm 3\%$
Range:	$\pm 15 L/sec$
Resolution:	0.45 ml/sec

4th Generation Fast Response MicroGas Analyzer:

Type:	CO, CH_4, CO_2 - Type Infrared (NDIR)
Range, CO, CH_4 :	0 - 3000 ppm
Range, CO_2 :	0% - 15%
Response:	<100 msec
Sample Rate:	100 Hz
Accuracy:	1%
Linearity:	<1%
Noise:	<1% Full Scale

Computer Interface:

A/D Converter:	16 bit
Resolution:	0.3 mvolts

Minimum Computer Specifications:

Pentium® II, at least 350 MHz, 128 MB RAM, 4 USB Ports, 2 GB Hard Drive, CD-ROM Drive, Microsoft Windows® 2000, 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,

Optional Hardware:

Digital Body Plethysmograph

References:

- Series "ATS/ERS Task Force: Standardisation of Lung Function Testing". Eur Respir J 2005; 26: 153-161
- General considerations for lung function testing. Eur Respir J 2005; 26: 319-338
- Standardisation of spirometry. Eur Respir J 2005; 26: 511-522
- Standardisation of the measurement of lung volumes. Eur Respir J 2005; 26: 720-735

Contact Information

Phone: 800.574.7374, 303.666.5555

Email: sales@nspirehealth.com

Web: www.nspirehealth.com



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