

Eagle™

Comprehensive Pulmonary Function Laboratory



Redefining Accuracy Beyond the Standard

Eagle® delivers more than reliable test results. By redefining accuracy in every step of the testing process, Eagle ensures the confidence you need, even when testing your most challenging patients.

Redefining Accuracy - Diagnostic Confidence

Eagle'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

Eagle and the Raptor Series embody over 85 years of Collins' dedication to advancing respiratory diagnostics. 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

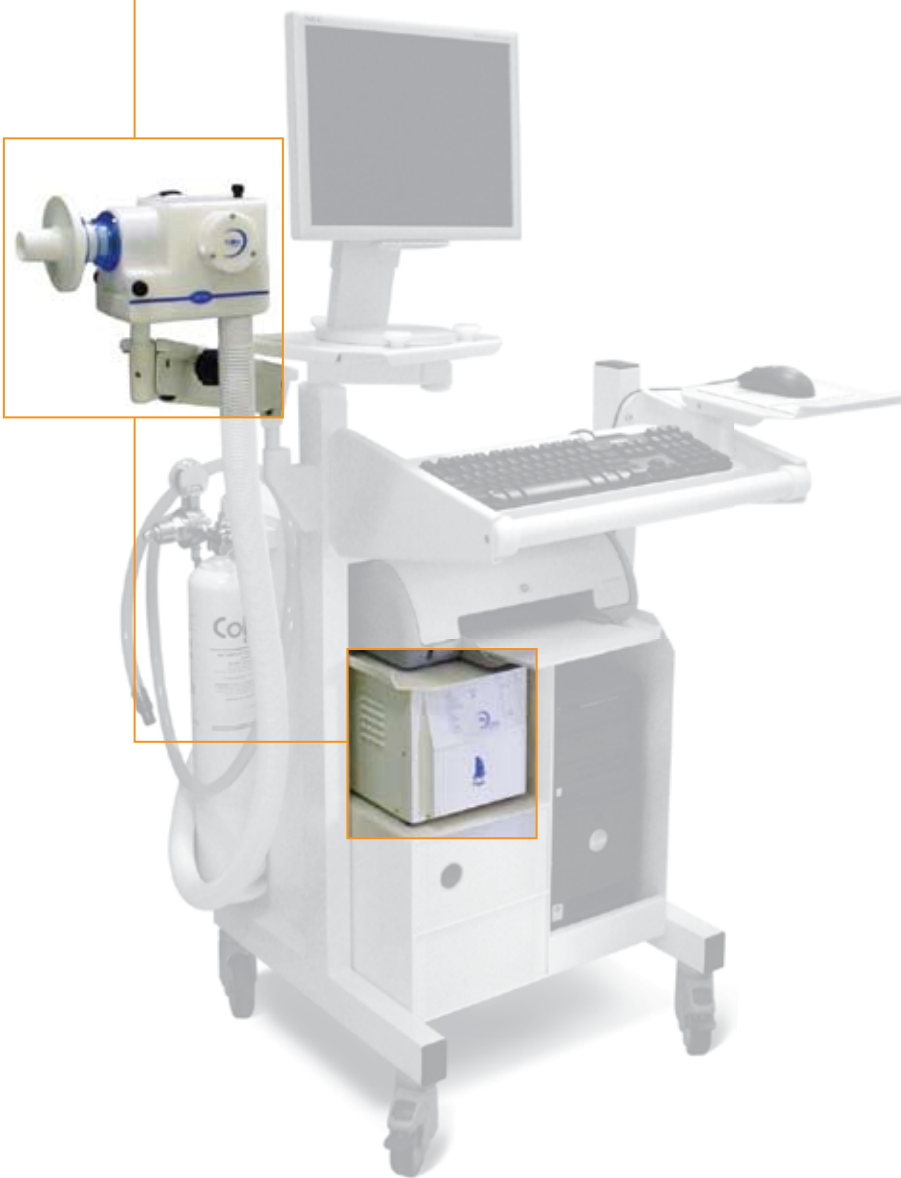
- **4th Generation Fast-Response MicroGas™ Analyzer.** Increases accuracy, precision, and offers real-time display and retrospective analysis reducing the need for repeat exams.
- **GemTach™** Higher sampling rates and the industry's shortest calibration time.
- **AutoFlow™** ultra-low resistance gas delivery system. Improves patient comfort and test compliance.
- **RaptorPlus™** software streamlines the testing process. Linked measurements optimize breathing at constant lung volume reference.
- **Merlin™** delivers networking and connectivity to hospital information systems, consolidates other vendors' data into RaptorPlus SQL database, and manages your workflow.



Redefining Accuracy. Beyond Expectations.

Eagle is designed to exceed industry standards, bringing you the most accurate pulmonary function testing at the lowest cost of operation. But we don't stop there.

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) (36 parameters), Lung Volumes (Single-Breath & Multiple-Breath) (26 parameters), Diffusing Capacity (3 Equation, SBO₂) (43 parameters), Bronchoprovocation (Multiple Protocols) Maximum Pressures

GemTach Pneumotach:

Type:	Screen
Resistance:	<0.5 cmH ₂ O/L/sec <1.5 cmH ₂ O/L/sec with Collins DCL filter
Accuracy (Including Linearity):	±3%
Range:	±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

Electrochemical O₂ Cell:

Range:	0% - 100% O ₂
Response:	<100 msec
Accuracy:	<1%
Linearity:	<1%
Noise:	<1%

AutoFlow Gas Delivery System:

Type:	Electromagnetic
Gas Source:	D ₁ CO Mix or 100% Oxygen
Spec:	<1.5 cmH ₂ O @ 6 L/sec

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".
- General considerations for lung function testing. Eur Respir J 2005; 26: 153-161
- Standardisation of spirometry. Eur Respir J 2005; 26: 319-338
- Standardisation of the measurement of lung volumes. Eur Respir J 2005; 26: 511-522
- Standardisation of the single-breath determination of carbon monoxide uptake in the lung Eur Respir J 2005; 26: 720-735

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