



Collins Medical - New Products 2025



At Collins, we've built our reputation on a legacy that stretches back to the earliest days of modern respiratory care.

Tracing our roots to the pioneering work of engineers and clinicians who advanced respiratory science in the 1930s - when the Iron Lung revolutionised patient support. We stand today as a global leader in pulmonary technology.

We are dedicated to elevating the standard of patient care worldwide. Our mission is to empower healthcare professionals – respiratory physiologists, scientists, nurses, and physicians. With the high-quality tools they need to treat, and advance patient respiratory health. With decades of industry experience behind us, we focus on accuracy, efficiency, and ease-of-use in every product we create.

Specialising in top-tier Pulmonary Function Testing (PFT) systems, Collins integrates cutting-edge software solutions with precision engineered medical devices. Our PFT equipment is designed to deliver fast, reliable results and minimize total lifecycle costs, all while maintaining superior accuracy and patient comfort.

We thrive on innovation and new technology to meet the ever growing needs of the healthcare industry.



The **Eagle 3 and Eagle 3 Plus** Represents a significant leap forward in medical technology, offering unparalleled precision and numerous advanced features designed to enhance patient care and streamline hospital operations.

Our state of the art systems offer:

Self Linearising Analyser
Remote Servicing
+0.1% Accuracy for Clinical Trials

These remarkable features make the Eagle 3 and Eagle 3 Plus systems suitable for use in both hospitals and research centres, catering to a wide range of medical applications. Moreover, our commitment to affordability means that you can acquire the best product with the best analyser at the best price, without compromising on quality.

Our ground-breaking medical systems, sets a new standards for accuracy, reliability, and innovation in the healthcare industry.

High Quality Data Without the Hassle

- Remote AI maintenance
- Remote traceable measurement certification with on-board calibration references
- Self-linearising rapid response gas analyser
- Built-in Iso-thermal calibration reference for plethysmograph
- Passive low resistance breathing valve
- True gas measurement
- Custom accuracy options: screener, clinical, or research
- Ultra-precise, drift-free pneumotach even at low flows
- Pleth with extremely stable signals and no warm-up time

See your patient's actual lung function without machine bias at a low cost with minimal maintenance.



Testing Capabilities	Eagle 3	Eagle 3 Plus
Forced Vital Capacity	✓	✓
Slow Vital Capacity	✓	✓
Maximal Voluntary Ventilation	✓	✓
Chemical & Exercise Challenge Testing	✓	✓
Pre- & Post-Bronchodilator Evaluation	✓	✓
Diffusion Capacity - Single Breath & 3-EQ	✓	✓
Single Breath Methane Washout Lung Volumes	✓	✓
Maximum Inspiratory & Expiratory Pressures (Optional)	✓	✓
Nitrogen Washout Lung Volumes - Multiple & Single Breath	✓	✓
Closing Volumes	✓	✓
Airways Resistance & Conductance		✓
Plethysmography Lung Volumes		✓

Eagle 3



Compact and Reliable Design

Cart Size: 71cm W x max 165cm H x 58cm D, with adjustable desktop height range: 75-110cm

Arm with 5 axis adjustability allows mouthpiece to be easily brought to the patient's mouth for optimal test positioning and comfort.

Cabin Size (Eagle 3 Plus only): 86cm W x 183cm H x 79cm D

Patient capacity: 220kg

Power and Environmental Specifications

Power Requirements: 230V with 800VA Isolation Transformer

US: 115V, 6.0A | EU: 230V, 3.15A

Operating Conditions: Temperature: 10°C - 35°C (50°F - 95°F),

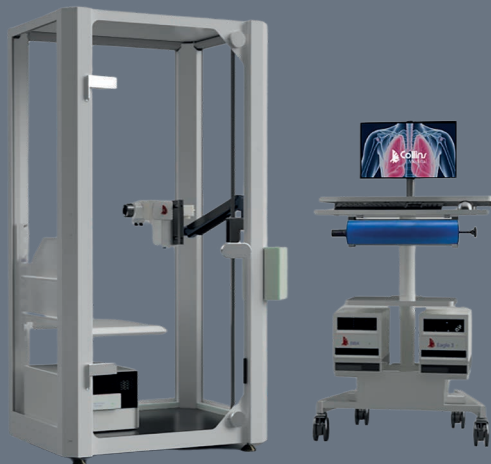
Relative Humidity: 20% - 80%

Advanced Gas Requirements for Precision

DLCO: 0.3% CO, 0.3% CH₄, 21% O₂, Balanced N₂, 43 psi

Nitrogen Washout: 100% Oxygen, 43 psi

Eagle 3 Plus



State-of-the-Art Flow Sensor

Type: Screen Pneumotachometer

Resistance: <0.5 cmH₂O/L/sec at 14 L/sec

Analyser

Type: Electrochemical O₂, Infrared (NDIR) CO, CH₄, CO₂

Response Time: <100 msec

Gas Delivery

Resistance: <0.25 cmH₂O/L/Sec (1.5 cmH₂O) at 6 L/sec

Equipped with Modern Computer Systems

Operating System: Windows 11 Professional, 64-bit

Network: Wired and 802.11ac Wireless

The New Eagle 3: Stands For Precision, Performance, and Reliability in Pulmonary Function Testing.



HL7

**Collins Medical
Are pleased to Announce
The latest HL7 Upgrade
For your Eagle 3
PFT System**

Our enhanced HL7 system is designed with ease of use, speed, and efficiency at its core.

Seamlessly connecting with your hospital's EMR system, it offers fast, reliable connectivity and an intuitive, user-friendly interface.

This upgrade optimises performance and streamlines work-flow for your technicians ensuring they can work more efficiently than ever before. Discover the power of simplicity and speed with Collins Medical's HL7 system today !

Reach out to our sales team for more Information.

info@collinsmedical.com



Collins Medical Introduces Self Diagnostics

Introducing the future: Our new and improved advanced technology with unparalleled precision and convenience.

Key Features:

Simultaneous monitoring, real-time synchronisation of the analyser and flow sensor ensures optimal performance at all times.

Smart Alerts:

Stay ahead of maintenance! Our system notifies users and remote service centres when:

1. The flow sensor needs cleaning.
2. The analyser requires calibration.
3. Foresees an issue with the system.

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Self Diagnostics



Collins Medical's Self Linearising Analyser

Thanks to our first one-of-a-kind ground-breaking technology, we ensure the analyser maintains peak performance by continuously measuring and adjusting its linearity.

This dynamic process guarantees unrivaled accuracy and consistency, delivering precise and reliable results every time.

By actively monitoring and fine-tuning performance in real time, our system sets a new standard for excellence, ensuring consistent results that you can trust, no matter the application or environment.

Transform the testing in your hospital Today with the latest Eagle 3 and Eagle 3 Plus PFT Systems.

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Self Linearising Analyser



Remote Servicing

Collins Medical's Remote Servicing

Experience the future of maintenance and servicing with our revolutionary remote servicing technology.

Now, servicing can be performed from anywhere in the world, eliminating the need for expensive on-site engineers, reducing downtime.

Our advanced system allows for precise adjustments and calibrations of internal components, all managed seamlessly from a remote service centre.

With real-time support and global accessibility, you can maintain peak performance, minimise disruptions, and significantly cut costs.

Embrace the convenience, efficiency, and reliability of remote servicing today!

Reach out to our sales team for more information.

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+ - 0.1% Accuracy

Collins Medical's + - 0.1 % Accuracy Option

Our new and improved advanced technology with unmatched precision and convenience.

By leveraging real-time synchronisation to the analyser and flow sensor, our system ensures optimal performance at all times.

Additionally, our ground breaking linearity adjustment technology dynamically measures and fine-tunes performance to deliver unrivaled accuracy and consistency.

This ensures precise and reliable results in any environment, setting a new benchmark for excellence with an incredible accuracy of $\pm 0.1\%$.

Trust in our technology for consistent, dependable performance.

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