

Esco IntelliGlove Tester (EIGT)

Reliable solution for verifying glove
integrity in pharmaceutical and
biocontainment environments



Introduction

The Esco IntelliGlove Tester (EIGT) is designed for leak detection on gloves, sleeves, and gauntlets used in isolators, RABS, and glove boxes. Operating on the pressure loss principle defined in ISO 14644-7, the system supports routine verification of glove integrity in pharmaceutical and biocontainment environments.

Glove integrity testing is a recognized element of contamination control strategies in aseptic processing. The EIGT is intended to support consistent testing practices where documentation, traceability, and process reliability are required.

Developed as part of Esco's containment and cleanroom equipment portfolio, the system supports a wide range of applications across controlled environments.

Applicable markets include, but are not limited to: Test Recipe Management

- Pharmaceutical
 - Biotechnology
 - Cell & Gene Therapy
 - Biocontainment Laboratories
 - Research and Development Facilities
- Configurable and reusable test recipes
 - Supports different glove types and testing requirements
 - Enables standardized testing procedures across applications
 - Supports consistent and repeatable workflows

Basic Operating Principle

- Pressure loss testing method based on ISO 14644-7
- Controlled inflation and stabilization of the glove or gauntlet
- Leak detection based on pressure change over time
- Applicable for gloves, sleeves, and gauntlets used in isolators, RABS, and glove boxes

System Overview

The Esco IntelliGlove Tester operates via a Windows-based tablet as a controller and features an integrated touch display on the tester unit itself for a quick parameter and status check. The controller allows users to manage inflation, deflation, and test execution directly at the point of use.

The system is designed to support flexible deployment without fixed cabling, enabling testing around isolators and RABS while maintaining consistent test methodology.

An emergency stop function is included as part of the system design to allow controlled interruption of operation when required

Data Management & Compliance Support

- Software features supporting 21 CFR Part 11, including:
 - Electronic records
 - Electronic signatures
 - Audit trails
- Account-based user management with role-defined access levels
- Recording of:
 - Audit trails
 - Alarm logs
 - Test results and reports
- Test reports generated in secured, non-editable PDF format
- All test data stored within the control software for traceability and review

Design & Integration

- Wireless, portable tester configuration
- Integrated touch display on tester unit
- Customizable docking adaptor to suit existing glove port sizes
- Durable construction suitable for controlled environments
- Rechargeable and removable lithium battery

Design & Integration

The EIGT is intended to support:

- Routine glove integrity testing
- Documentation and traceability requirements
- Process reliability in controlled environments

The system is designed to align with established glove testing practices and applicable regulatory guidance.



Genera Specifications

EIGT Wireless Glove Leak Tester		
Materials	Outer Casing	Outer casing: POM (Polyoxymethylene)
	Test Flange	Test Flange: UPE (Ultra-High Molecular Weight Polyethylene)
	Inflatable Sealing Ring	Inflatable sealing ring: Silicone rubber
Size	306 x 328 x 105 mm	
Test Flange size	Based on Esco's standard glove port, with customizable size options.	
Operation time	3 hours	
Weight	4 kg	
Wifi	Available	
Power	Removable battery	
Charging time	≤ 3 hours	
Working time	Approx. 3 hours	
Tablet PC		
Display	10-inch IPS touch screen (1200 x 1920)	
Key	Power button	
Interface	USB 3.0; Type C; HDMI headphone jack	
Battery	Polymer Lithium-Ion 7.4V/6000 mAh	



EIGT Tablet Computer



Charging Station (Optional)
Store and charge up to 8 EIGT

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42 Locations in 24 Countries All Over the World



-  Global Offices
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- Air Shower
- Aseptic Containment Isolator (ACTI)
- Ceiling Laminar Airflow Units
- Cleanroom Transfer Hatch
- Containment Barrier Isolator (CBI)
- Downflow Booth (DFB)
- Dynamic Floor Laminar Hatch
- Dynamic Pass Box
- General Processing Platform Isolator (GPPI)
- Laminar Flow Horizontal Trolley
- Laminar Flow Vertical Trolley
- Pass Box
- Soft Wall Cleanroom
- Ventilated Balance Enclosure (VBE)
- Weighing and Dispensing Containment Isolator (WDCI)

Since 1978, Esco has emerged as a leader in the development of controlled environment, laboratory and pharmaceutical equipment solutions. Products sold in more than 100 countries include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow clean benches, animal containment workstations, cytotoxic cabinets, hospital pharmacy isolators, and PCR cabinets and instrumentation. With the most extensive product line in the industry, Esco has passed more tests, in more languages, for more certifications, throughout more countries than any biosafety cabinet manufacturer in the world. Esco remains dedicated to delivering innovative solutions for the clinical, life science, research and industrial laboratory community.



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