

ESCO
LIFESCIENCES

Esco Manual Glove Leak Tester(MGLT)

Reliable Leak Detection
for Maximum Protection



Introduction

The Esco Manual Glove Leak Tester (MGLT) facilitates accurate and efficient leak detection on gloves, sleeves, and gauntlets within isolators, RABS, and glove boxes. Utilizing the pressure loss principle in accordance with ISO 10648-2, the system ensures consistent and repeatable results to maintain strict containment integrity.

Engineered for ease of use, the MGLT features a digital pressure differential display for real-time feedback and an intelligent inflatable seal mechanism to guarantee a secure, leak-tight dock during testing. This user-friendly solution provides pharmaceutical facilities with the reliable data necessary to comply with stringent data integrity and aseptic processing guidelines.

Characteristics

- **Portable Control System** – Regulates both the inflatable seal pressure of the glove port disc and the pressure injected into the gloves.
- **Secure & Airtight Testing** – The glove port disc acts as a cover, sealing off gloves and sleeves for an accurate leak test.
- **ISO 10648-2 Compliance** – Ensures high-precision testing aligned with industry standards.
- **User-Friendly Operation** – Simple setup with intuitive controls for effortless testing.

Applications

- Pharmaceutical
- Biotechnology
- Cell and Gene Therapy
- Biocontainment Laboratories
- Research and Development Facilities

Key Features



- **Precision Testing with Digital Pressure Differential**
Ensures accurate and reliable leak detection with a clear digital display.
- **Secure Inflatable Seal Mechanism**
Features a shut-off valve to dock the tester securely for an airtight fit.
- **Easy Pressure Injection & Control**
Equipped with an air pressure inject button for seamless pressure application. Includes inflate/deflate controls for adjustable sealing.
- **Intuitive & Step-by-Step Operation**
Simple insertion and docking process. Automatic stabilization to 250 Pa or within a 5-minute timeframe.
- **Reliable & Repeatable Leak Detection**
Designed to maintain isolator glove integrity and prevent contamination risks.
- **Compact, Durable & User-Friendly Design**
Lightweight and easy to operate with minimal training required.

For facilities without access to compressed air, an optional Mobile Compressor is available. Designed with an S5304 frame and caster wheels, it delivers cleanroom-compatible, high-quality compressed dry air, meeting the strict requirements of pharmaceutical and cleanroom environments.



Manual Glove Leak Test Procedure



1. Insert the glove leak tester



4. Allow the system to stabilize



2. Turn the inflatable seal injection valve



5. Note the starting and ending pressure



3. Turn glove injection valve



6. Check if the pressure drop is below 84 Pa

General Specification

Esco Manual Glove Leak Tester (MGLT)		
Materials	Outer Casing	HDPE
	Inflatable Sealing Ring	Silicone rubber
Size	Contact Esco for more details	
Test Flange Size	Circular (200 x 200 mm)	Oval (200 x 300 mm)
Weight	2 kg	

Available Models

Model Code	Item Code	Description
MGLT-O-WC	5180314	Manual Glove Leak Tester (Oval Port 200x300mm) with Mobile Compressor
MGLT-O-WOC	5180313	Manual Glove Leak Tester (Oval Port 200x300mm) without Mobile Compressor
MGLT-C-WC	5180312	Manual Glove Leak Tester (Circular Port 200x200mm) with Mobile Compressor
MGLT-C-WOC	5180311	Manual Glove Leak Tester (Circular Port 200x200mm) without Mobile Compressor

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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
- Evidence Drying Cabinet
- Garment Storage Cabinet
- General Processing Platform Isolator (GPPI)
- Laminar Flow Horizontal Trolley
- Laminar Flow Straddle Units, Single and Double
- Laminar Flow Vertical Trolley
- Pass Box
- Soft Wall Cleanroom
- Sputum Booth
- 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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