

LeSiever® LFT Series Integrity Tester

Since the launch of the first GS Series model in 1998, nearly 30 years of integrity testing technology and application experience have been accumulated. Based on the actual application demands of more than 2,000 users at home and abroad, LEPURE has continuously iterated and optimized, and newly launched the LeSiever® LFT Series Integrity Tester, which can provide a complete integrity testing solution in compliance with industry regulations for filters, ultrafiltration membrane cassettes and various related filtration products.

Product Advantages

- Independently developed software system
- Data Reliability: Exclusive algorithm with dynamic compensation and correction to ensure accurate and reliable test data
- High Testing Efficiency & Stable Pressure: Effectively shorten the testing process; stable test pressure maintains data consistency and result repeatability
- Fully compliant with regulatory and data integrity requirements
- Customizable user permissions
- Automatic FTP data transmission

Typical Applications

- Integrity testing for enhanced membrane cassettes
- Fully automatic tests: Bubble Point, Diffusive Flow, Pressure Hold, Water Intrusion
- Hollow fibers
- Microfiltration filters
- Virus removal filters
- Pressure hold test for stainless steel filtration systems
- Ultrafiltration membrane cassettes (LeSiever® LFT-1020 for high-flow membrane cassettes)



High Efficiency

- **Robust Data Storage Capability:** 1TB storage capacity ensures worry-free data archiving throughout the equipment lifecycle. Data is saved automatically and permanently preserved even in the event of a power outage.
- **Reduced Test Time:** Professionally designed test circuits and sophisticated algorithm software reduce test duration by 20% to 30%. The newly added quick test function can shorten test time by up to 60%.
- **Data Retrieval Capability:** Test data files support multiple search functions, enabling precise online lookups.
- **Data Output Capability:** User accounts and test program files are managed via a database. Rich expansion interfaces support data transfer between the device and computers, as well as printing and exporting PDF files. Network connectivity allows remote printing of A4-sized test reports.
- **Autonomous Software Upgrade:** Supports on-site user-initiated software upgrades, eliminating the need for factory returns and minimizing downtime.
- **Automated FTP Report Transfer**

Compliance

- Features a four-level access control system. Seven types of automatically recorded files, including audit trails and operation logs, can be exported in encrypted format, fully meeting GMP requirements.
- Two-level electronic signature (handwritten signature supported) complies with the electronic data integrity requirements specified in 21 CFR Part 11.
- CE certified, the product conforms to EU regulations.

Technical Parameters

Parameter	LeSiever® LFT-1010	LeSiever® LFT-1020
Test Methods	Bubble Point, Diffusive Flow, Water Intrusion, Pressure Hold, Enhanced Bubble Point Test (Diffusive Flow + Bubble Point)	
Compliance Features	Audit Trail, 4-Level User Access Management, Automatic Zero Calibration, On-site Pressure Calibration	
Pressure Unit	MPa, psi, mbar	
Test Range & Accuracy	Bubble Point: 0.02 MPa-0.7 MPa, ±0.005 MPa (50 mbar) Pressure Hold Test: 0-0.7 MPa, ±1mbar Water Intrusion Test: 0-200 mL/min, ±4% or ±0.02mL/min, (whichever is greater)	
Diffusive Flow Range	0-6500mL/min, ±4% or ±1mL/min	0-20000mL/min, ±4% or ±1mL/min
Ports	RJ45 (Network Port), USB*2	
Touch Display	15.6" True Color Flat Touch Display, 1080p	
Input Languages	Standard: Chinese, English Optional: Russian, Korean	
Printer	Built-in wide-format thermal printer (dot-matrix printer optional); supports simultaneous or selective printing of test results and curves	
FTP	Automatic batch report transfer	
Storage	1 TB HDD, supports storage and backup of all file types	
Data Export Methods	USB flash drive, network connection	
Data Formats	Raw data, PDF	
Gas Supply Requirements	0.3–0.8 MPa, clean and dry compressed air or nitrogen	
Power Supply	AC100-240 V, 50/60 Hz	
Power Consumption	<200 W	
Operating Temperature & Humidity	0 °C ~ 50 °C, < 95% RH, non-condensing	
Dimensions (L × W × H)	377 mm × 270 mm × 297 mm	
Net Weight	10.5 kg	

Standard Accessories

Name	Power Cord	Power On/Off Instructions	Operation Manual	Operation Manual	Air Intake Assembly	Air Intake Assembly	Special U Disk for Tester	VENT Muffler	Product Certificate	Stylus
Quantity	1 piece / sheet	1 piece / book	1 piece / copy	1 piece / book	1 piece / unit	1 piece / unit	1 piece / piece	1 piece / piece	1 piece / piece	1 piece / piece

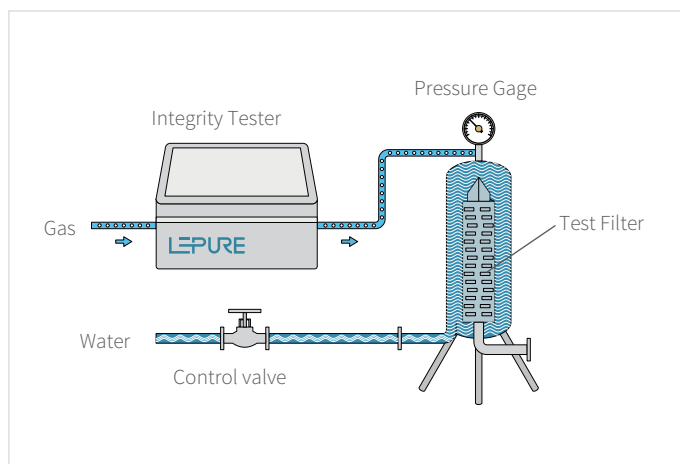
Optional accessories and services

Name	LeSiever® LFT-1010	LeSiever® LFT-1020	Quantity
Stainless steel filter housing for filter cartridge testing	304/316/Single-cartridge / Multi-cartridge		1 set
Stainless Steel Flat Filter Holder for Membrane Filter Testing	304/316 L		1 set
Power Cord	US / EU / UK standard		1 piece
On-Site 3Q Validation	√	√	1 time
Third-Party Calibration Service	√	√	1 time
Buffer Tank	×	25L/50L/100L/150L (Note: 100 L / 150 L volumes are achieved by connecting two 50 L tanks in series)	1 unit
External Reference Tank	×	External Reference Tank	1 unit

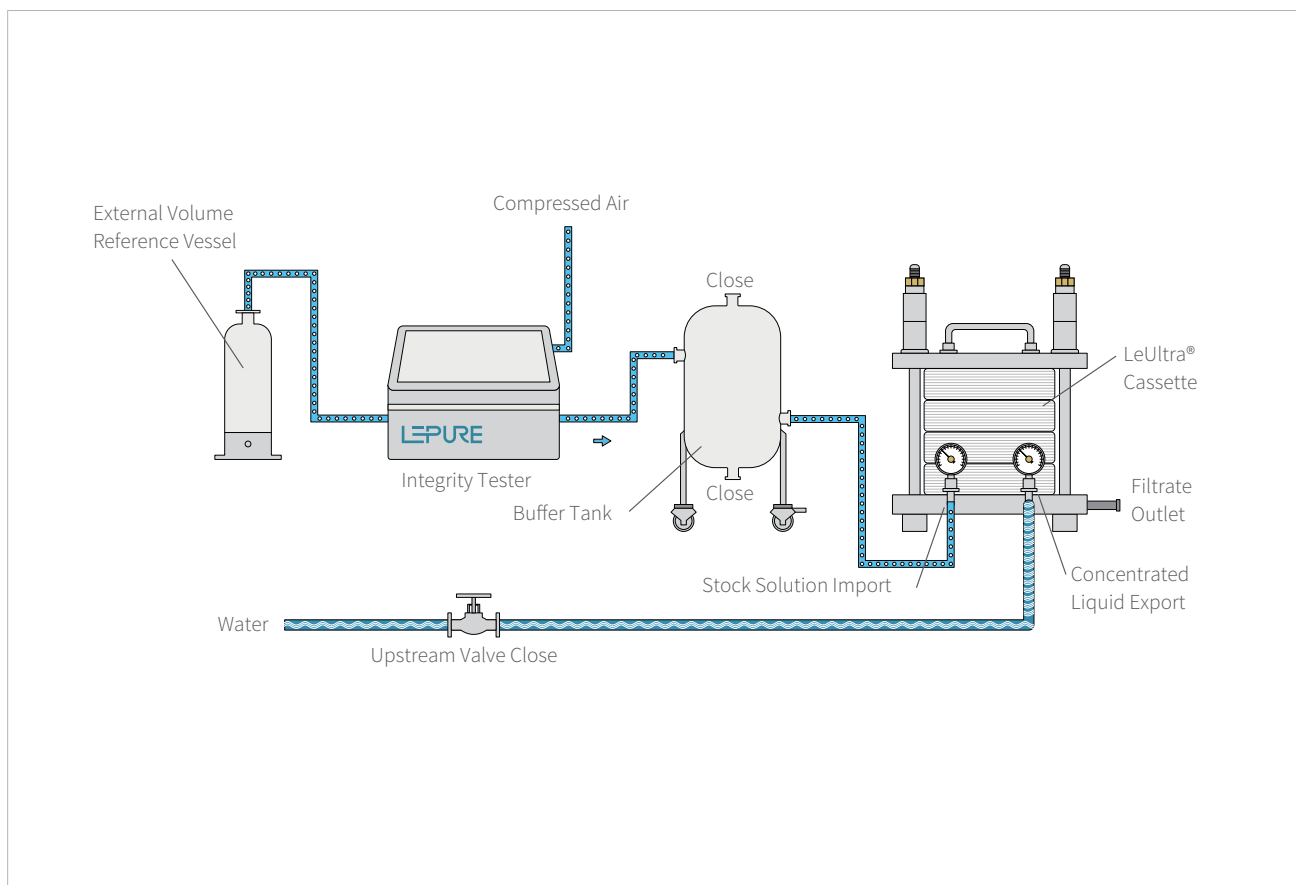
Ordering Information

Product Series	Part Number	Description	Quantity
LFT	LFT-1010-T	15.6" display, high performance, fast test speed, built-in thermal printer	1 unit
	LFT-1010-D	15.6" display, high performance, fast test speed, built-in dot-matrix printer	1 unit
	LFT-1020-T	15.6" display, compact design for high-flow filter cartridge testing, built-in thermal printer	1 unit
	LFT-1020-D	15.6" display, compact design for high-flow filter cartridge testing, built-in dot-matrix printer	1 unit
Buffer Tank	HCG273K 316L	Rated diffusive flow: 0–3000 mL/min / 25 L	1 each
	HCG350K 316L	Rated diffusive flow: 3000–6000 mL/min / 50 L	1 each
External Reference Tank	WCBG102 316L	Upstream volume > 65000mL	1 each
Filter Integrity Tester Validation Service	LFT-1010-3Q	1. Includes document preparation, on-site installation and operational qualification (IQ/OQ), and performance qualification (PQ) with 3 replicate tests on the specified filter cartridge. 2. Validation service duration: number of units + 1 day	1 service
	LFT-1020-3Q		

LeSiever® LFT-1010 Integrity Tester Connection and Diagram



LeSiever® LFT-1020 Integrity Tester Diagram



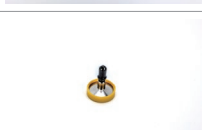
LeSiever® LFT-1010 Integrity Tester Applications



LeSiever® LFT-1020 Integrity Tester Applications



Spare Parts List

Article No.	Part No.	Name	Legend
LFT-0056	521102-000056	Air Inlet Assembly	
LFT-0057	521102-000057	Air Outlet Assembly	
LFT-0212	521101-000212	Thermal printing paper	
LFT-0237	521101-000237	Dot Matrix Printing Paper	
LFT-0059	521102-000059	Stainless Steel TC50 Chuck Type Male Connector	
LFT-0062	521102-000062	Stainless Steel TC50 Chuck Type Male Connector(with check valve)	
LFT-0058	521102-000058	Stainless Steel TC50 Chuck Type Male Connector	
LFT-0063	521102-000063	Stainless Steel TC50 Chuck Type Male Connector(with check valve)	
LFT-0073	521103-000073	Screen Protector	

