



Fully Automatic Filter Integrity Tester 3000 Series



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



>> FILTER INTEGRITY TESTER

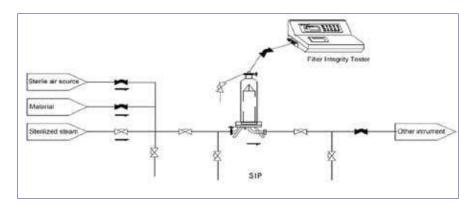
Filter Integrity Tester Integtest series are special instruments of integrity testing for sterile filtration membrane and filter system, where the testing method and instrument design fully meet the requirements for relevant laws and regulations in GMP, EP and USP.

Regulatory Requirements:

- GMP and EU EP have made specific provision for the integrity testing of sterile filter on the test method, where the commonly used methods include bubble point test, diffusion flow test or pressure holding test. GMP regulates that the test is required after the use of sterile filtration. EP regulates that the test is required before and after the use, and at the same time EP regulates that the critical gas and air filter must be confirmed after use, while other filters must be tested on a regular basis.
- According to Drug Manufacturing Quality Management Standard (revised in 2010) Article 310, two
 appendices of Computerized System and Confirmation and Validation are now issued, as the
 supportive documents for Drug Manufacturing Quality Management Standard (revised in 2010),
 effective as of December 1, 2015.
- The requirements for electronic records and electronic signatures as specified in 21 CFR Part 11.

Solutions:

Connection diagram of online test



Applied Range:

- Disc Membrane:Φ25mm-Φ300mm;
- Capsule & Mini Catridge
- Ultrafiltration membrane
- Standard Cartridge:2.5"- 40"
- Air filter test :2.5"- 40"



▶▶ Fully Automatic Filter Integrity Tester Integtest 3600



Features

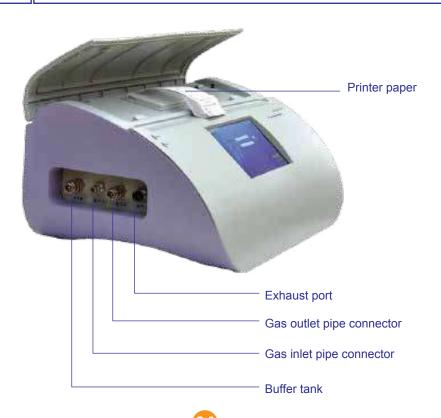
- Powerful functions, covering all the existing test methods for the filter integrity testing;
- The first domestic implementation of integrity testing for the ultrafiltration system;
- Scientific authority management design, password, permissions, authority grading, electronic signature, etc., in full compliance with FDA 21 CFR P ART 11 requirements;
- It can create 80 groups of reservation solution, so the instrument is more simplistic and intelligent;
- It can carry out detection for up to 9-core 20-inch filter cartridge, greatly improving the work efficiency
 of the user;
- With rich data interface, the instrument not only includes the standard configuration of digital and analog interface (RS232/USB), but also can customize a variety of industrial bus and simulation control port according to customer's need, in preparation for the intelligent system upgrade, such as the complete set of online automatic steriliza tion control system;
- Independent research and development team can carry out the design of specific solutions according
 to the needs of customers; Many years of field experience and strong professional services can not
 only ensure that the customers use the instrument at ease, but also can provide the technical support
 for the design and configuration of the filter system of the customers;

Parameters:

Power Supply	100 – 240 VAC, 50HZ, 120W Spare battery (Selection)
Operation Pressure	100-10000 mbar (145psi) ;
Unit	mbar
Operation Condition	Ambient Temperature: +5°C ~ +40°C; Relative Humidity: 10-80%
Dimension(mm)	400 (Depth) *240 (Width) *270 (Height1) *220(Height2)
Function	Manual Bubble point Test; Basic Bubble Point Test; Extensive Bubble Point Test; Pressure Holding Test; Diffusion FLow Test; Water Immersion Test; Ultrafitration Membrane Test



Test Accuracy	Upstream Volume Test:± 4%;Bubble Point Test:± 50mbar; Diffusion Flow Test:± 4%;Water Immersion:± 0.01ml			
Test Scope	BP:100-8000mbar DF:1-600ml/min WI:0.01-100ml/min			
Applied Range	Symmetric and asymmetric membrane test, needle filter, filter bag, flat filter, filter cartridge (9 core within 20 inches), ultrafiltration membrane, ultrafiltration column, a variety of irregular filters			
Authority Management	User Name and Password to Login ,4 Authority Grades, meeting the FDA 21CFR PART 11requirements			
Reservation Solution	80 sets			
Print Function	Built-in printer			
Historical Records	More than 5000 sets unlimited sets records			
Records Copy	Support USB disk to export (Include test curve)			
Display Screen	7 inch, color touch screen			
Serial Connection	RS232/USB			
Language	English			
Work Mode	Online/Offline			
Applicable Environment	Above B level			
Weight	7.5KG			





>> Fully Automatic Filter Integrity Tester Integtest 3400



Features

- Automatic air inlet design, to ensure ef ficiency and test accuracy at the same time;
- The instrument actually measures the up stream volume, so the test result is more accurate;
- Domestic first model to introduce water immersion method;
- Widely used by customers, with a high market share and cost per formance;
- Automatic control of air intake level, with a smooth and safe air intake, to ensure the service life of filter.

Parameters:

Power Supply	100 – 240 VAC, 50HZ, 120W		
Operation pressure	100-8000mbar (115psi)		
Unit	mbar		
Operation Condition	Ambient Temperature : +5℃ ~ +40℃ ; Relative Humidity : 10-80%		
Dimension (mm)	400 (Depth) *240 (Width) *270 (Height1) *220(Height2)		
Test Function	Manual Bubble point Test; Basic Bubble Point Test; Extensive Bubble Point Test; Diffusion Flow Test; Water Immersion Test		
Test Accuracy	Upstream Volume:± 4%;Bubble Point:± 50mbar; Diffusion Flow Test:± 4%;Water Immersion Test:± 0.01ml		



Test Scope	Bubble Point :590-6900mbar Diffusion Flow Speed:1-180ml/min WI:0.01-30ml/min			
Applied Range	Symmetric and asymmetric membrane test, needle filter, filter bag, flat filter, filter cartridge (3 core within 20 inches)			
Print Function	Built-in printer			
Historical Records	500 sets			
Display Screen	5.7" TFT, Single color			
Serial Connection	RS232			
Language	Chinese/English			
Work Mode	Online/Offline			
Applicable Environment	Above B level			
Weight	7.5KG			

>> Fully Automatic Filter Integrity Tester Integtest 3100



Features

- All English operation, mainly used for early exports;
- It has system self-checking function, with an error report function for the system tightness and wrong operation;
- It is microcomputer control of automatic detection, with many kinds of test functions such as bubble point scanning, fast bubble point test and pressure h olding method;
- Real-time print of test results;
- It can be used to test the single core filter and multi-core filte



Power Supply	100 – 240 VAC, 50HZ, 120W			
Operation Pressure	100-8000mbar (115psi)			
Unit	mbar			
Operation Condition	Ambient Temperature : +5°C ~ +40°C ; Relative Humidity : 10-80%			
Dimension (mm)	400 (Depth) *240 (Width) *270 (Height1) *220(Height2)			
Test Function	Pressure Holding Test; Bubble Point Test; Bubble Point Scanning Test			
Test Accuracy	Bubble Point Test ∶ ± 75mbar			
Test Scope	Bubble Point :590-6900mbar Diffusion Flow Speed:1-180ml/min			
Applied Range	Symmetric and asymmetric membrane , needle filter, filter bag,			
	flat filter, filter cartridge (3 core within 20 inches)			
Print Function	Built-in printer			
Historical Records	20 sets			
Display Screen	3.2" ,single color			
Language	English			
Work Mode	Online/Offline			
Applicable Environment	Above B level			
Weight	7.5KG			

Selection Guide

Model / Function	V6.0	V4.0	V1.1	Custom-made
Basic Bubble Point Test	√	√	√	
Extensive Bubble Point Test	√	V		
Pressure Holding Test	$\sqrt{}$		V	
Diffusion Flow Test	$\sqrt{}$	V		
Water Immersion Test	$\sqrt{}$	V		Can be
Ultrafiltration Test	√			customized
Input Method	English/Number	English/Number	English/Number	according to customer's
Electronic Signature	V			actual
Reservation Solution	80sets			require
Screen	Touch Screen			
Historical Records	more than 5000sets	500sets	20sets	
Records Print	V	V	V	
Export Data	√			



▶▶ Glove Integrity Tester GT-3200



Introduction

The on-line gloves Integrity Tester GT-3200 produced by Analytical Technologies is designed according to the positive pressure leak detector principle proposed by GB/T 25915.7- 2010/ISO 14644-7:2004, and it is a dedicated instrument to detect the gloves leakage. The simple and easy design won't need any additional equipment, no need to remove the gloves, with fast detection speed and high precision.

Technical Parameters

Working power supply	AC 220V 50Hz		
Rated power	120W		
Testing duration	2-8min		
Pressure range	500-5000Pa		
Response value	≤ 50Pa		
Noise	≤ 50dB(A)		
Working mode	Continuous work		
External gas source	Compressed air, nitrogen, inert gas		
Sealing pressure	≤ 0.8Mpa		
Historical record	10000 groups		
Print Function	Built-in Printer		
Overall dimensions	370mm*220mm*210mm		
Weight	7.5KG		
On-line gloves tray	Custom-made		



Features

- The instrument adopts a small amount of frequent air inlet mode, with uniform inlet velocity in gloves, to avoid gloves deformation.
- It is equipped with color touch screen and humanized interface design, according to different test parameters, for automatic selection and matching, which can be most adaptive to the current gloves test procedure, date and time display;
- The authority management and electronic signature design is in line with the 21 CFR part 11 for certification requirements of electronic records and electronic signature;
- It is convenient to move, easy to carry and quick to connect;
- Historical records can be used for print, storage and query.

▶▶ Electronic Heater Jacket



To meet the requirements of the new version of GMP, our company has carried out independent research and development and designed the NEH series of electronic heater jacket; The instrument is composed of high performance composite heating material and control unit, and it has been widely used in biotechnology, pharmaceutical and electronics and other fields.



Application

- The drying of condensate of breathing apparatus on the water storage tank in pharmaceutical industry;
- The temperature control of bioreactor and reaction kettle in bi otech industry;
- The temperature control of the high viscosity material in the m embrane separation;
- The temperature control of water system in electronics industry.

Main Features

- It can fully meet the provisions of the new version of GMP;
- Modular design, which can facilitate the system upgrading and r econstruction;
- Good human-machine interface, which can facilitate the operation and control of personnel;
- Special protective performance, which can satisfy the uses in v arious environments;
- Customized insulation sheath, which can improve the heating efficiency and save the energy;
- Humanized design, which can greatly improve the security of the operation.



>> Servicing, Validation, Trainings and Preventive Maintenance:

Servicing : We have team of service engineers who can attend to any make of instrument

promptly @the most affordable cost.

:We also take up preventive maintenance to reduce downtime of instrument's **Trainings**

Trainings.

: We offer user training both in-House and at customer sites on instrument principles, AMC's/CMC

operations, troubleshooting.

We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA **Validations**

norms.

: We offer instruments/Renting Services Modules like pumps, detector etc. on Rent. Instruments

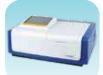




About Analytical Technologies

Technologies synonymous for offering technologies Analytical is for doing and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Clinical Diagnostics, Material Science & General Laboratory Bio Medical, Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers, Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



Spectro 2080+

Double Beam

Optical Emission Spectrophotometer



DSC/TGA



Semi Auto Bio Chemistry Analyzer



HEMA 2062 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 **Chemistry Analyzer**



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph Water purification system

>> Regulatory compliances



Corporate Social Responsibility



Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:

- 1.Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org
- 2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
- 3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

>> Reach us @





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