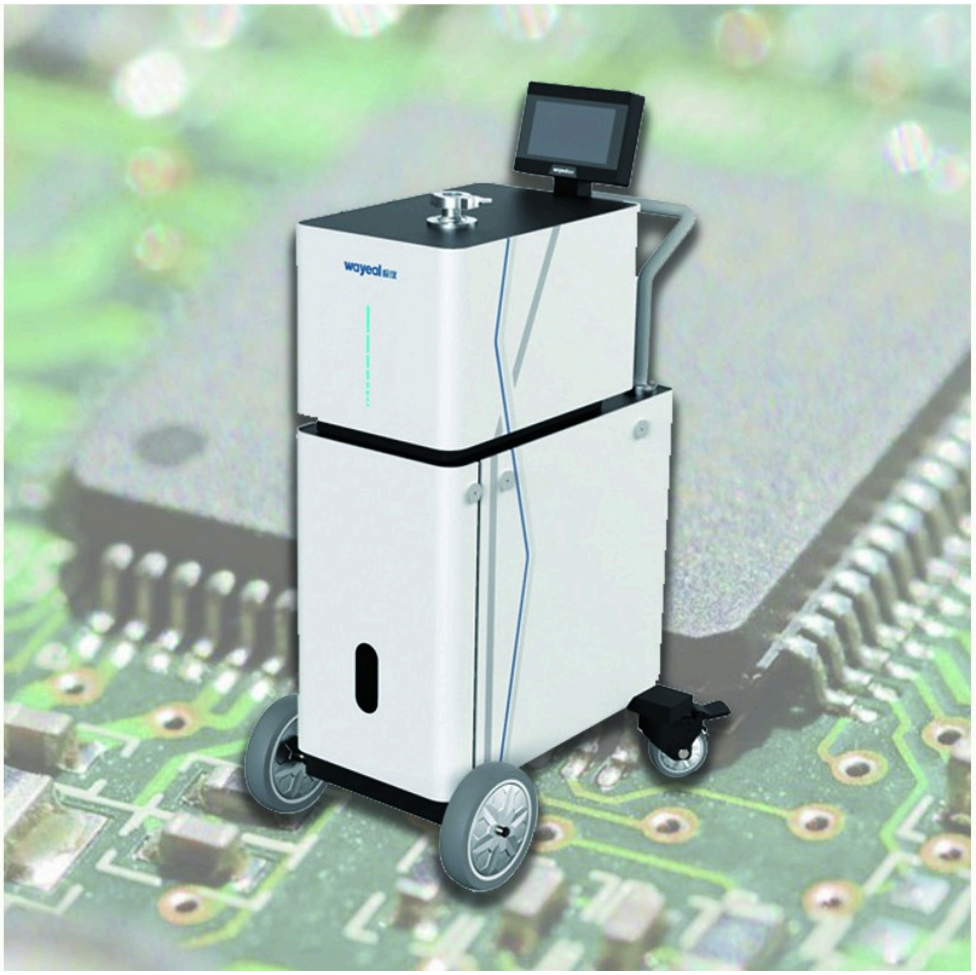
BROCHURE

SFJ-16D

Wayeal

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MODEL AND PARAMETERS

Model and Parameters		Mobile Helium Leak Detector		Mobile Helium Leak Detector	
		SFJ-16C	SFJ-16D	SFJ-16M	SFJ-16M+
Pump		Rotary Vane Vacuum Pump	Dry Scroll Pump	Optional	Optional
Min detectable leak rate in helium mode (Pa·m³/s)	Vacuum Mode	$5.0*10^{-13}$			
	Sniffer Mode	$2.5*10^{-9}$		$2.5*10^{-9}$	$2.5*10^{-9}$
Max Allowable Leak Detection Pressure (Pa)		1800		ULTRA: 40 FINE:200	1800
User Interface		7 inch Color LCD touch screen		5 inch LCD touch screen (Optional)	
Specification of Leak Detection Port		DN25 KF		ULTRA: DN25KF FINE: DN16KF	DN25 KF
Diamension (Width*Deepth*Height/mm)		475*714*1168		337*240*318	375*283*327
Power		AC220V (±10%) , 50Hz/60Hz		DC24V (±5%)	
Response Time (s)		<1			
Start Time (s)		<95			
Detectable Quality		2,3,4 (H2, He-3, He-4)			
Ion Source		2pcs, Iridium coated yttrium oxide, automatic switching			
I/O Input/Output Interface		RS232/485, LAN			
MES Interface		Standard configuration			
Operating Temperature		0~40°C			
Language		Chinese/English			
Leakage Rate Display		Figures, bar graphs, curves			

OPTIONAL ACCESSORIES



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SERVICE COMMITMENTS

Customization
Provide full set of customized solutions to maximize meet the needs of customers

Life-long Service
Original factory warranty life-long service

Rapid Response
Round-the-clock service 7*24 hours timely response

Regular Return Visit
Regular phone or door-to-door visits are made to ensure that the equipment is functioning properly

All-around Training
From installation training to actual operation, from working principle to maintenance, from offline to online, to build a systematic panoramic training platform

MORE TRUSTABLE WITH FOREVER

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HELIUM LEAK DETECTOR

SFJ-16 Series





HELIUM LEAK DETECTOR

SFJ-16 Series



SFJ-16C/SFJ-16D



SFJ-16M



SFJ-16M+

MOBILE HELIUM LEAK DETECTOR（SFJ-16C/SFJ-16D）

- Ergonomic design, with large wheel diameter and low center of gravity for easy passage through narrow and rugged areas
- Sealed structure to avoid pump contamination, suitable for all kinds of production environment
- 270 ° rotating color screen, hierarchical menu management, shorter path to reach what you need

Modular Helium Leak Detector（SFJ-16M/SFJ-16M+）

- Modular design, compact and space-saving
- Core component of an automated leak detection system that can be flexibly integrated into the leak detection system
- More cost-effective, more cost savings

Wayeal has conducted core independent research and development for 20 years, and its mass spectrometry system is mature and stable. After various extreme tests, it work stably under harsh working conditions

After 6 iterations, the software and hardware algorithms in the whole system has been upgraded, with higher robustness, reliability and stability

Digital and analog outputs meet the integration needs of remote operating systems, and are equipped with various communication interfaces such as RS232, RS485, and LAN

HELIUM LEAK DETECTOR

SFJ-16 Series

3-STEP SMART ALGORITHM

STEP-1: Smart Scan Calibration
Scan the spectrum and calculate the maximum value of the response to effectively calibrate the target signal

STEP-2: Smart Screening
Signal identification spectrum, actively identify effective signals, and filter out invalid background noise

STEP-3: Smart Filtering
Filtering of spectrum-independent background noise

ADVANTAGES OF 3-STEP SMART ALGORITHM

- Maintain high-sensitivity detection with rapid background suppression The minimum detectable leak rate up to 5.0x10^{-13} Pa·m^3 /s in Vacuum Mode
- Minimize noise and without missing details, such as the slightest true signal peak
- Low helium background in the briefest time. Even for very low leakage rate detection, the speed can be increased by several seconds
- Significantly reduces daily downtime for maintenance of core components

CONFIGURATION UPGRADE

High Performance Molecular Pumps

Clean Air Circuit System

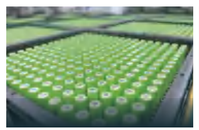
High Speed CPU+ADC

Intelligent Operating System

Wireless Remote Control

With Fault Indication And Alarm Function

APPLICATION



New Energy Industry



Semiconductor Industry



Refrigeration Industry



Photovoltaic Industry



Power Industry



Healthcare Industry



Conventional Vacuum Industry



Other Industries

VACUUM CHAMBER HELIUM LEAK DETECTION SYSTEM

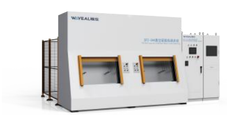
SFZ-344





LITHIUM BATTERY INDUSTRY
[BATTERIES, BATTERY COVERS, BATTERY PACKS, ETC.]

- The production cycle time can be customized to meet customers' high-capacity needs. (Cylindrical lithium batteries: 150PPM, Square lithium batteries: 40PPM)
- Independent charging detection of battery cells realize independent sorting and automatically locate specific unqualified products
- Equipped with a code scanning gun and an industrial computer, production data is uploaded to the MES system in real time to achieve production traceability and management
- Wayeal create helium background removal technology, removing helium contamination to a qualified background value within 10 seconds



POWER INDUSTRY
[SF6 SWITCHGEAR, CIRCUIT BREAKER, ELECTRICAL CASTING, ETC.]

- The roller in the box can be configured to realize the automatic entry and exit of the test components into the box and connect the production logistics line
- The standard cold dryer ensures that the micro-water content of the detection system is less than 150PPM and meets the industry requirements
- Thermal nitrogen dehumidification and micro-water detection functions available
- Equipped with environmentally friendly gas filling function to meet customized requests



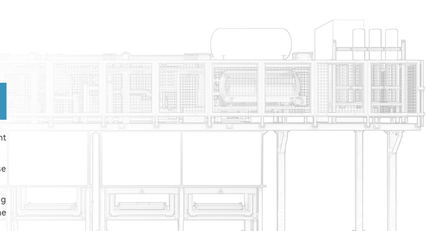
HOME APPLIANCE REFRIGERATION INDUSTRY
[EVAPORATOR/CONDENSER, FOUR-WAY VALVE, LIQUID STORAGE TANK, ETC.]

- In-box/out-of-box inspection available; realize automatic transportation of logistics lines, complete automatic entry and exit of the test components into and out of chamber and automatic detection, reducing manual participation
- Through three-in-one follow-up mechanism, complete synchronization operations and maximize the equipment detecting efficiency
- The sealing tooling can be customized according to the customer's needs, to achieve automatic sealing in the box, automatic inspection, and rapid change of sealing tooling to meet the needs of different test components



AUTOMOTIVE THERMAL MANAGEMENT
[WATER-COOLED PLATE, DIRECT-COOLED PLATE, CHILLERS, HEAT PUMPS, ETC.]

- Implement non-standard customization of loading and unloading modes, such as robot loading and unloading, logistics online loading and unloading, etc
- Meet the detection of water-cooled plates and direct-cooled plates, and switch the test pressure in one step to meet a variety of testing requests
- The automated logistics line realizes the distinction between OK/NG materials and prevents confusion and misplacement caused by personnel intervention
- Through code scanning or RFID identification, data is uploaded to the MES system in real time to achieve production traceability and management
- Quick change of tooling can be achieved



AUTOMOBILE PARTS
[COMPRESSOR, AIR SPRING, MOTOR ELECTRONIC CONTROL, ETC.]

- Sealing tooling can be customized and designed to meet different the test component application
- The robot automatically loads and unloads materials to help customers increase production capacity and reduce manual operations
- According to customer production capacity needs, we provide customized testing solutions such as alternate testing of multiple boxes and multiple-piece testing in one box
- Nitrogen/helium filling pressure is adjustable, which can be set according to customer's demand.Gas mixing system can be configured to provide helium of different concentrations for low-cost detection