



NHJ800D Series Helium Mass Spectrometer Leak Detector

Introduction

NHJ800D Series Helium Mass Spectrometer Leak Detector: A silent, portable, eco-friendly helium mass spectrometer featuring oil-free compressed air exhaust with no oil mist pollution.

Utilizes helium mass spectrometry and inverse diffusion principles, incorporating a 180° non-uniform magnetic field and full automation technology.

Features short startup time, fast processing speed, high sensitivity, reliable performance, and no pollutant emissions.

Performance characteristics

Large Leak Detection: Alarms automatically if preset pressure is not reached during evacuation.

Multiple Units & Data Export: Select measurement units, view real-time data, export directly to Excel.

Rotatable 7" Touchscreen: Adjust orientation comfortably for optimal viewing.

Large Leak Protection: Safeguards ion source from oxidation pump from atmospheric exposure.



Technical Parameters

Min. Detectable Leak Rate of Vacuum Mode	3×10^{-13} Pa·m ³ /s
Vacuum leakage rate display range	$1 \times 10^{-2} \sim 1 \times 10^{-13}$ Pa·m ³ /s
Min. Detectable Leak Rate of Sniffer Mode	5×10^{-9} Pa·m ³ /s
Range of Leakage Rate of Sniffer	$(1 \times 10^{-2} \sim 1 \times 10^{-9})$ Pa·m ³ /s (zero)
Helium Pumping Speed	2.5 L/s
Detectable Gas	⁴ He, ³ He, H ₂
Backing Pump Speed	15 m ³ /h
Start-up Time	≤90 s
Response Time	≤0.5 s
Inlet Pressure	≤2000 Pa
Mainframe Power/ Voltage	(100~120) V 60Hz/ (200~240) V 50Hz
Work Environment	Temperature (5~40)°C Humidity ≤ 80%RH
Language	Chinese / English
Dimensions	(620×370×1027)mm
Weight	110 kg
Display Units	Pa·m ³ /s, mbar·l/s, atm·cc/s, Torr·l/s, ppm

Configuration table

Vacuum pump	Original imported dry pump
Molecular pump	Genuine Import
Vacuum valve	Original imported leak detector, specially customized
Display screen	●
WIFI	○
Cart	●
Remote controler	○
Sniffer	○
Big leak detection	●
Large leakage protection	●
External leak	●
Built-in leak	○
Data saving	●
Auto-zero	●
Display interface	Curve chart, histogram, numerical display
I/O interfaces	RS232, RS485, USB External control input/output, analog output interface

● Standard Configuration ○ Optional