



NHJ480 Series Helium Mass Spectrometer Leak Detector

Introduction

The NHJ480 Series Helium Mass Spectrometer Leak Detector is a fully automatic mobile helium mass spectrometer leak detector with a silent wheel design, suitable for many demanding industries.

Utilizing helium mass spectrometry and reverse diffusion principles, using a 180 ° non-uniform magnetic field and fully automatic control technology, automatic helium peak scanning, automatic calibration, and automatic range switching have been achieved.

It has the characteristics of short startup time, fast calculation speed, high detection sensitivity, and strong anti-interference ability.

Performance characteristics

Unique gas path design, can avoid dust into the instrument interior. Multi-mode function input, output, easy to connect a variety of automation equipment.

Double iridium ion source, strong antioxidant capacity and long service life. The machine is effectively separated from the circuit, avoiding the interference of temperature, electromagnetic field and so on, which makes the leak detector run more stable and reliable.

NOY APP: use mobile phone APP remote over-control leak detector to start, stop, zero. Real-time monitoring leak detector shows leakage rate.



Technical Parameters

Min. Detectable Leak Rate of Vacuum Mode	$3 \times 10^{-13} \text{ Pa} \cdot \text{m}^3/\text{s}$
Vacuum leakage rate display range	$1 \times 10^{-2} \sim 1 \times 10^{-13} \text{ Pa} \cdot \text{m}^3/\text{s}$
Min. Detectable Leak Rate of Sniffer Mode	$5 \times 10^{-9} \text{ Pa} \cdot \text{m}^3/\text{s}$
Range of Leakage Rate of Sniffer	$(1 \times 10^{-2} \sim 1 \times 10^{-9}) \text{ Pa} \cdot \text{m}^3/\text{s}$ (zero)
Helium Pumping Speed	2.5 L/s
Detectable Gas	$^4\text{He}, ^3\text{He}, \text{H}_2$
Backing Pump Speed	16 m^3/h
Start-up Time	$\leq 90 \text{ s}$
Response Time	$\leq 0.5 \text{ s}$
Inlet Pressure	$\leq 2000 \text{ Pa}$
Mainframe Power/ Voltage	(200~240) V, 50Hz
Work Environment	Temperature: (5~40) $^{\circ}\text{C}$
Language	Chinese / English
Dimensions	(620×370×1027)mm
Weight	110 kg
Display Units	$\text{Pa} \cdot \text{m}^3/\text{s}$, $\text{mbar} \cdot \text{l/s}$, $\text{atm} \cdot \text{cc/s}$, $\text{Torr} \cdot \text{l/s}$, ppm

Configuration table

Vacuum pump	Oil-Sealed Rotary Vane Pump
Molecular pump	Genuine Import
Vacuum valve	Original imported leak detector, specially customized
Display screen	●
WIFI	○
Remote controller	○
Suction gun	○
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