

订货信息 Order Information

产品编码 Product Code	型号 Model	名称 Name	备注 Remark
AC001009508	HD-830-2	氮氢检漏仪 Nitrogen-Hydrogen Leak Tester	主机+HA-30+LE-30-2 Mainbody + HA-30 + LE-30-2
AC001009513	HD-830-4	氮氢检漏仪 Nitrogen-Hydrogen Leak Tester	主机+HA-30 +LE-30-4 Mainbody + HA-10 + LE-10-4
AB080007009	HA-30	吸枪 Hydrogen Sampler	吸入式, 量程0.5~1000ppm, 不含电缆 Hydrogen Sampler Type. Range: 0.5 ~ 1000 ppm. Without cable.
AB080006044	LE-30-2	电缆线 Cable	2m电缆线 Cable length 2m
AB080006045	LE-30-4	电缆线 Cable	4m电缆线 Cable length 4m
A039101004	PF060	过滤网 Filter Screen	过滤网 10片/包 10 pieces per package
AC017003010	CEU-1	充排气控制装置 Charge/Exhaust Unit	使用压力0~1MPa, HD-810/830系列通用 Working pressure range 0~1MPa. Common used for HD-810 and HD-830 series.
AC017003011	CEU-5	充排气控制装置 Charge/Exhaust Unit	使用压力0~5MPa, HD-810/830系列通用 Working pressure range 0~5MPa. Common used for HD-810 and HD-830 series.

注: 标准漏孔的选型参考相应的定型产品。

Note: When select standard leak, please see the relevant approved product for reference.

技术指标 Technical Qualification

型号 Model	HD-830
测定方式 Testing Method	吸枪式 Hydrogen Sampler Type
最小可检漏率 Minimum Detectable Leakrate	$1 \times 10^{-7} \text{ Pa.m}^3/\text{s}$ (5% H_2 + 95% N_2), 相当于0.2克/年R134a $1 \times 10^{-7} \text{ Pa.m}^3/\text{s}$ (5% H_2 + 95% N_2), which is equivalent to 0.2g/year of R134a
安装方式 Mounting Type	桌上式, 可面板安装 Desktop, or panel mounting
分辨率 Resolution	浓度: 0.1 ppm 浓度: 0.1 ppm
浓度检测范围 Concentration Detection Range	0.5 ~ 1000 ppm
显示 Display	LCD显示(白底黑字) LCD Display(White Background With Black Character) 显示点阵数 320 × 240 Dot Matrix: 320 × 240 有效显示尺寸 W124mm × D94mm Effective Display-Size : W124mm × D94mm
组号设定机能 Group Setting	0 ~ 15ch (合计16ch) 0 ~ 15ch (16ch Total)
后端子个数 External Terminals	输入信号: 10个 Input Signals: 10 输出信号: 8个 Output Signals: 8 电磁阀控制信号: 8个 Valve Control Signals: 8
电源电压 Power Source	AC 100 ~ 240V, 50/60Hz
功耗 Power Consumption	< 50W
温、湿度范围 Operation Temperature/Humidity Range	5 ~ 40 °C, 45 ~ 85%RH, 无结露 With no Precipitation
重量 Weight	主机 Main Body: 6.5kg 吸枪 Hydrogen Sampler: 0.3kg

主要产品 ● 气密检漏仪 ● 数字压力表 ● 流量计 ● 自动压力、流量控制器 ● 密封性能检测专用设备



公司·工厂: 天津经济技术开发区第九大街80号丰华工业园7号厂区 邮编: 300457

电话: (86)22-59810966 传真: (86)22-59810963

北京营销中心: 北京市丰台区角门18号名流未来大厦801-805室 邮编: 100068

电话: (86)10-87582461 传真: (86)10-87582462

网址: www.boyiqd.com 邮箱: sales@boyiqd.com

公司在广州、顺德、杭州、台州、宁波、上海、苏州、武汉、重庆、西安、济南、沈阳设有分支机构。



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办事处地址

氮氢检漏仪 Nitrogen-Hydrogen Leak Tester

HD-830 系列 Series

- 使用5%氢气+95%氮气的混合气体作为示踪气体
- 符合国际标准 ISO10156 : 2010的非可燃性安全气体
- 最小可检漏率 $1 \times 10^{-7} \text{ Pa.m}^3/\text{s}$ (相当于0.2克/年R134a)
- 对泄漏点精确定位、测量精度高
- 可自动进行ppm, g/year, ml/min, ml/sec, Pa.m³/s换算



- Using mixed gas containing 5% Hydrogen and 95% Nitrogen as a tracer gas
- Non flammable safe gas approved by ISO10156 : 2010
- Minimum detectable leak rate of $1 \times 10^{-7} \text{ Pa.m}^3/\text{s}$ (equivalent to 0.2g/year of R134a)
- Accurate positioning with high sensitivity
- Auto conversion among ppm , g/year, ml/min, ml/ sec and Pa.m³/s

成本更低、灵敏度更高、稳定性更好 Lower cost with higher sensitivity and stability

大屏幕显示 Large Screen Display

中/英文操作界面
Chinese/English operation interface
测试过程曲线显示
Curve display during the detection process



吸枪 Hydrogen Sampler(HD-830)

可进行数据显示及报警 Data display and alert

数据分析显示 Data Analysis Display

▶ 500个历史检测数据查看、图表显示、个数统计，辅助进行质量分析控制。

▶ Review of 500 historical data, graphic display and number statistics can carry out the quality analysis and control.

HD-830:

采用吸入式原理，采样流量可在0–100ml/min范围内调节，在不利于氢气扩散的环境下也能迅速捕捉到泄漏出来的氢气。
Hydrogen sampler principle principle is applied. The sampling flowrate can be adjusted within 0–100ml/min, and the leaked hydrogen can be caught under the condition that is hard for hydrogen diffusion.

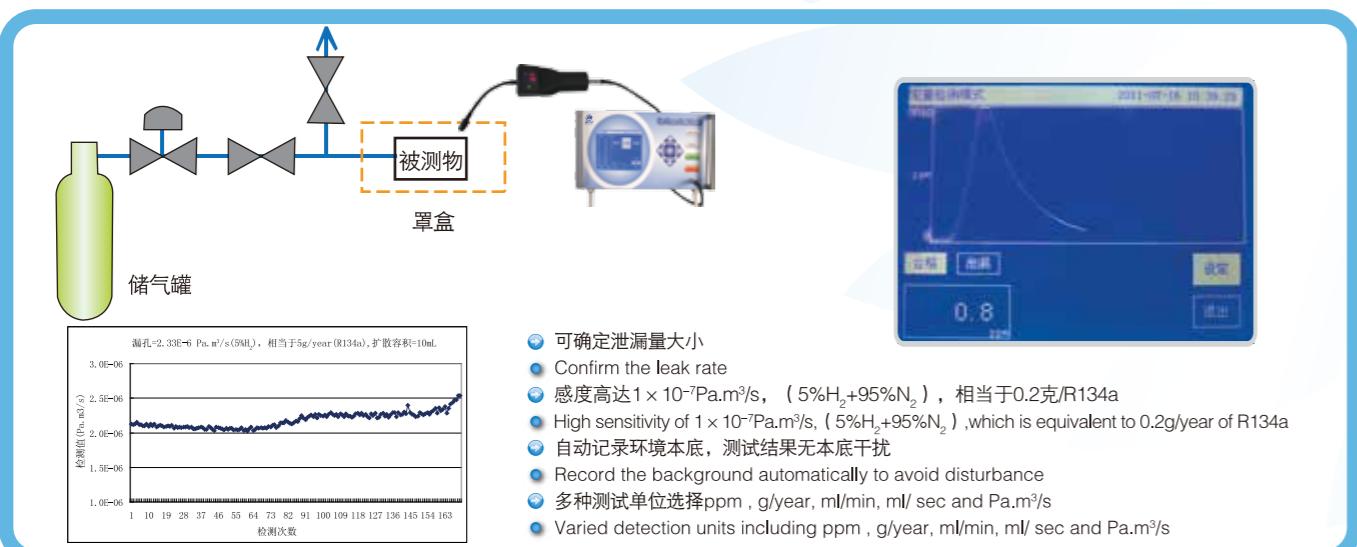
气体特性对比 Gas Characteristic Comparison

种类 Type	氢气 Hydrogen Leak	氦气 Nitrogen	空气 Air
粘性 (mPa·s) Viscosity	8.7	19.4	18.7
分子量 Molecular Weight	2	4	29
本底 Background	0.5ppm	5ppm	–

氮氢法与其他方法的对比 Comparison between Nitrogen-Hydrogen Method and Other Methods

项目 Item	氮氢法 Nitrogen-Hydrogen Detection Method	氦质谱检测法 Helium Mass Spectrometer Detection Method	浸液法 Immersion Method	压降法 Pressure Decay Method
灵敏度 (Pa·m³/s) Sensitivity	1×10^{-7}	$5 \times 10^{-7} \text{--} 8$ (吸枪法) Hydrogen Sampler Method	$10^{-4.5}$	$10^{-4.5}$
响应时间 Response Time	约1秒 Approx.1sec	约1秒 Approx.1sec	缓慢 Slow	缓慢 Slow
成本 Cost	中等 Medium	昂贵 Expensive	便宜 Cheap	便宜 Cheap

定量检测模式 Quantitative Detection Mode



自动清零 Auto Zero Function

消除环境本底对测试的影响
Eliminate the influence caused by background

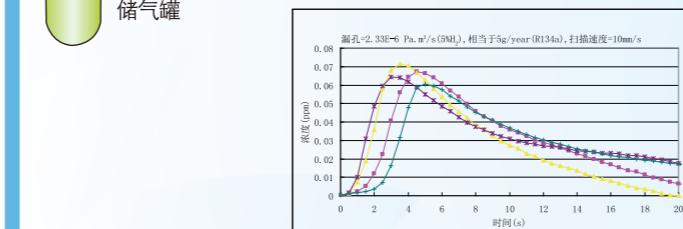
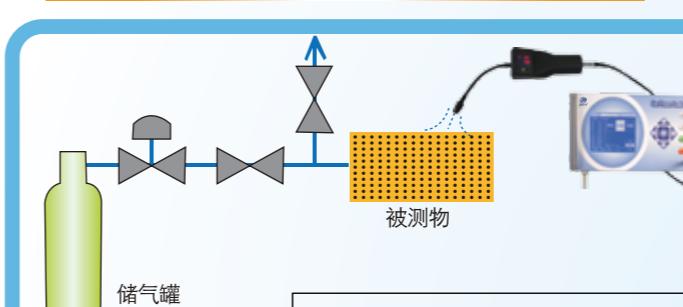
组号设定 Group Settings

可以进行16组参数设定，面板或后端子切换
16 groups available, switchover between manual mode and remote mode

自动检测功能 Self-Check Function

▶ 利用后端子I/O控制，能连接电磁阀、气缸、PLC和充排气控制装置等外部设备配合检测，组成各种检测系统。
▶ With the help of I/O control, external devices including solenoid valves, cylinder, PLC, charge and exhaust units can be connected to form varied detection systems.

定位检测模式 Positioning Detection Mode



- 可确定泄漏点位置
Confirm the leak point
- 响应速度快
Fast response
- 去除时间短
Shortly return to original state

标准漏孔 Standard Leak: FFM-1000



使用气体 Gas Applied

5%氢气+95%氮气，或指定
5% hydrogen mixed with 95% nitrogen, or specified

压力范围 Pressure Range

-0.1MPa~2.0MPa任意指定 Specified freely

漏率范围 Leak Rate Range

$10^{-5} \text{--} 10^{-7} \text{Pa} \cdot \text{m}^3/\text{s}$

外形尺寸 Dimensions

$\Phi 17 \times 77 \text{mm}$

标准漏孔 Standard Leak: FFM-2000



使用气体 Gas Applied

5%氢气+95%氮气，或指定
5% hydrogen mixed with 95% nitrogen, or specified

气罐压力 Pressure Range

-0.1MPa~1.0MPa

漏率范围 Leak Rate Range

$10^{-5} \text{--} 10^{-7} \text{Pa} \cdot \text{m}^3/\text{s}$

外形尺寸 Dimensions

$\Phi 45 \times 290 \text{mm}$

充排气控制装置 Charge/Exhaust Controlling Unit CEU-1/CEU-5



可实现对被测物抽空-充气，保证测试时示踪气体浓度。检测后自动排气-清除，可有效清除被测物内残留的气体.控制测试环境本底。
This device can conduct gas evacuation and charge progress for the measured piece to guarantee the tracer gas concentration. After the detection, automatic exhaust and clearance progress are conducted to remove the residual gas inside the measured piece to control the background.

压力范围 Pressure Range

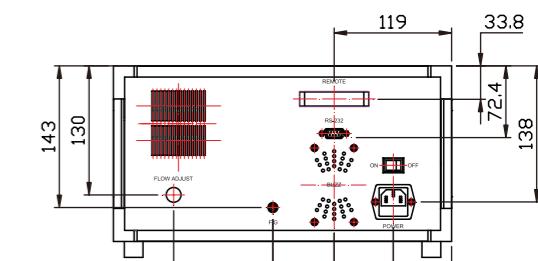
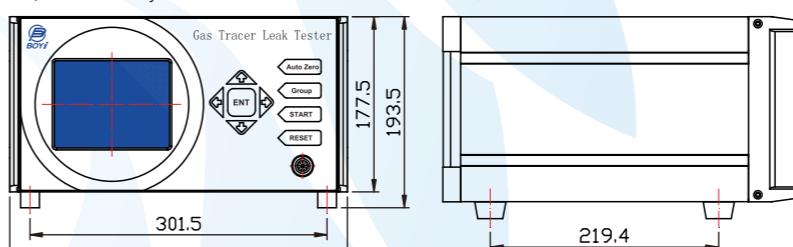
-0.1~1.0MPa -0.1~5.0MPa

外形尺寸 Dimensions

342.6W X 193.5H X 361D (mm)

外观尺寸 Dimensions

主机 Main Body (342.6mm x 193.5mm x 361mm)



吸枪 Hydrogen Sampler (56mm x 46mm x 343mm)

