

氢气炉

Hydrogen Furnace

Technical Features

产品特点

- 炉体采用圆形真空罐体设计,全部为不锈钢材质,耐腐蚀
The furnace body adopts the round vacuum tank design, all of which is made of stainless steel and corrosion resistant.
- 圆形真空炉膛设计保证腔室良好的气密性,并具备较高的耐压强度
The design of the round vacuum furnace ensures good air tightness of the chamber and has high pressure resistance.
- 炉膛材料采用优质的多孔氧化铝真空吸附制成,节能50%,温场均匀
Furnace material is made of high-quality poly-crystalline alumina fiber by vacuum adsorption, saving 50% energy and uniform temperature field.
- 可拓展中、高真空系统,以及浮子或质量流量控制器调节进气量
Extensible medium and high vacuum systems and float or mass flow controllers to regulate air intake.
- 多重安全防爆措施,多种气体排放方式确保良好的工作环境,并可选配备自动点火装置、防回火装置等多种辅助装置,提高设备运行的安全性
Multiple safety and explosion-proof measures, a variety of gas emission methods to ensure a good working environment, and can be equipped with automatic ignition device, anti-tempering device and other auxiliary devices to improve the safety of equipment operation.
- 先进的自动控制及可靠的安全联锁:采用计算机实现温度、动作过程全自动控制、PLC实现安全联锁,具有超压、超温等声光报警及联锁功能
Advanced automatic control and reliable safety interlock: Adopt computer to realize automatic control of temperature and action process, and PLC safety interlock. It has sound and light alarm and interlock function such as over-pressure and over-temperature.



Application

应用

- 晶体材料退火热处理
Annealing heat treatment of crystal materials.
- 厚膜材料烧结
Sintering of thick film materials.
- 片式多层陶瓷电容器烧结
MLCC (Multi-layer Ceramic Capacitors) Sintering.
- 粉体合成和烧结
Powder synthesis and sintering.
- 陶瓷烧结
Ceramics sintering.
- 高温测试
High-temperature Test.
- 陶瓷金属化
Ceramic Metallization.
- 金属热处理(退火、钎焊、时效等)
Heat Treatment of Metals (Annealing, Brazing, Aging, etc).

技术规格 / Main Specification

参数Spec.	型号Model	AHSmo-15/15/15-1700 (A1-17)	AHSmo-20/20/30-1700 (A2-17)	AHSmo-30/30/40-1700 (A4-17)	AHSmo-45/45/45-1700 (A5-17)
设备装料方式 Equipment Loading Method		侧开门装料 Horizontal side loading			
加热功率 Max.Power		7KW	9KW	12KW	30KW
最高温度 Max.Temperature		1700°C			
工作温度 Working Temperature		1600°C			
加热元件 Heating Element		钼棒 Molybdenum Rod			
控温精度 Temperature Accuracy		±1°C			
加热区尺寸 Heat Area Size		150×150×150mm (W×H×L)	200×200×300mm (W×H×L)	300×300×400mm (W×H×L)	450×450×450mm (W×H×L)
容积 Capacity		3L	12L	36L	91L
最大工作压力 Max.Working Pressure		≤0.1MPa			
极限真空度 Max.Vacuum		100Pa (1torr)			
压升率 Pressure Rising Rate		≤10Pa/h (空炉、冷态) Empty furnace, cold state			
测温传感器 Thermocouple		C型钨铼热电偶 W-Re5/26(C-type)			
冷却方式 Cooling Method		充气自然冷却 Natural cooling			
气氛 Gases		氢气、氮气、氩气等 Hydrogen, Nitrogen, Argon, etc			
控制系统 Control System		PLC+HMI			
控制方式 Control Method		手动/自动自由切换 Manual / automatic free switch			
设备外形尺寸 Equipment External Dimensions		1080×1600×1300mm(W×H×L)	1280×1680×1100mm(W×H×L)	1350×1750×1380mm(W×H×L)	2050×1860×1700mm(W×H×L)
备注 Remarks	可定制化 温度: 30°C ~ 1700°C Customizable Temperature: 30°C ~ 1700°C				
	可定制化 炉膛容积: 3升 ~ 3000升 Customizable Chamber Capacity: 3L ~ 3000L				
	可定制化 流量计: 可选配2路质量流量计或2路转子流量计 Customizable Flow Meter: optional two channels mass flow meter or two channels rotor flow meter				
	可选配自动燃烧装置或尾气净化装置 Optional automatic combustion device or exhaust gas purification device				
	可提供该系列氢气炉CE证书 CE certificate for this series of hydrogen furnaces can be provided				

