

真空气氛炉

Vacuum Atmosphere 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.
- 气路接口均采用KF结构快速连接,方便操作
The gas interface adopts KF structure for quick connection, easy to operate.
- 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.
- 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

- 粉体合成和烧结
Powder synthesis and sintering.
- 陶瓷烧结
Ceramics sintering.
- 高温测试
High-temperature Test.
- 质量测试
Quality Test.
- 金属热处理
Heat Treatment of Metals.

技术规格 / Main Specification

参数Spec.	型号Model	AHSms-15/15/15-1700 (A1-17)	AHSms-20/20/30-1700 (A2-17)	AHSms-30/30/40-1700 (A4-17)	AHSms-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		4KW	7KW	12KW	28KW
最高温度 Max.Temperature		1700°C			
工作温度 Working Temperature		1600°C			
加热元件 Heating Element		硅钼棒 Silicon molybdenum rods			
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		B型热电偶 B-Type			
冷却方式 Cooling Method		充气自然冷却 Natural cooling			
气氛 Gases		氧气、氮气、氩气、空气等 Nitrogen, Argon, Oxygen, Air, 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			
		可选配尾气净化装置 Optional exhaust gas purification device			

