

Controlled Inert Nitrogen Hydrogen Atmosphere Furnace

Item Number: KT-16AH



Introduction

Discover KINTEK's Hydrogen Atmosphere Furnace for precise sintering & annealing in controlled environments. Up to 1600°C, safety features, customizable.

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Furnace model		KT-16AH	
Max. temperature		1600℃	
Constant work temperature		1500℃	
Vacuum pressure		0.1Mpa	
Vacuum valve		Needle valve	
Chamber material		Japan alumina fiber	
Heating element		Molybdenum wire	
Heating rate		0-20℃/min	
Temperature sensor		B type thermal couple	
Temperature controller		Touch screen PID controller	
Temperature control accuracy		±1℃	
Temperature uniformity		±5℃	
Electric power supply		AC110-220V,50/60HZ	
Standard Chamber Sizes Stocks			
Chamber size (mm)	Effective volume (L)	Chamber size (mm)	Effective volume (L)
150x150x200	4.5	300x300x400	36
200x200x300	12	400x400x400	64

Customer design sizes and volume is accepted

Standard Temperature controlling	<ul style="list-style-type: none"> PID automatic control via SCR (Silicon Controlled Rectifier) power control with phase angle fired, current limiting resistor. 51 programmable segments for precise control of heating rate, cooling rate and dwell time. Built in PID Auto-Tune function with overheating & broken Thermocouple broken protection. Over temperature protection and alarm allows for operation without attendant
Optional of Temperature controlling	<ul style="list-style-type: none"> Software (Furnace can be operated by PC by installing a control software) Touch screen temperature controller
Furnace structure	Double layer steel casing with dual cooling fan, surface temperature below 60°C

Furnace door	<ul style="list-style-type: none"> • Power cutting off when furnace door open
Warranty	<ul style="list-style-type: none"> • For this hydrogen furnace, One year limited warranty with life time support. (Consumable parts such as heating elements and crucibles are not covered by the warranty, please order the replacement at related products) • ATTENTION: Any damages caused by the use of corrosive and acidic gases are not under the coverage of One Year Limited Warranty.
Hydrogen Furnace Using Attentions	<ul style="list-style-type: none"> • Cooling rate shall also not exceed 10°C/min. • Toxic or explosive gases are not recommended for use with this furnace without necessary safety controls and supervision. • Small cracks may appear on the surface of the refractory ceramics over extended use. This is a normal occurrence and the cracks may be repaired with alumina coating. • Refractory door block must be inserted before closing door.