KLABS High Temperature Vacuum Furnace

Product Description

KLABS KHTVF-1700 High Temperature Vacuum Furnace is designed for high-temperature material processing under controlled atmosphere and vacuum conditions. The furnace features PID programmable temperature control, $MoSi_2$ heating elements, alumina fiber insulation, and a gas inlet/ outlet system for precise thermal applications.

Features

- Side door chamber structure
- LED display
- Double layer furnace body with cooling fan
- Carbon steel furnace shell
- High purity alumina fiber chamber and insulation
- Maximum temperature up to 1700°C
- Continuous working temperature ≤1600°C
- Heating rate 0~20°C/min
- PID automatic temperature control
- 30-step programmable controller
- High purity $MoSi_2$ heating elements
- Gas inlet and outlet system with flow meter
- Double cooling fan structure

KHTVF-1700

Applications & uses

- Material Research Laboratories
- Ceramic Processing
- Powder Metallurgy
- Heat Treatment Applications
- Sintering Processes
- High Temperature Material Testing
- Universities & Research Institutes
- Controlled Atmosphere Processing

Technical Specifications

Parameter	Specification
Product Name	High Temperature Vacuum Furnace
Model Number	KHTVF-1700
Chamber Structure	side door
Display	LED
Furnace body structure	Double layer structure with cooling fan
Furnace shell material	Carbon steel
Inner chamber material	Alumina fiber
Max. Temperature	1700°C
Continuous working Temperature	≤1600°C
Heating Rate	0~20°C/min
Accuracy	±1°C
Inside Chamber Size	150×150×150mm (W×H×D)
Thermocouple	B Type
Heating Element	High purity MoSi2
Insulation material	High purity alumina fiber
Limited vacuum degree	-0.1MPa
Sealing	Furnace door use high temperature silicone rubber seal and seal valves
Working Voltage & power	220V, single phase, 50/60HZ (or per request)
Max Power	4KW
Temperature Controller	PID automatic control via SCR power control, 30 steps programmable
Gas system	One gas inlet and outlet with valves, can pass argon, nitrogen and other gases into the furnace chamber; One gas float flow meter which can control the flow rate of gas.
Furnace structure	Double layer steel casting with dual cooling fan