

PRODUCT DATA SHEET

High-Vacuum High-Temperature Carbonization Furnace

High-Vacuum High-Temperature Carbonization Furnace is developed for controlled carbonization of carbon fiber materials. Design temperature reference: up to 2400°C.



OVERVIEW

Product Overview

The High-Vacuum High-Temperature Carbonization Furnace is developed for staged carbonization of carbon fiber materials. It supports process matching around loading size, atmosphere protection, heating rate and cooling strategy so that users can build a stable batch or continuous thermal route according to product structure and output rhythm.

For users working with fibers, felt, films or carbon preforms, the furnace can be matched to process rhythm, gas handling and working-zone dimensions while maintaining stable thermal ramping and practical maintenance access.

MANUFACTURER

Yuanhang Industrial Furnace

Customized Furnace Engineering

Supplier of customized vacuum, atmosphere, graphitization, carbonization, sintering, brazing and CVD equipment with configurable structure, hot-zone dimensions and automation packages.

Contact Information

Phone: +86 15115399105

Website: <https://www.hnyhgyl.com>

Location: China, Zhuzhou, Hunan

TECHNICAL FEATURES

Technical Features

Supports staged carbonization with adjustable heating and atmosphere paths.

Suitable for felt, fiber, film and porous carbon precursor materials.

Configurable batch or continuous layouts according to production rhythm.

Designed for practical process stability, insulation efficiency and serviceability.

APPLICATIONS

Typical Applications

- carbon fiber materials
- precursor carbonization
- carbon felt production
- fiber and sheet processing

TECHNICAL DATA

Technical Data Tables

TABLE 1

Hot Zone Size (W×H×L mm)	400 × 400 × 1000		600 × 600 × 1500		700 × 700 × 2000	
Ultimate Vacuum度 (Pa)	1X10 ⁻²	1X10 ⁻³	1X10 ⁻²	1X10 ⁻³	1X10 ⁻²	1X10 ⁻³
最高/Working Temperature (°C)	2400 / 2200	2200	2400 / 2200	2200	2400 / 2200	2200
温度均匀性 (°C)	±7.5		±7.5		±10	
Pressure Rise Rate (Pa/h)	0.67					

PRODUCT IMAGES

Image Reference



High-Vacuum High-Temperature Carbonization Furnace
image 2

REFERENCE DATA

Reference Information

Product

**High-Vacuum High-Temperature
Carbonization Furnace**

Process Type

Carbonization

Temperature Reference

2400°C

Manufacturer

**China | Zhuzhou Yuanhang Industrial
Furnace Technology Co., Ltd.**

Website

<https://www.hnyhgy.com>

Contact

+86 15115399105

COMPANY PROFILE

Zhuzhou Yuanhang Industrial Furnace Technology Co., Ltd.

Manufacturer of High-Temperature Industrial Furnaces and Thermal Processing Equipment



Zhuzhou Yuanhang Industrial Furnace Technology Co., Ltd. (Yuanhang Industrial Furnace) is a manufacturing company based in China, Zhuzhou, Hunan, specializing in thermal processing equipment. Centered on heat treatment and high-temperature thermal engineering technologies, we provide customized equipment and complete process solutions for industrial and research applications.

With more than 10 years of dedicated industry experience, we have served over 100 customers. Our principal product portfolio covers graphitization furnaces, carbonization furnaces, vacuum sintering furnaces, silicon carbide sintering systems, CVD furnaces and related custom high-temperature process equipment.

Particular attention is given to practical automation. After the workpieces are loaded and the furnace door is closed, the programmed cycle can be started with one command, allowing the system to operate automatically through the defined process sequence. This helps improve repeatability and reduce dependence on operator experience.

For projects involving vacuum, ultra-high-temperature, brazing, carbonization, graphitization, sintering or CVD-related thermal processing equipment, Yuanhang Industrial Furnace can provide technical communication, configuration support and project-oriented engineering coordination.

- Graphitization and carbonization equipment for carbon materials, felt, carbon fiber and graphite products.
- Vacuum and atmosphere sintering systems for advanced ceramics, cemented carbide and refractory metals.



- Bottom-loading, multi-station and large-format CVD systems for demanding composite processing routes.
- Technical support for furnace selection, custom engineering, retrofit evaluation and process matching.

Sales Hotline

+86 15115399105

Technical Support

+86 15273391550

Website

<https://www.hnyhgyl.com>

Location

China, Zhuzhou, Hunan

This material is intended for product introduction and selection reference. Final configuration, dimensions and technical parameters are subject to the mutually confirmed technical proposal.