

PRODUCT DATA SHEET

# Small Atmosphere / Vacuum Box Furnace

Small Atmosphere / Vacuum Box Furnace is suitable for flexible vacuum or atmosphere processing of polyimide-based films. Design temperature reference: up to 2300°C.

Image available upon request

OVERVIEW

## Product Overview

The Small Atmosphere / Vacuum Box Furnace is a flexible thermal processing system for polyimide-based films under vacuum or protective atmosphere. It is suitable for users who need clean batch treatment, accurate temperature control and practical workshop installation.

The system can be configured according to product geometry, required cleanliness, target temperature path and workshop operating habits.

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

Flexible vacuum or atmosphere processing for mixed laboratory and production needs.

Configurable hot-zone size, temperature path and control structure.

Suitable for users needing clean batch treatment and compact installation.

Practical setup for pilot work, samples or small-batch process validation.

## APPLICATIONS

### Typical Applications

- polyimide-based films
- sample treatment
- small-batch heat treatment
- vacuum / atmosphere laboratory processing

## TECHNICAL DATA

### Technical Data Tables

TABLE 1

设计Model	YHGYL-THL45/45-50 (支持定制)
设计/Working Temperature	2100°C / 2000°C (极限可达 <b>2300°C</b> )
控温/温度均匀性	±0.1°C / ≤ ±3°C (恒温阶段)
Ultimate Vacuum度	≤ 5Pa (冷态空炉状态下)
装料空间	450mm(W) x 450mm(H) x 500mm(D)
Vacuum系统	2H-70 滑阀泵 + 精密Vacuum规管

REFERENCE DATA

## Reference Information

Product

**Small Atmosphere / Vacuum Box Furnace**

Process Type

**Vacuum / Atmosphere Thermal Processing**

Temperature Reference

**2300°C**

Manufacturer

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

Website

**<https://www.hnyhgyl.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.