

Special Applications

FlashAnneal Furnace

Specialized semiconductor high-temperature processing equipment

- Rapid temperature rise
- Uniform temperature
- Compatibility with multiple processes
- Wafer adaptation



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
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www.venuslabtech.com

Overview

Introduction to FlashAnneal Furnace :

It is a device used for in-situ research on the charging and discharging processes of electrochemical systems such as lithium batteries under different temperature conditions. It achieves wide-range and precise temperature control (e.g., -100 ~100 °C, etc.) through liquid nitrogen refrigeration and resistance heating, with a temperature stability of ± 0.1 °C. It supports reflection/transmission optical paths and various window materials, is compatible with analytical techniques such as XRD, Raman, and microscopy, and works with various types including button batteries and pouch batteries. It features quick assembly/disassembly and high sealing performance, enabling real-time observation of changes in the internal structure and electrochemical reactions of batteries, thus providing a reliable platform for research on battery performance and mechanisms.

Specifications

Parameter Table

Parameters	Description
Temperature Range	500 - 1000
Maximum Heating Rate	150 °C/s
Compatible Wafer Size	2 - 6 inches
Cavity Material	Quartz
Power	21kW
Dimensions	534mm×508mm×272mm
Net Weight	42kg

Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification


Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE and RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0 and REACH standards**, ensuring safety and global compliance."

Explore Series

Model	Cavity	Net weight	Temperature range	Overall dimensions
VLS-500-1000	Quartz cavity	42kg	Heating on both upper and lower layers, with a maximum temperature of 1000°C	534mm×608mm×272mm

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

[Get a Quote](#)



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