VENUSLAB
OPTOELECTRONICS

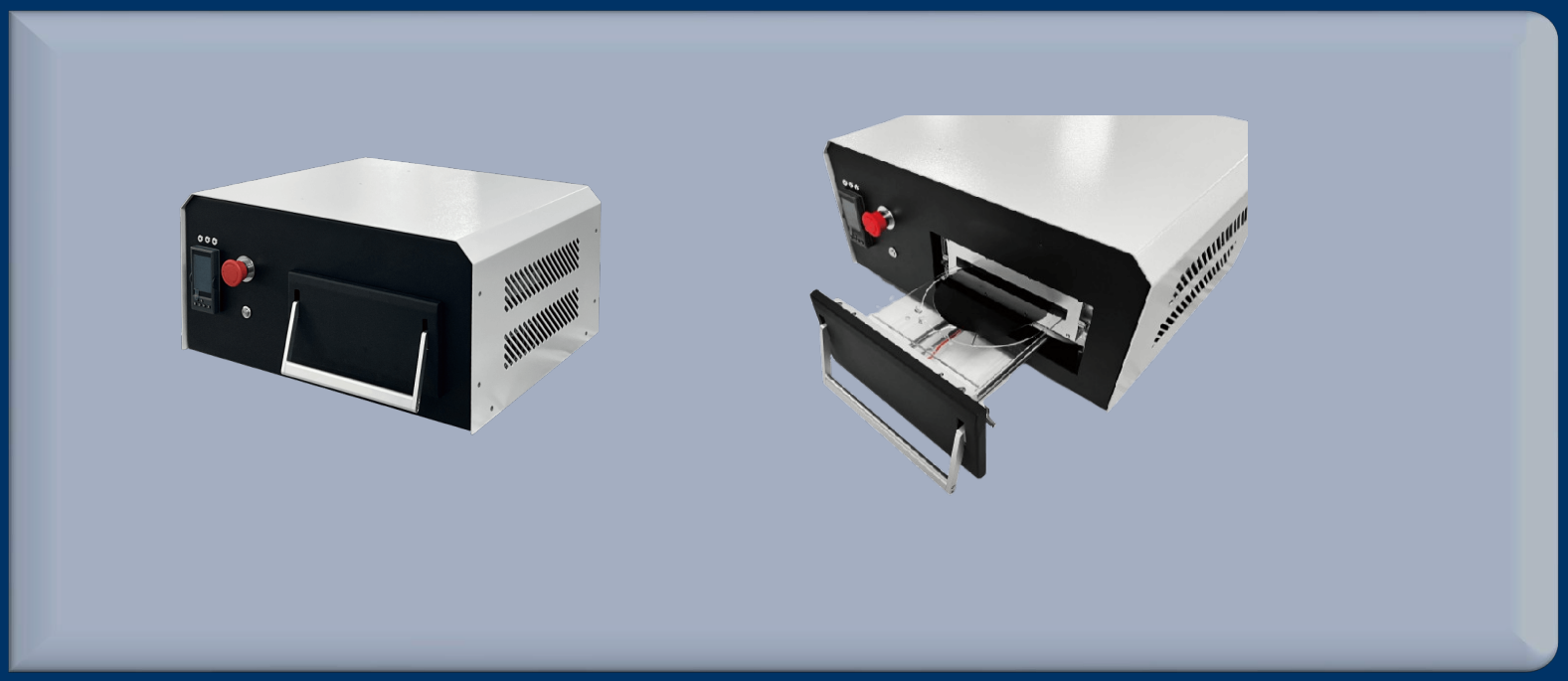
Precision
Meets
Simplicity

Special Applications

FlashAnneal Furnace

Equipment designed specifically for high-temperature processing of semiconductors

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



One Platform Many Possibilities

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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℃, etc.) through liquid nitrogen refrigeration and resistance heating, with a temperature stability of ±0.1℃. 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℃/s
Compatible Wafer Size	2 - 6 inches
Cavity Material	Quartz
Power	21kW
Dimensions	534mm×508mm×272mm
Net Weight	42kg

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 moves cience forward—faster ands marter.