

# Optical

## Multi-window heating and cooling stage for Spectrometer

Multi-window optical design and wide-temperature-range precision temperature control

- Multi-window Optical Adaptation System
- Wide Temperature Range Precision Temperature Control Technology
- High-efficiency Experimental Process Design
- Harsh Environment Adaptability



## One Platform Many Possibilities

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## Overview

### Introduction:

The Multi-window Heating and Cooling Stage for Spectrometer is a high-precision temperature-controlled testing platform specially designed for spectroscopic analysis. Its core function is to provide an integrated solution for samples that combines wide-temperature-range environmental control and multi-dimensional optical observation channels.

This equipment adopts a modular multi-window design, with replaceable optical windows (such as quartz glass or infrared-compatible windows) installed at the top and bottom. It supports multiple spectroscopic testing modes including transmission and reflection, and is compatible with the optical path requirements of mainstream spectrometers such as Raman, fluorescence, and infrared spectrometers.

### Features:

- Pipelines and connecting wires are all located on the chamber surface, making it suitable for closed optical path experiments.
- The angle between the sample area and the window can be adjusted every 15 degrees, which is convenient for optical path adjustment.
- It is compatible with most spectrometer brands on the market, featuring high compatibility.
- Electrical connectors, magnetic stirring systems, etc., can be added to meet more complex experimental needs

## Specifications

### Common Parameter Specification Table

Refrigeration model	Liquid nitrogen refrigeration
Temperature resolution	0.1
Temperature accuracy	±0.01
Maximum heating rate	50 /min
Maximum cooling rate	-30 /min
Testable sample area	30mm*35mm
Diameter of the front observation window	41mm
Vacuum level	1Pa

## Explore Series

Model	Number of window	Net weight	Overall dimensions	Range of Temperature
VLTS600V-SM	4	2.5kg	110mm×250mm	-190°C~600°C

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

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