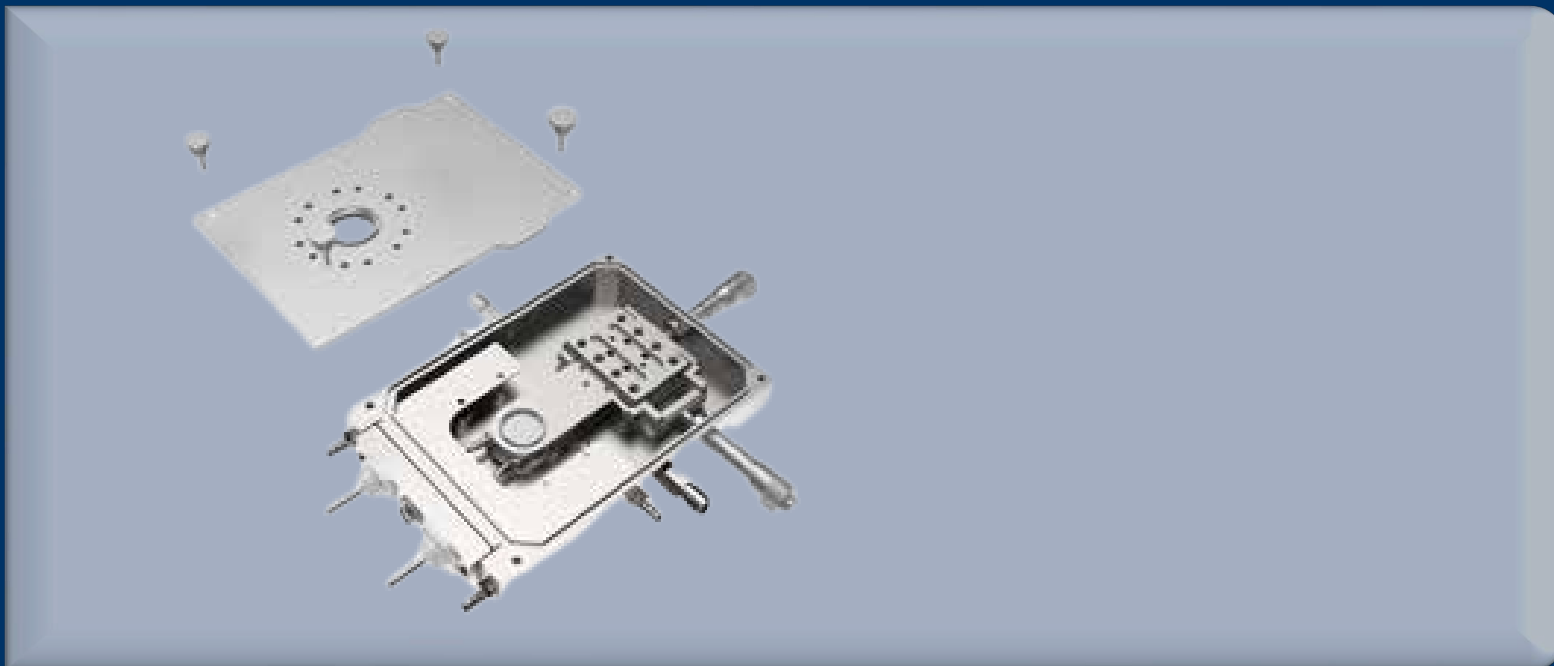


# Hot and cold stage

## ThermoPolar Stage

Ultra-thin wide temperature range temperature control platform adapted to polarizing microscopes

- Full temperature range coverage
- Ultra-thin modular structure
- Precise Temperature Control + Environmental Adaptation



One Platform Many Possibilities

Contact Us [sales@venuslabtech.com](mailto:sales@venuslabtech.com)

Get a Quote



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## Overview

### Introduction:

This is an ultra-thin thermal stage, which is widely applied in the research fields of geological inclusions, organic inclusions, biomedicine, etc. It features a wide temperature range and high precision, capable of meeting the temperature-varying requirements of most experiments.

Moreover, its sample area is movable along the X and Y axes, which greatly facilitates the observation of sample movement under the microscope.

### Features:

- The sample area is highly adaptable: it can be configured with X and Y axis mobility or you can cancel it to make chamber more thinner.
- The entire chamber is lightweight and slim, allowing direct placement on a microscope stage for observation.
- It can operate by vacuum or gas purge.


## Specifications

### Common Parameter Specification Table

Parameter Item	Value
Temperature resolution	0.1°C
Temperature accuracy	±0.01°C
Testable sample area	16mm
Maximum amplitude	2um
Diameter of the light-passing aperture	2mm
Diameter of the front observation window	18mm
Minimum working distance of objective lens	3.5mm
Minimum working distance of condenser	12mm
X&Y positioning accuracy	±6mm
Displacement resolution	0.01mm

## Explore Series

Model	Refrigeration Method	Max Heating Rate	Max Cooling Rate	X&Y Positioning Accuracy	Refrigeration Model	Net Weight	Max Heating	Overall Dimensions	Sample Area Material	Range of Temperature
VL THC120T-PM	-	-	-40°C/min	±6mm	Semiconductor refrigeration	1kg	50°C/min	140mm×95mm×20mm	Aluminum alloy	-30°C~120°C
VL THC180T-PM	Semiconductor	-	-40°C/min	±6mm	-	1kg	50°C/min	140mm×95mm×20mm	Aluminum alloy	-20°C to 180°C
VL THC600T-PM	-	-	-30°C/min	±6mm	Liquid nitrogen refrigeration	1kg	50°C/min	140mm×95mm×20mm	Silver	-190°C~600°C
VL HT600T-PM	Natural cooling	150°C/min	Natural cooling	±6mm	-	1kg	-	140mm×95mm×20mm	Silver	RT~600°C

 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.

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