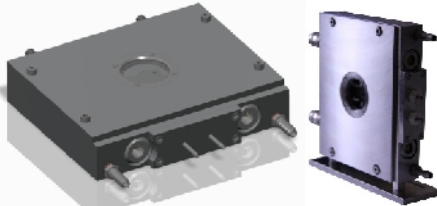


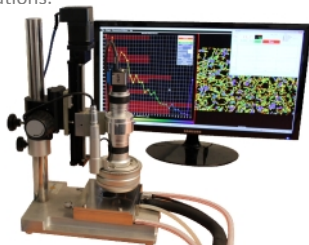


The art of innovation



Microptik's Heating and Cooling Stage
Model: MHCS622-V/G

Microptik's MHCS622-V/G series are temperature controlled heating/cooling and vacuum/gas tight stages. MHCS622-V/G stages are ideal instruments for optical thermal microscopy and spectroscopy applications as well as for other general applications where a broad temperature range is required. MHCS622-V/G can be incorporated easily in any complex high-tech setup. The MHCS622-V/G stages offer the best solution for Geological, Fluid Inclusion, Semiconductor, Photovoltaic, or other Materials Science applications.



Microptik's Thermometry System:
MHCS622-V/G with Top-Eye™ microscope

Microptik's MHCS622-V/G stages are developed for vacuum or/and gas tight applications with temperature range -190°C to 600°C. MHCS622-V/G stages are supplied with a high precision MTDC600 programmable temperature controller. MTDC600 temperature controller can be operated by Software or Manually. It makes the system more adaptive and flexible. For applications below ambient temperature Liquid Nitrogen Cooling System LN2-SYS is provided.

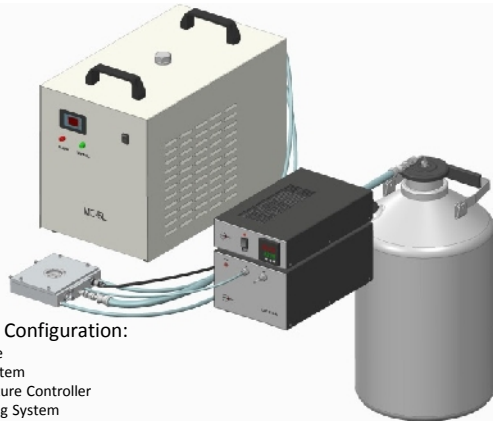


Microptik's Temperature Controller MTDC600
and LN2SYS pump

MHCS622-V/G Vacuum/Gas-Tight Heating and Cooling stages. All in one system!

Microptik has developed a new MHCS622-V/G series of Heating and Cooling Stage with a wide temperature range to operate under vacuum and gas tight Environments. This series has many features:

- Vacuum or Gas Tight Environments
- Wide temperature range
- Programmable temperature controller
- High precision and high resolution temperature measurement and control
- Software or Manual control
- Wide range of viewing apertures
- Removable cover for easy sample access
- Horizontal and vertical mounting
- Vacuum port, gas port, vacuumed 4/6 or 8 pins electrical feedthrough
- Water cooling frame



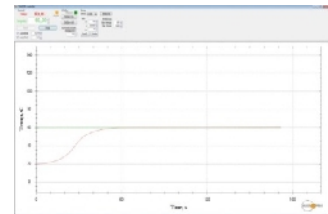
MHCS622-V/G Configuration:
MHCS622-V/G Stage
LN2-SYS Cooling System
MTDC600 Temperature Controller
MC-5L Water Cooling System

MHCS622-V/G Technical Specification:

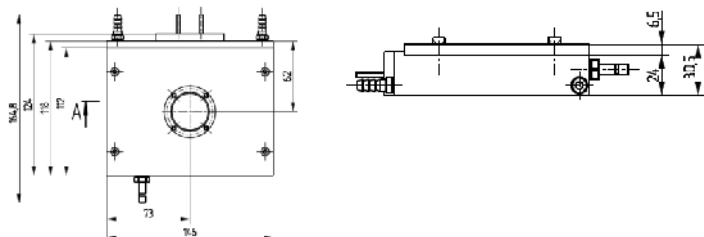
Temperature range	-190°C to 600°C (Below ambient requires cooling accessories)
Temperature resolution	0.1°C
Temperature control method	Switching PID-PID
Temperature control sensor	RTD
Sample area	40mm x 40mm (other sample area optional)
Chamber height	Standard 4mm (other up to 20mm per request)
Sample viewing aperture	32mm (other per request)
Objective working distance	6mm (shorter working distance optional)
Electrical feedthrough	4 electrical feedthrough (other per request)

MTDC600 Temperature Controller and Software

The MTDC600 is a high performance temperature controller with resolution and accuracy 0.10°C. The controller MTDC600 has a built-in power supply and can be controlled manually or through a USB2.0 communication port. Software provides a convenient platform for all possible experiments. PID parameters, temperature limits and control essentials can be easily selected through the relevant menus.



MHCS622-V/G Overall Dimensions



More information! Please contact us info@microptik.eu