

Heating systems for inverted microscopes

■ Heating systems for inverted microscopes

In addition to installing a Minitube heating system in the original stages of inverted microscopes, we offer **heated aluminum and glass insert plates** in various sizes. These can be combined with the original heated stage if the temperature of the whole stage surface is to be controlled. Both the heated stage and the additional insert plate can be controlled by the same **controller with two output jacks** (HTi 200 or HTiG).

Heating system for an original stage of an inverted microscope, including installation [12057/0705](#)

Heated insert plate

glass, circular, for Nikon, Ø 108 mm, 9 W [1] [12057/0033](#)

glass, rectangular, for Nikon, 128 x 86 mm, 18 W [NEW] [12057/0034](#)

glass, circular, for Olympus, Ø 110 mm, 9 W [1] [12057/0052](#)

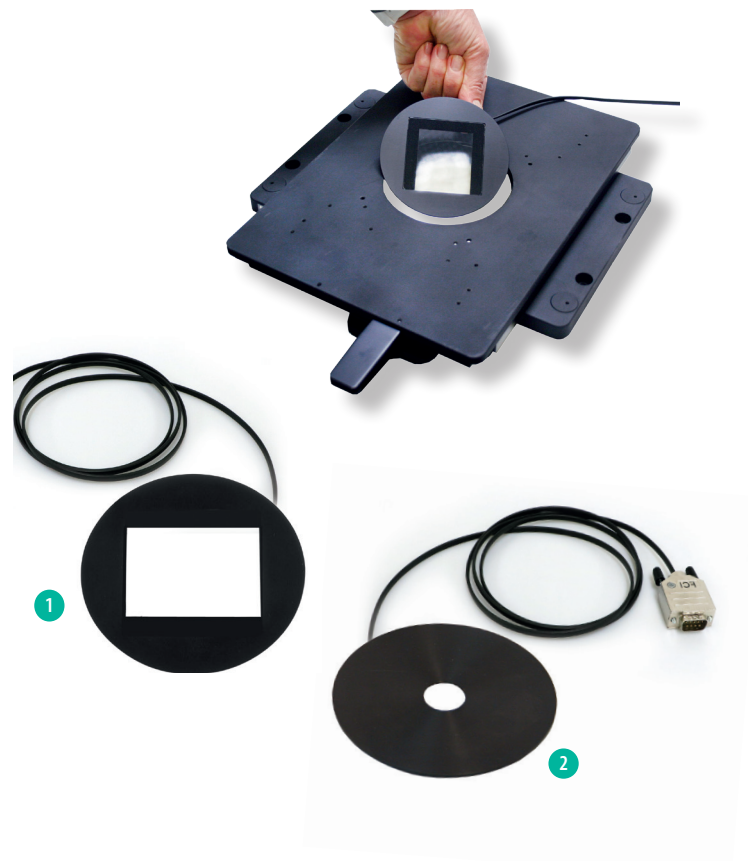
aluminum, circular, for Nikon, Ø 108 mm, 38 W [2] [12057/0820](#)

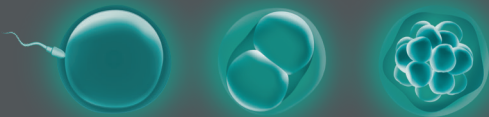
aluminum, circular, for Olympus, Ø 110 mm, 38 W [2] [12057/0825](#)

(★ New heated glass insert

- + New 2-channel HTiG controller with innovative heating technology for maximum glass control accuracy ($\pm 0.2^{\circ}\text{C}$ in the center at 21°C ambient temperature)
- + Optimal temperature distribution and stability
- + Break-resistant glass
- + Maximized glass area
- + Combines with both heated and unheated microscope stages
- + Spring-loaded locking to the microscope stage
- + Cable does not interfere with microscope operation

Additional variants coming soon!





Control units

HTi control units connect to a heated insert plate (1 channel version) or an insert plate and the surrounding microscope stage (2 channel version). The table below provides an overview of heating solutions for inverted microscopes and the control units required.

★ Product features

- Freely adjustable temperature range
- Fully independent control of both channels
- Control accuracy: $\pm 0.1^\circ\text{C}$
- 4.3" color touch screen
- Temperature display in $^\circ\text{C}$ or $^\circ\text{F}$
- Timer function initiates warming of connected devices before work begins (up to 3 daily programs can be set)
- Data logging and readout via SD card (included)
- Visual/acoustic alarm in case of temperature deviation
- Alarm limits can be set separately for each connected device
- Power output: 160 W max.
- Dimensions: 155 x 100 x 150 mm
- Weight: approx. 3 kg

+ Your benefits

- + Easy, intuitive operation via touch screen
- + Graphically animated user interface
- + Highly accurate temperature control
- + Compact footprint
- + Logging function for quality control and traceability
- + Timer function eliminates waiting periods for connected devices to warm up, saving valuable time in the laboratory process



Heating solutions and corresponding control units	HTiG (12057/0201)	HTi 50 (12057/0100)	HTi 200 (12057/0200)
New generation heated glass insert, stand-alone (12057/0034)	●		
New generation heated glass insert plus heated microscope stage (12057/0034 + 12057/0705)	●		
Conventional heated glass inserts plus heated microscope stage (12057/0033 or 12057/0052 + 12057/0705)			●
Heated aluminum inserts, stand-alone (12057/0820 or 12057/0825)		●	
Heated aluminum inserts plus heated microscope stage (12057/0820 or 12057/0825 + 12057/0705)			●

🔗 Accessory

Stainless steel shelf for space efficient placement of heating systems on your workbench. One shelf holds two HTi(G) controllers or one HTi(G) controller and a small warming plate (12057/0500). Several shelves can be stacked to hold even more devices.



Shelf system for control units and warming plates (1 pcs.) [12057/0080](#)