Heating systems for upright and stereo microscopes, warming plates

Minitube microscope heating systems are known for their exceptional technical quality, precision, and uniform temperature distribution. The warming plates, available in various sizes, are especially durable and easy to clean. The temperature control units are designed to be both high quality and easy to use.

With a wide range of standard products, Minitube offers a modular system that allows for customized solutions for various applications in reproductive medicine, biology, chemistry, and more.

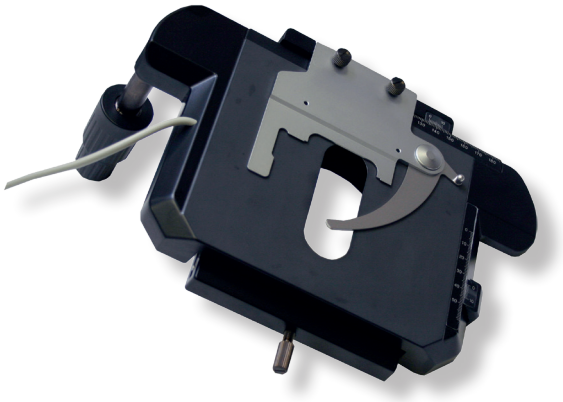
+ Your benefits

+ Complete solutions from a single supplier
+ Modular system for different needs
+ Custom stage modification: integration of digitally controlled and monitored heating systems into an existing stage

Heating systems for upright microscopes

Original microscope stages from all leading manufacturers can be equipped with the Minitube heating system. This technology combines precise temperature control of the object on the stage with the ease of use of the original microscope design. The original microscope stage must be sent to us for installation of the heating system.

Heating system for upright microscope, including installation	12057/0700



Clamp-on heated stage

When installing a heating system in the original stage is not an option, we offer a clamp-on heated stage with a very thin plate. A transversely movable stage holder is attached through a slot in the clamp-on heated stage.

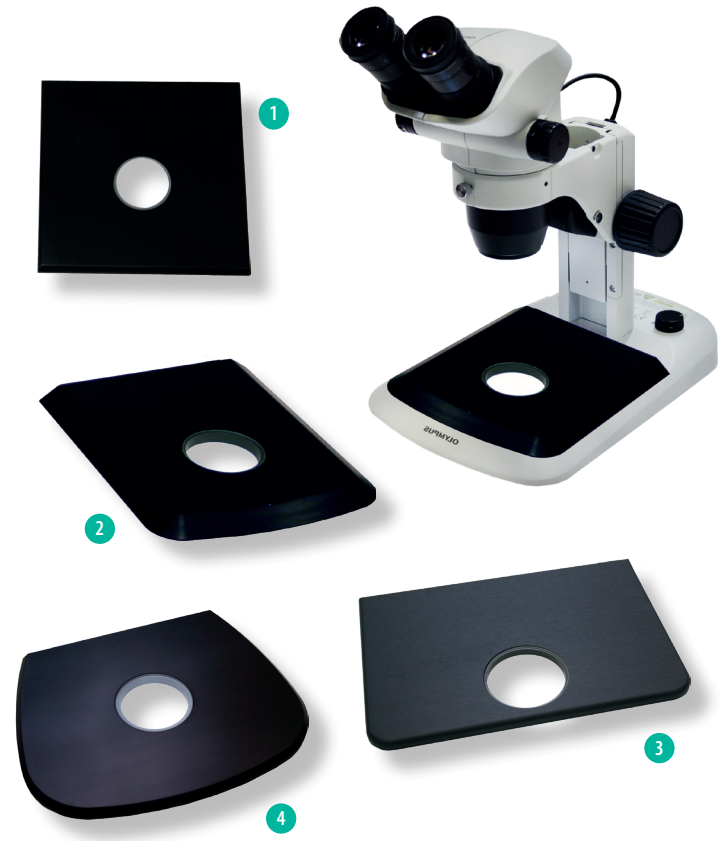
Clamp-on heated stage, 130 x 130 x 3 mm, opening 30 mm (34 W)	12057/0625

minitube human art

Heating systems for stereo microscopes

Minitube offers standard or customized heated stages in all dimensions required for installation on top of the transmitted or incident light base of any stereo microscope. The heated stage is combined with an HTi control unit (HTi 50 for stand-alone operation; HTi 200 or HTi 400 if additional consumers are to be connected).

Universal heated stage for stereo microscopes (23 W), 180 x 180 x 10 mm [1]	12057/0600
Heated stage for Olympus SZ2-Series (22 W), 153 x 178 x 10 mm [2]	12057/0605
Heated stage for Nikon SMZ-U (22 W), 265 x 180 x 10 mm [3]	12057/0615
Heated stage for Nikon SMZ 1000 (22 W), 250 x 203 x 10 mm [4]	12057/0610



Warming plates

Stand-alone warming plates with precise temperature control are available in five standard sizes. The anode treated aluminum surface is extremely durable. Various combinations of warming plates and heated microscope stages can be connected to an HTi controller. Please contact us and we will be happy to advise you.

Small warming plates

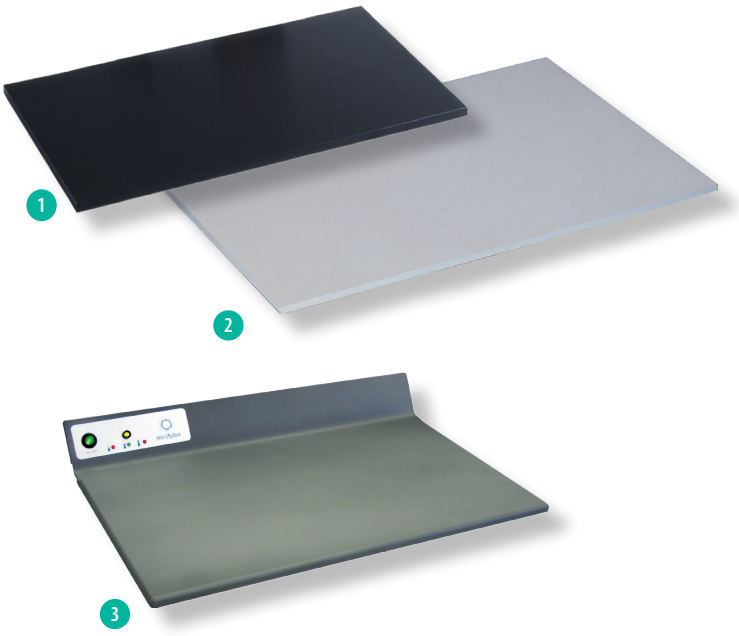
180 x 180 x 6 mm (23 W)	12057/0500
245 x 200 x 8 mm (29 W)	12057/0510

Large warming plates

470 x 263 x 10 mm (130 W) [1]	12057/0520
600 x 400 x 10 mm (122 W) [2]	12057/0530

Warming plate with integrated control unit

470 x 260 x 10 mm, temperature preset to +37°C [3]	12055/0010



minitube human art

Heated microscope stages must be combined with an appropriate controller. Minitube HTi controllers provide precise control of heating systems to within ± 0.1°C and allow the temperature to be selected between ambient and +55°C.

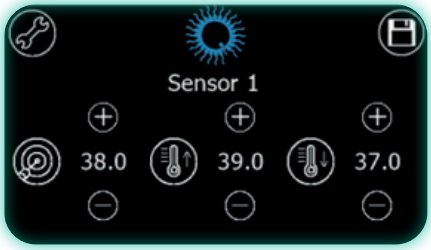
HTi control units

The HTi is a multi-channel control unit with **touch display** and **data logging**. Depending on the model, up to 4 heating systems or warming plates can be connected and controlled.

HTi control units and warming plates are available separately, allowing the user **maximum flexibility** in workplace design. The units are microprocessor controlled and offer very **high temperature stability**.

Alarm limits can be set separately for each connected device and temperature deviations are indicated visually or by an optional audible alarm.

2 channels



Easily set target temperature and alarm thresholds

1 channel

4 channels

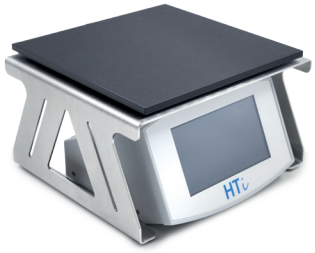
Your benefits

- **Easy to read touch screen display**
  Provides a good view of the actual temperature, even from a distance
- **Ideal size**
  Small footprint to fit even the smallest laboratory
- **Data logging**
  Measurement data can be logged and stored as the unit is equipped with an SD card that records temperature values over a long period of time
- **Advanced combination options**
  All HTi versions can be combined with any Minitube heated microscope stage or warming plate
- **Maximum connection security**
  Control units from Minitube are equipped with a 9-pole SUB-D connector system
- **Easy to keep clean**

Accessory

Stainless steel shelf for space efficient placement of heating systems on your workbench. One shelf holds two HTi controllers or one HTi 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



minitube human art

Control unit	HTi 50	HTi 200	HTi 400
Ref.	12057/0100	12057/0200	12057/0400
Dimensions (W x H x D)	155 x 100 x 150 mm		
Ambient temperature	+5°C to +40°C		
Control range	Ambient temperature up to +55°C/+131°F. User can select °C or °F for the display.		
Deviation	±0.1°C		
Power supply	230 V/50 Hz - 115 V/60 Hz		
Display	4.3" touch screen display		
Output jacks	1 output jack	2 output jacks	4 output jacks
Total power output	160 W	220 W	220 W
Application	Temperature control of a heated microscope stage or a warming plate (1 consumer)	Temperature control of a warming plate and a heated microscope stage (2 consumers)	Up to 4 consumers can be connected to the HTi 400

Small heating solutions

Controller with preset temperature

The HT 10 control unit is preset to +37°C. Temperatures between +35° and +42°C can be set alternatively. An LED indicates when the set temperature is reached.

Control unit HT 10 (28 W), 230 V	12055/0023
Control unit HT 10 (28 W), 115 V	12055/0024

For use with the HT 10 only

Warming plate (18 W), 120 x 120 x 5 mm [1]	12055/0026
Heated stage to be placed on existing microscope stage (18 W), 120 x 120 x 5 mm, opening 25 mm [2]	12055/0025

minitube human art