HEATED GLASS

Temperature control of glass surfaces for IVF technique

The ***Heated Glass Round Insert*** fits into the mechanical stage and provides a flat and clear warm surface where the specimen can be moved freely.

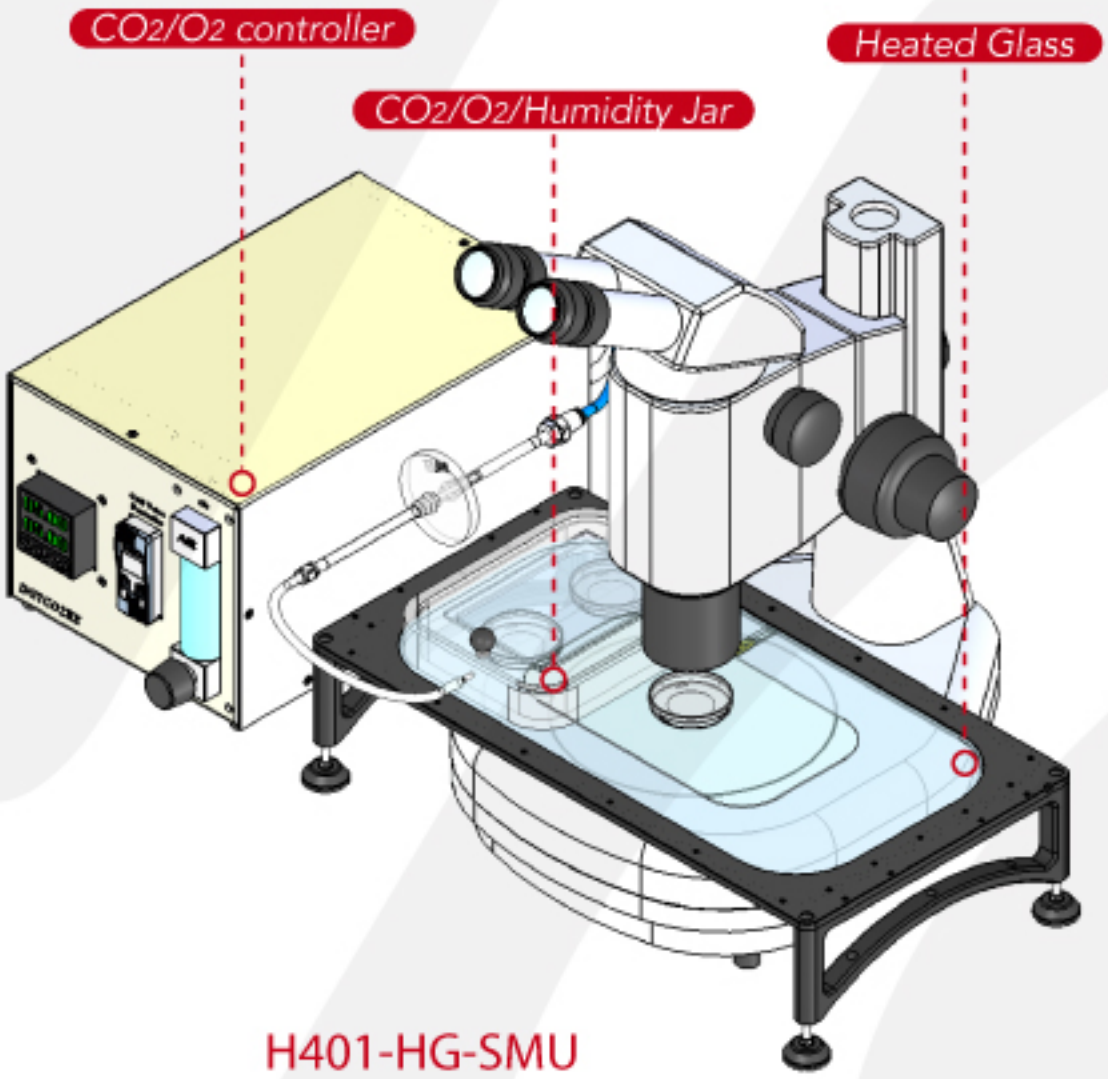
Models with 1mm and 0.5mm glass thickness are available.

Ideal for ICSI and microinjection techniques.

The ***Heated Glass Table*** can be placed in the optical path of any stereo microscope to provide a large, flat, clear, warm surface where several specimens can be maintained at physiological temperature.

Ideal for ova selection and treatment.

The Heated Glass Table can be equipped with the CO_2/O_2 gas controller to maintain the specimen also in a controlled CO_2/O_2 atmosphere at high humidity levels.

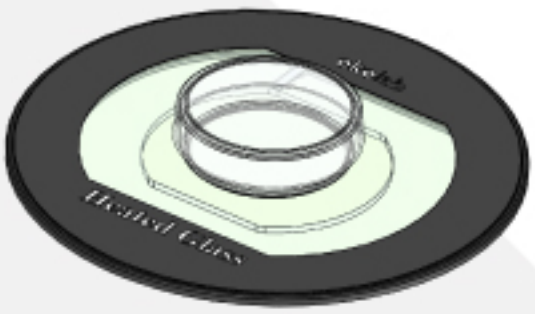


H401-HG-SMU

okolab
Okolab s.r.l.
Via Campana 192 – 80010 Quarto (NA), Italy
website: www.oko-lab.com; e-mail: info@oko-lab.com

HEATED GLASS

The **Heated Glass** Product Line employs special glass which has been coated with highly conductive material. This allows to uniformly and accurately heat up the glass obtaining a warm surface where the specimen can be placed and examined without undesired cooling. The Heated Glass reaches the desired temperature in a few minutes.



Round insert series

H401-HG1-R108 on Nikon Mechanical Stage

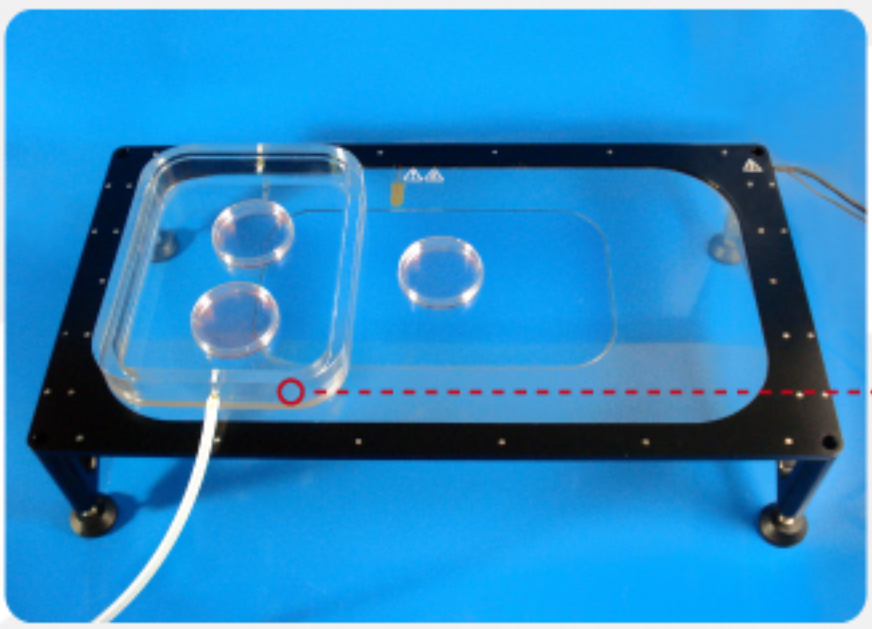
Models available for 110mm and 108mm circular openings, each one with 1mm or 0.5mm glass thicness.

H401-HG[ ] - R[ ]

1 0.5 108 110

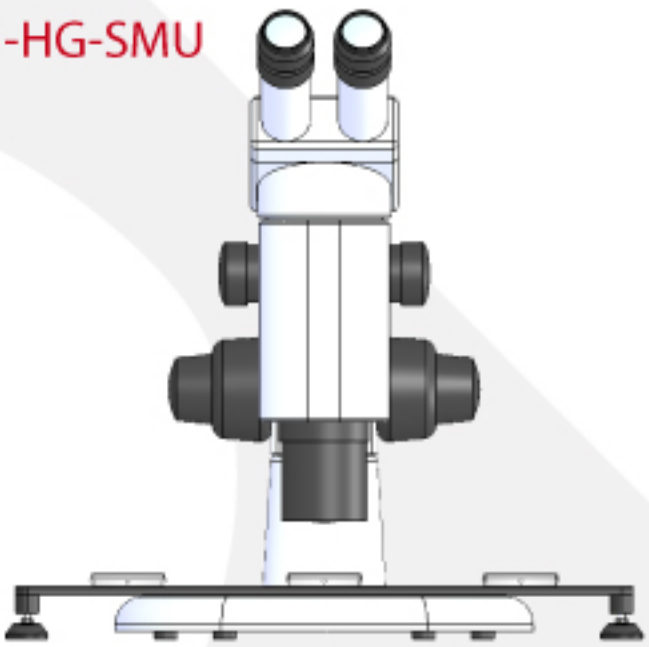
A **temperature sensor** is glued on the glass surface to provide continuous feedback to the controller which maintains the glass surface at the desired temperature. Depending on room temperature, humidity and other parameters, such as Petri size, etc., specimen temperature may differ from glass temperature. Therefore, to achieve 37°C *in the specimen*, it is recommended to calibrate the Heated Glass by means of an external sensor and to determine the relation between the temperature of the glass and the specimen.

Once this calibration is done, it can be easily inserted in the control box and specimen temperature will be kept at 37°C, with an accuracy of ± 0,2 °C.



Maximum temperature difference on the surface in 0.4°C

H401-HG-SMU



CO2 controller

CO2/O2 and humidity control can be achieved by using the Conditioning Jar and the OKO Gas Controllers.
A small amount of gas at the desired CO2 and O2 level will be blown by the OKO Gas Controllers in the Jar to create a microenvironment at the desired temperature and gas concentration. A water reservoir can be inserted into the jar to reduce medium evaporation.

O2 controller

okolab
Okolab s.r.l.
Via Campana 192 – 80010 Quarto (NA), Italy
website: www.oko-lab.com; e-mail: info@oko-lab.com