



CSMI Micro-Incubator

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The CSMI is a versatile microscope stage-incubator for cell/tissue culture work. It is designed to accommodate new rectangular disposable Chamber Slides™ and Chambered Coverglass from the Nunc Lab-Tek® series, and the Falcon® Cultureslide series from Beckton Dickinson. The CSMI, in combination with a matching low noise TC-202A temperature controller, facilitates long term maintenance of tissue or cell cultures on a microscope stage. This allows optical monitoring of dyes, micro-injection, electrical recording, and micro-manipulation for many hours or even days.

The CSMI not only facilitates the precise regulation and manipulation of bath temperature, but also supports multi-channel perfusion (up to 4 channels) and gas atmosphere maintenance, such as CO<sub>2</sub> superfusion for pH control. The CSMI is based on a successful design of the Medical Systems PDMI-2 micro-incubator for 35 mm Petri dishes. The CSMI utilizes a Peltier thermo-electric device to regulate temperature over a wide range both above and below ambient levels. The CSMI fits on the stage of inverted microscopes from major microscope manufacturers including Zeiss, Nikon, Olympus and Leica.

- Ideal for use with rectangular chambered slides and chambered coverglass
- Provides comprehensive micro-environment maintenance, controlling pH, temperature, perfusion and gas atmosphere
- Using Peltier heat pump, heats and cools over 5° to 50°C temperature range
- Accommodates up to 4 pre-temperature regulated perfusion lines
- Provides temperature regulated gas superfusion
- Magnetic base for easy setup of different configurations
- Perfusate removal with minimal disturbance of fluid level using a unique aspirator

## Specifications

<b>Temperature</b>	5° to 50°C with supplementary water cooling,
<b>Operating Range</b>	5° to 10°C below ambient to 50°C without supplementary water cooling
<b>Disposable Chambers Accommodated</b>	Nalge Nunc chambered slides & cover slips Becton Dickinson Falcon chambered slides
<b>Microscopes Accommodated</b>	Zeiss Axiovert with attachable mechanical stage Leica DAS Microscope DMIL and DMIRB/E with attached mechanical stage Nikon Diaphot Olympus IX50/70 or IMT-2 fixed stage
<b>Peltier TED Current Rating</b>	6 A DC maximum
<b>Built In Plate Thermistor</b>	100 kW at 25°C - YSI 44011
<b>Perfusion Inlet Lines</b>	26 GA Teflon capillary up to 4 lines can be installed simultaneously
<b>Perfusion Rate</b>	3 ml/min nominal total
<b>Perfusate Outlet</b>	LU-ASP aspirator
<b>Gas Port</b>	1/16 inch barb
<b>Gas Superfusion Rate</b>	0.5 to 2.0 L/min
<b>Weight</b>	17.9 oz (0.5 kg)
<b>Overall Dimensions</b>	6.5 x 4 x 1 in (16.5 x 10.2 x 2.5 cm)

Catalog No.	Product
CGS 8700.75	CSMI Micro-Incubator
CGS 8701.75	TC-202A Bipolar Temperature Controller