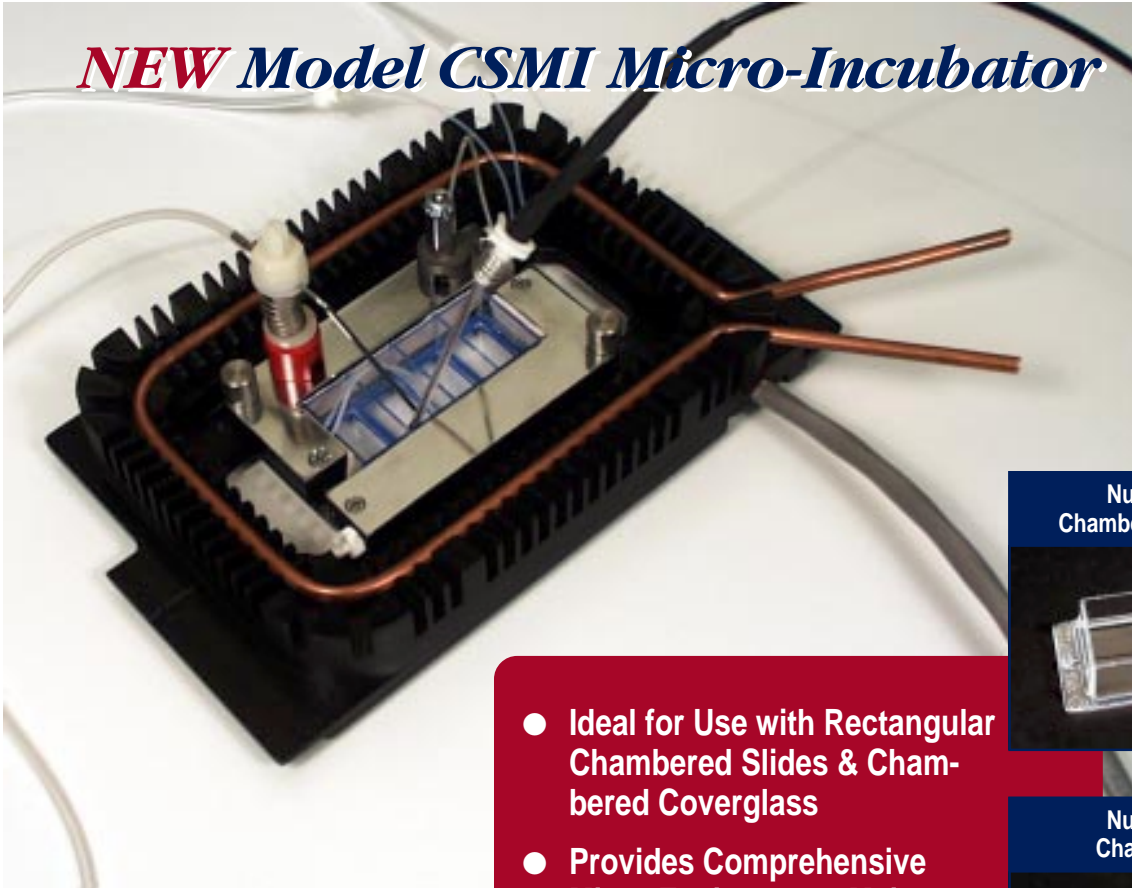




***NEW Model CSMI Micro-Incubator***



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 Becton 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 Petrie 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 & Chambered Coverglass
- Provides Comprehensive Micro-Environment Maintenance, Allows Control of pH, Temperature, Perfusion, Gas
- 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

**Nunc-Lab-Tek®  
Chambered Cover-Glass**



**Nunc-Lab-Tek®  
Chambered Slide**



**Nunc-Lab-Tek®  
Dual Chambered Slide**



**Becton Dickinson Falcon®  
Culture Slide**

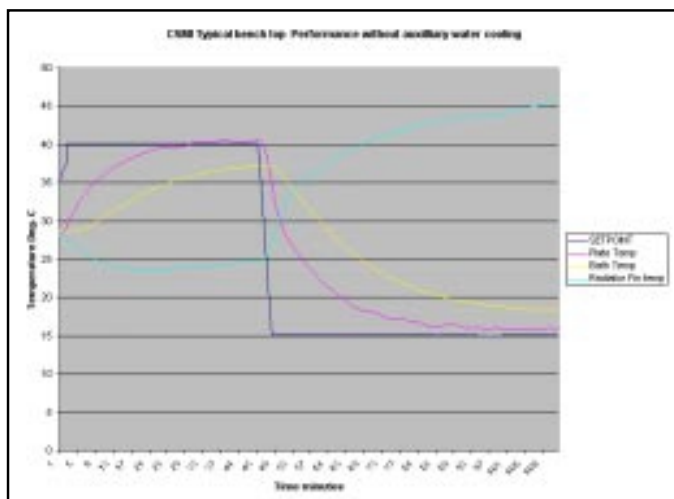


# CSMI Micro-Incubator

## Specifications

<b>Temperature Operating Range</b>	5° to 50°C with supplementary water cooling, 5° to 10°C below ambient to 50°C without supplementary water cooling
<b>Disposable Chambers Accommodated</b>	<i>Nalge Nunc</i> chambered slides & cover slips <i>Becton Dickinson Falcon</i> chambered slides
<b>Microscopes Accommodated</b>	<i>Zeiss</i> Axiovert with attachable mechanical stage <i>Leica</i> DAS Microscope DMIL and DMIRB/E with attached mechanical stage <i>Nikon</i> Diaphot <i>Olympus</i> IX50/70 or IMT-2 fixed stage
<b>Peltier TED Current Rating</b>	6 A DC maximum
<b>Built In Plate Thermistor</b>	100 kΩ 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)
<b>Catalog No.</b>	65-0101

Harvard Apparatus offers complete solutions for all of your perfused microscope stage incubation studies. Systems include a TC-202A Temperature Controller and the peristaltic pump of your choice.



The CSMI typically reaches temperature set point in about 30 minutes and accurately maintains the temperature for hours

The CSMI is designed to fit on specific microscope stages from different manufacturers. Check with Digitimer Technical-Sales for specific information regarding your microscope.



Complete Harvard Micro-Incubation System Including the TC-202A Temperature Controller & Peristaltic Pump 66



Ideal for use on *Leica*, *Nikon*, *Olympus*, and *Zeiss* Inverted Microscope Stages

**HARVARD**  
A P P A R A T U S



**Medical Systems  
Research Products**

United States  
**Harvard Apparatus, Inc.**

84 October Hill Road  
Building Number 7  
Holliston, Massachusetts 01746

United Kingdom  
**Digitimer Ltd.**

37 Hydeway, Welwyn Garden City  
Herts. AL7 3BE

Telephone 01707 328347  
Facsimile 01707 373153  
e-mail sales@digitimer.com