

Cell Incubation

SCILA 4-Position CO₂ Incubator



⊕ Benefits

- ▶ Automated incubator with CO₂/rH
- ▶ Modular capacity scale up
- ▶ Seamless integration
- ▶ Easy cleaning & maintenance
- ▶ Contamination protection

⊕ Features

- ▶ Copper incubation chamber
- ▶ Tool-free access for cleaning
- ▶ Robust construction
- ▶ SiLA communication standard
- ▶ Optional gas mixing device

SCILA CO2 MP- 4

The most compact small scale cell incubator for LabAutomation.



SCILA Product Line

Product Description

The new SCILA (SiLA-based Cell Incubator for Lab Automation) incubator is especially designed for automated cell culture applications for liquid handling systems. The extremely compact SCILA offers four drawer-based positions for SBS micro plates in a copper incubation chamber with control of temperature, humidity, and gas atmosphere. The patented innovative drawer design moves the complete drawer mechanics outside of the incubation chamber, which makes the inside copper surface with rounded edges very easy to clean. For further reduction of contamination, the water tubing of the humidification system is also made out of copper.

The modular design of the SCILA allows to scale up with additional units when required. Fast access of less than 10 seconds and an optimized concept for temperature, humidity and gas atmosphere control enable quick recovery of the incubation conditions after plate access. For easy maintenance and service access to the incubation chamber, the complete front frame and the drawers can be removed by hand and without tools.

Seamless integration into your Lab Automation system

- Easy fit in and around liquid handling systems due to small size
- Quick and flexible software interfacing with SiLA communication standard
- Simple scale-up from 4 to 4ⁿ plate positions with independent access and control of each unit
- 2 Drawer versions: For 96 well culture plates with less than 20mm in height, and for culture plates up to 23mm in height, easily exchangeable

Excellent control of temperature, humidity and gas atmosphere

- Internal temperature uniformity @ 37°C: Max. difference between the plates 1°C, within a plate position 0,3 K
- Saturated humidity with inbuilt security mechanism to control the water level
- External control unit for gas atmosphere, optional
- The SCILA MIX can supply gas for up to 3 SCILA CO2 MP-4

Designed for easy maintenance and service

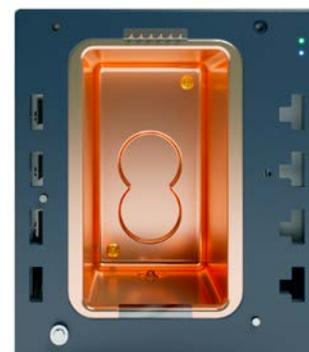
- High level of contamination protection due to copper surface in the incubation chamber and water supply tubings
- State of the art external supply mechanism for sterile water with automated refill
- Additional safety – water tubing is equipped with replaceable Luer-Lock for sterile filter connection
- Easy decontamination due to fast access for service – tool-free disassembly of front cover and drawers.



SCILA front view



Removable drawer



Copper incubation chamber

Main Specifications

Specifications	7300104 SCILA CO2 MP-4
Temperature Range	Ambient +5K to 45°C with CO ₂ /rH
Temperature Accuracy	@ +37°C ± 1.0K
Temperature Uniformity	@ +37°C max. temp. difference 1.0K between plates, 0.3K within one plate
Steady state temp. RT ¹ to +37°C ²	19 minutes (air temperature)
Temperature recovery @ 37°C ^{2,3}	3 minutes (air temperature)
Humidity recovery@37°C ²	25 minutes
Relative humidity @ 37°C	95% +5/-10% (not actively controlled)
CO ₂ ratio (part 3800100)	ca. 5-10% (premixed Gas)
CO ₂ accuracy (part 3800100)	± 0,5% (see product information of SCILA MIX)
Sample evaporation @ +37°C	0,003 g per hour, 4 NUNC 167008 96 well plates x 100µl liquid, at 37°C, rH > 85%, closed drawers



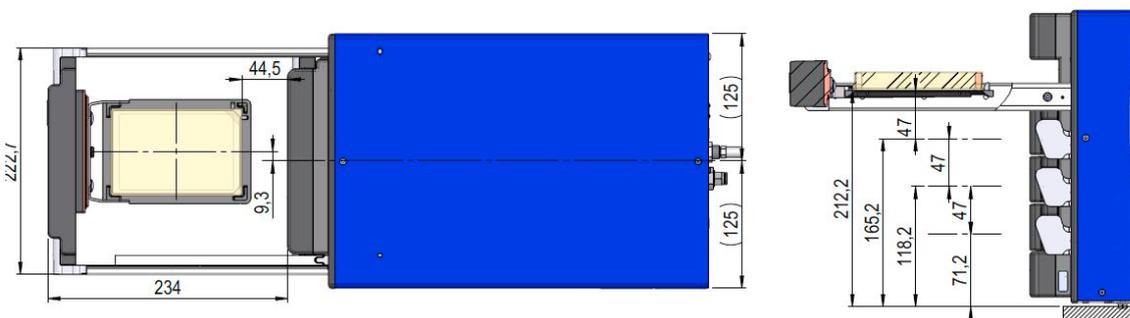
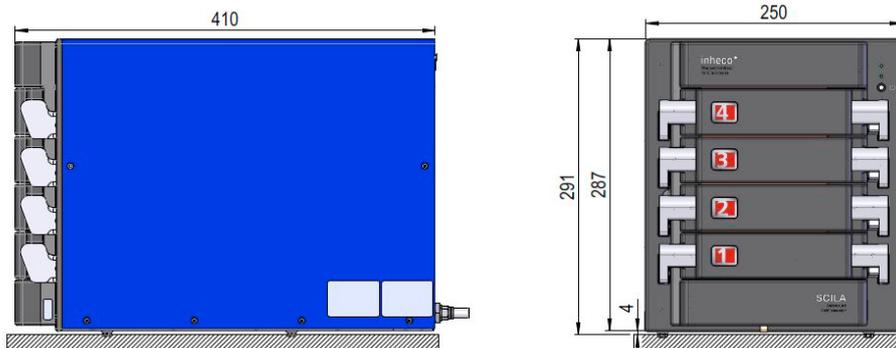
3800100 SCILA MIX gas mixing device, optional

¹ Start temperature 22°C, with water pre-filled (22°C), with CO₂, measured in air with 2 temperature sensors in drawer 2.

² All drawers subsequently opened 10sec each.

³ When measured with the INHECO Measurement Plate IMP - with comparable thermal mass to filled cell culture plate - the specified temperature range of 37°C +/- 1K is maintained.

Drawings



Verification Plate

INHECO offers a compact and precise measurement plate (IMP) in ANSI/ SLAS format for verification of temperature and humidity in the SCILA device. The IMP can be used on heating, cooling, shaking devices and inside incubation chambers. We refer to the IMP brochure for more information.



7901000: INHECO Measurement Plate, IMP

Product	Part No.	Dimension W x D x H (mm)	Weight	Temp. Range
IMP	7901000	87.5 x 128 x 14.9	100 g	+4°C to 60°C

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