



Thermal Innovations and Products

CPAC Microplate

► [Datasheet](#)

CPAC Microplate

Product Description

The INHECO CPAC Microplate is the most compact heated and cooled position, built into the deck or ALP of a liquid handling system. Its footprint is hardly bigger than a microplate, most SBS listed plates can be fitted. With the heat sink located under the deck or in an ALP, it offers a very low overall height. The system is also suited for the heating and cooling of tubes and other disposables. The unit is a ready-to-install high performance thermoelectric device, CE and UL certified.

For single units, the temperature setting and control is performed through an INHECO Single TEC Control (STC) unit. For multiple units (up to six), the temperature setting and control is performed through an INHECO Multi TEC Control (MTC) unit. A slot module is required to connect the CPAC Microplate to the STC/MTC. Please refer to the respective data sheets.

You can choose between various types of aluminum adapter plates to match the required disposable. A microplate positioner to facilitate precise gripper handling is also available. Adapter plates and positioner can be easily taken down for cleaning or changed to another configuration within minutes.

Application Areas

The CPAC Microplate is mostly used on robotic platforms and systems in LabAutomation, to form temperature controlled areas, with direct and easy access by robotic grippers and pipetting heads. The CPAC Microplate is designed for the use in fundamental research, drug discovery, clinical research, diagnostics and other Life Science applications.

The CPAC Microplate is integrated with a number of established LabAutomation systems, primarily:

Beckman: Biomek FX, NX
Caliper: Sciclone, Zephyr
Protodyne: BioCube

Variants

There are two variants available, which differ in the temperature range and cycling capability. The on-deck mounted CPAC Ultraflat unit is integrated on all other major liquid handling platforms, we refer to the CPAC Ultraflat data sheet.

| Product | Article No. | Dimension W x D x H (mm) | Temperature range |
|---------------------------------------|-------------|-----------------------------|----------------------|
| CPAC Microplate ¹ | 7000179 | 89 x 128 x 103 | +4°C to +70°C |
| CPAC Microplate HT 2-TEC ² | 7000163 | 89 x 128 x 112 | +4°C to +110°C |

Height without upper Delrin frame.

¹ CPAC devices optimized for maintaining a constant temperature in the disposable

² CPAC device optimized for high temperature and temperature cycling.

Verification Plate

INHECO offers a compact and precise measurement plate (IMP) in SBS format for verification of temperature and/or shaking performance. The IMP can be used on all INHECO LabAutomation heating, cooling, shaking and incubating devices. We refer to the IMP datasheet for more information.



70000179: CPAC Microplate



8900031: Single TEC Control (STC)



7901000: INHECO Measurement Plate

Main Specifications

| Specification | 7000179 | 7000163 |
|--|----------------|---------------|
| Accuracy at 37°C target temperature* | ±0,3°C | ±0,3°C |
| Uniformity at 37°C target temperature* | ±0,5°C | ±0,5°C |
| Max. input cooling mode | 15 Vdc / 4A | 24 Vdc / 4A |
| Min. input heating mode | 15 Vdc / 4A | 24 Vdc / 4A |
| Input Fan | 12 Vdc / 0,15A | 24 Vdc / 0,1A |
| Ambient temperature | 15°C to 32°C | 15°C to 32°C |

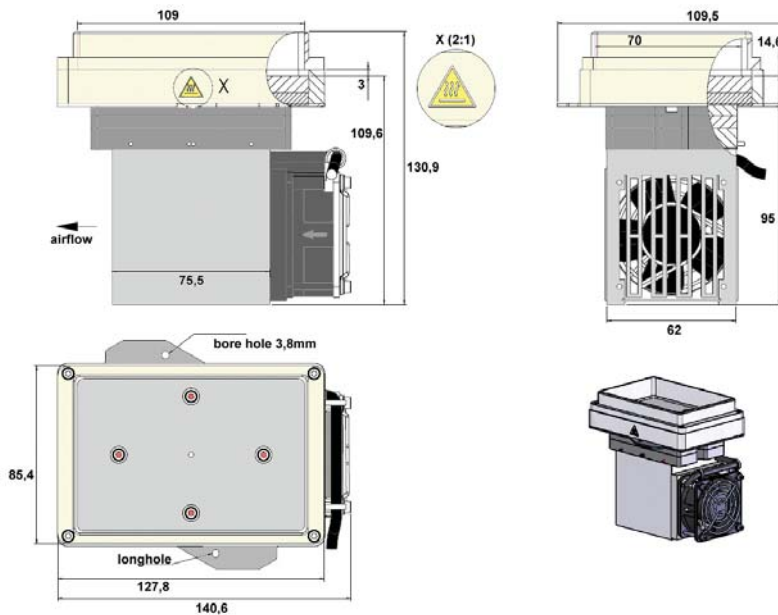
* Data refer to flat bottom plate at 22° ambient temperature



8900030: Multi TEC Control (MTC)

Drawings

CPAC Microplate HT 2-TEC



70000179: CPAC Microplate Footprint



8900033: Heated Lid

Accessories

| Product | Article No. | Product | Article No. |
|--------------------------------|-------------|---|-------------|
| Multi TEC Control (MTC) | 8900030 | Flat Bottom Plate* | 7900016 |
| Single TEC Control (STC) | 8900031 | Micro Plate 96 PCR* | 3200203 |
| Slot CPAC 12V (blue) | 2400128 | Micro Plate 384 PCR* | 3200204 |
| Slot CPAC HT 2-TEC 24V (black) | 2400125 | External Sensor | 2400140 |
| Heated Lid | 8900033 | * Other formats available, see CPAC/HeatPAC adapter plates data sheet. Customizing on request | |
| INHECO Measurement Plate (IMP) | 7901000 | | |



7900016: Adapter Flat Bottom Plate

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This Datasheet can also be downloaded from our website. For further information, please contact our sales department.

