

Heating



HeatPAC and Heated Lid

Compact on-deck heating device

HeatPAC heating device

Highest temperature range and most compact heating system

HeatPAC and Heated Lid

HeatPAC

The INHECO HeatPAC is especially made for integration on deck of robotic workstations. It is designed for stationary heating up to 135 °C of almost any ANSI/SLAS format disposable. Due to its low profile of only 40 mm, deepwell plates or other tall disposables will fit on most liquid handling workstations, even when space is scarce between the pipetting head and the deck. The footprint of the HeatPAC is hardly bigger than that of a standard disposable. Its flexible cable routing with cable exit downwards, sideways, or lengthways allows for a seamless on-deck integration. This unit is a ready-to-install high performance heating device, with CE and UL certification.



HeatPAC with 7900016 Flat Bottom Adapter & Positioning Frame, 7900046

Features

- Space saving thermal block with low profile (40 mm)
- Wide temperature range from ambient +5 K to 135 °C
- Open access heating unit
- Adapter plates available for a wide range of microplates, DWP, tubes, reservoirs, etc.

Heated Lid

The INHECO Heated Lid can be used as an extra add-on heater on top of the HeatPAC (or CPAC heating & cooling units), to increase heating rates, to improve temperature uniformity (especially for deepwell plates), and to enable longer duration incubation. The Heated Lid prevents condensation at the top of the plate, and reduces evaporation losses without the space consumption of a dedicated incubator. The Heated Lid has a flexible cable and only weighs 420 g, allowing most gripper systems to transport it, yet it is heavy enough to seal the plate. Thus, the Heated Lid can easily be integrated into fully automated lab processes.



Heated Lid, 8900033

Features

- Condensation prevention when using sealed plates
- Temperature from ambient +5 K to 115 °C
- Fully automated processing possible due to flexible cable and low weight
- Increases total heating rates & temperature uniformity on HeatPAC

Application areas

HeatPAC and the Heated Lid are used on robotic platforms to form temperature controlled areas, with direct and easy access for robotic grippers and pipetting heads. The control units (MTC / STC) of the HeatPAC & the Heated Lid allow for effortless integration into all major liquid handling systems, such as:

Agilent:	Bravo, BioCel
Beckman:	Biomek FX, NX, 3000, 4000
Hamilton:	Star Line, Nimbus, Vantage
Tecan:	Freedom EVO, Fluent, Genesis, Temo
PerkinElmer:	Janus, Multiprobe II, Sciclone, Zephyr
Zinsser:	Lissy
Sias:	Xantus



HeatPAC, 7900046 with Heated Lid, 8900033

Main specifications

Specifications	7900046 HeatPAC	8900033 Heated Lid
Temperature range	ambient +5 K to 135 °C	ambient +5 K to 115 °C
Accuracy at 37 °C target temperature ¹⁾	±0.5 K	not applicable
Uniformity at 37 °C target temperature ¹⁾	±0.5 K	not applicable
Ambient temperature	15 °C to 32 °C	15 °C to 32 °C
Weight	310 g	420 g
Dimensions W x D x H (mm)	132 x 89 x 40	134 x 91 x 19
Max. input heating mode	24 Vdc / 4 A	24 Vdc / 4.8 A



MTC Compact, 8900029
Single TEC Control (STC), 8900031
Multi TEC Control (MTC), 8900030

¹⁾Data refer to flat bottom plate at 22 °C ambient temperature

Alternatives

The HeatPAC is optimal for applications that only require heating. For heating with accelerated (active) cooling or cooling below ambient temperature, please refer to our heating & cooling product range (CPAC) and the respective brochure.

Controller and accessories

For single HeatPAC devices, the power supply and temperature setting/control is performed through the INHECO Single TEC Control unit (STC). For multiple (up to six) INHECO heating & cooling units – incl. HeatPAC – an INHECO Multi TEC Control unit (MTC, with display) or MTC Compact (no display) is used and each device is controlled individually. A slot module is required to connect the HeatPAC to the STC/MTC.

For optimal temperature transfer an adapter is always needed. On our website, you will find a list of existing adapter variants for a broad range of disposables with or without insulation. In case you need an adapter for your disposable which is not yet on the list, we offer to custom design and manufacture it on request.

For heating & cooling solutions please refer to the INHECO CPAC.



Footprint of HeatPAC with positioning frame, 7900046

Verification plate

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

Product	Part No.	Dimensions W x D x H (mm)	Weight	Temperature range
IMP	7901000	87.5 x 128 x 14.9	100 g	4 °C to 60 °C



INHECO Measurement Plate (IMP), 7901000

Accessories

Product	Part No.
MTC Compact	8900029
Multi TEC Control (MTC)	8900030
Single TEC Control (STC)	8900031
Black Slot Module	2400125

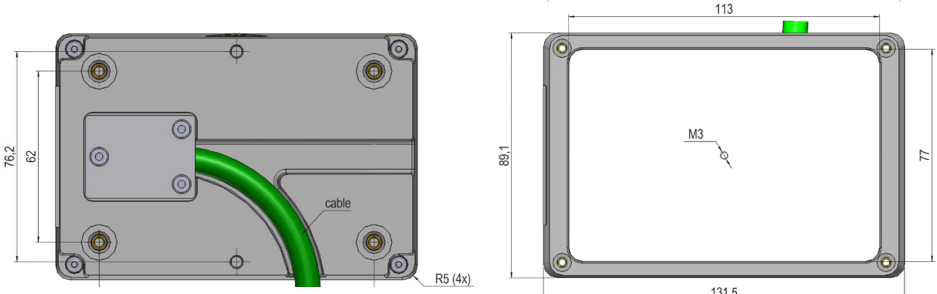
Adapter plates¹⁾

Product	Part No.
Flat bottom adapter	7900016
Micro plate 96 PCR	3200203
Micro plate 384 PCR	3200204

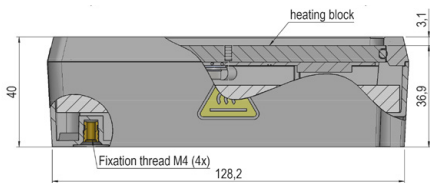
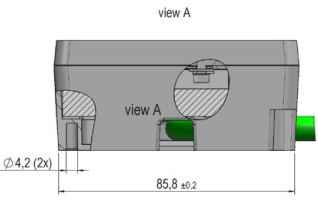
¹⁾Please check our website for other available adapters. We also customize upon request.

Visit us on www.inheco.com

Drawings HeatPAC



cable routing lengthways, sideways or downwards



Drawings Heated Lid

