



Thermal Innovations and Products

Multi TEC Control

► [Datasheet](#)

Multi TEC Control

Product Description

The INHECO Multi TEC Control (MTC) is a compact plug & play temperature and RPM controller for the use with INHECO's CPAC, HeatPAC, Heated Lid and temperature controlled shaking devices. The high accuracy controller includes six device connector slots, a touch screen, a wide range power supply for worldwide use, an USB interface, a rugged housing and a RPM controller for shaking operations.

Six different CPAC, HeatPAC, Heated Lid and Shaker devices can be controlled simultaneously and independently. The MTC can be individually equipped with controller slots for CPAC/HeatPAC devices as well as with controller slots for temperature controlled shakers. The device slots can be exchanged easily, giving maximum flexibility. The MTC can be either operated manually using the touch screen, or through an USB interface. The soft- and firmware of the controller allows programming of complex temperature and shaking sequences.

Application Areas

The MTC is mostly used together with the principal INHECO heating/cooling/shaking units in/on robotic platforms and systems in Lab Automation. The purpose is to form temperature controlled areas with direct and easy access by robotic grippers and pipetting heads. The MTC is designed for the use in fundamental research, drug discovery, clinical research, diagnostics and other Life Science applications. The MTC is also prepared for use in customer IVD applications.

The MTC is used with the following INHECO heating/cooling units or accessories:

- CPAC Microplate
- CPAC Ultraflat
- HeatPAC
- Variomag Teleshake 95
- Variomag Thermoshake
- Heated Lid

For further information on these units, see the relevant data sheets, which can be downloaded from our website.

Variants

The INHECO MTC is specially created for multiple position TEC control. For single position TEC control units we refer to the datasheet Single TEC Control (STC), which can be downloaded from our website. The MTC has to be equipped with slot module boards for the connection with the heating/cooling/shaking units. Two types are available, 12V (cover plate is blue) and 24V (cover plate is black).



The plug of the connected unit should have the same colour sleeve as the slot module, which is indicated next to the slot number. Slot modules can be easily exchanged.



8900030: INHECO MTC



8900030: Backside with two 12V slots installed

Product	Colour	Article No.	INHECO heating/cooling/shaking units
Slot 12V	●	2400128	CPAC
Slot 24V	●	2400125	CPAC HT 2-TEC, Teleshake 95, Thermoshake, HeatPAC, Heated Lid



2400128: Slot Module 12V

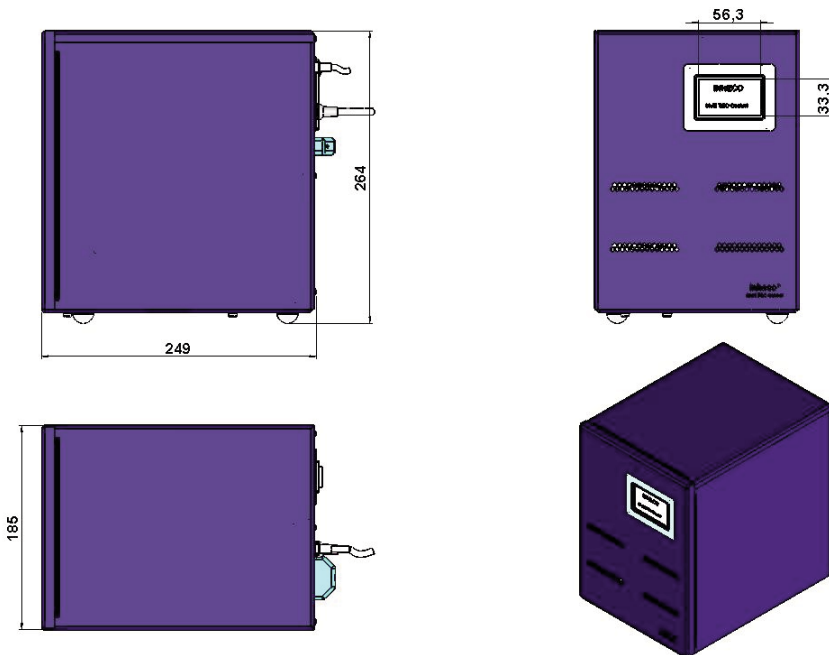
Main Specifications

Specification	Article #: 8900030
Input	100-240Vac, 50/60 Hz
Output	6x 24Vdc, 4,5A
Accuracy	±0,5°C
Output CPAC Slot	12-14V, 4,5A
Output Shaker Slot	24V 4,5A
Ambient temperature at max. power	15°C to 32°C
Interface	USB
Dimensions	185 x 249 x 264 mm
IWeight	5,3 kg



Simultaneous control of up to six different heating/cooling/shaking devices (in this case one CPAC Microplate, one CPAC Microplate with IMP, one Teleshake 95, one HeatPAC, one Thermoshake and one CPAC Ultraflat)

Drawings



8900030: Easy access to device slots

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.



7901000: INHECO Measurement Plate

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

