

## Control Units



# TEC Controllers

Multi TEC Control & Single TEC Control

# TEC Control Units

Plug & play control unit required for heating/cooling & shaking devices

## Multi TEC Control & Single TEC Control

### Product description

The Multi TEC Control (MTC), the MTC Compact and the Single TEC Control (STC) are plug & play temperature and shaking frequency controllers for use with the following products: CPAC, HeatPAC, Heated Lid, Thermoshake and Teleshake 95. The MTC & STC include a touch screen, a wide range power supply for worldwide use and a USB interface for easy robotic integration.

They can be either operated manually by using the touch screen (e.g. for testing), or through a USB interface in automated systems. The soft- and firmware of the controller allows for programming of complex temperature and shaking sequences. The MTC compact is designed without a touchscreen to minimize its size for automation projects with limited space. The control units come with a DLL and a firmware command set for seamless integration into liquid handling workstations.



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

### Application areas

The MTC/STC/MTC Compact are used to power and control INHECO's heating/cooling/shaking units in automated liquid handling systems. The MTC/STC/MTC Compact are designed for use in customer IVD applications.

### Variants

3 variants are available, which differ mainly in the number of devices that can be controlled. The MTC and MTC Compact control up to 6 different units (e.g. CPAC, HeatPAC, Heated Lid and Shakers) simultaneously and independently. The STC is used to control one single unit.

Product	Part No.	Number of connectable devices	Dimensions W x D x H (mm)
MTC Compact	8900029	up to 6 individually	300 x 260 x 100
Multi TEC Control	8900030	up to 6 individually	185 x 249 x 264
Single TEC Control	8900031	1	147 x 224 x 177



MTC Compact, 8900029

### Slot Modules

The MTC/STC/MTC Compact have to be equipped with color coded slot modules for the connection with the corresponding heating/cooling/shaking units. Three types are available: blue, black and yellow.

The slot module color/type is indicated next to the slot module, as shown on the righthand picture. The connected thermoelectric unit must have the same colored plug sleeve. Slot modules can easily be installed and exchanged by the user. Pre-installation by INHECO can also be ordered free of charge.



Multi TEC Control (MTC) with three inserted slot modules and two connected devices with corresponding color

Product	Part No.	Slot used for	Pre-install Part No.
Blue Slot Module	2400128	CPAC	2400128-9
Black Slot Module	2400125	CPAC HT 2-TEC, Teleshake 95, Thermoshake, HeatPAC, Heated Lid, CPLC HT 2-TEC	2400125-9
Yellow Slot Module	2400211	Thermoshake AC, Teleshake 95 AC, Teleshake AC	2400211-9



- MTC / STC controlled devices:
- Thermoshake, CPAC Ultraflat
  - HeatPAC, Teleshake 95
  - CPAC Microplate, IMP

## Main specifications

Specifications	8900029 / 8900030 MTC Compact / MTC	8900031 STC
Individually controlled devices	1 - 6	1
Weight	5.3 kg	3.3 kg
Input	100-240 V AC 50/60 Hz	100-240 V AC 50/60 Hz
Output blue Slot Module 2400128	12-14 V DC, 4.5 A	12-14 V DC, 4.5 A
Output black Slot Module 2400125	24 V, 4.5 A	24 V, 4.5 A
Output yellow Slot Module 2400211	24 V, 4.5 A	24 V, 4.5 A
Temperature accuracy	±0.5 K	±0.5 K
Ambient temperature at max. power	15 °C to 32 °C	15 °C to 32 °C
Interface	USB (1.1 or 2.0)	USB (1.1 or 2.0)



Multi TEC Control:  
Easy access to install  
Slot Modules, 8900030

## 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

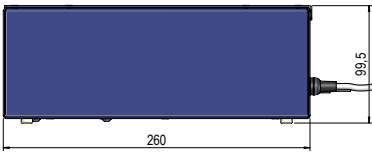


INHECO Measurement Plate (IMP), 7901000

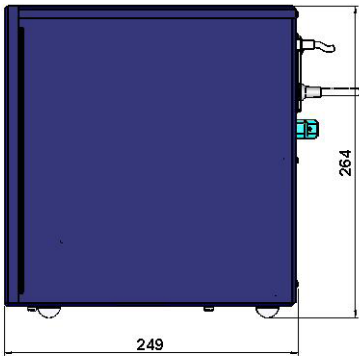
Visit us on [www.inheco.com](http://www.inheco.com)

### Drawings

*MTC Compact, 8900029*



*Multi TEC Control (MTC), 8900030*



*Single TEC Control (STC), 8900031*

