

# **User and Installation Manual**





# **HeatPAC**

Part No.: 7900046

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This manual and the information herein have been assembled with due diligence. **INHECO GmbH** does not assume liability for any misprints or cases of damage resulting from misprints in this manual. If there are any uncertainties, please feel free to contact sales@inheco.com. → How to contact INHECO, page 5.

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# **1** IMPORTANT NOTES

#### 1.1. General Information



Read the user instructions completely. The manual explains how to operate and handle the HeatPAC (7900046). In case manual instructions are not followed, injury or product damage cannot be excluded.

Missing or insufficient knowledge of the manual leads to loss of liability against INHECO GmbH.

This manual is part of the HeatPAC and must be retained until the device is disposed of and must be passed on with the HeatPAC when the device is taken over by a new user.

The HeatPAC meets the acknowledged rules of technology and comply with today's standards.

Manual instructions must be followed in order to ensure safe handling of the device.

Security-related warnings in this manual are classified into three hazard levels:

- The signal word WARNING indicates hazards which without precautionary measures can result in serious injury or even death.
- The signal word CAUTION indicates hazards which without precautionary measures can result in minor to moderate injuries
- The signal word NOTE stands for general precautionary measures that are to be observed to avoid damaging the device when using it.
- The signal word NOTICE stands for necessary measures that should be followed to avoid damaging the device when using it.

Contact INHECO in case there are any uncertainties of how to operate or how to handle the HeatPAC.

Your opinion about this manual provides us with valuable insights on how we can improve this document. Please do not hesitate to direct your comments to sales@inheco.com,  $\rightarrow$  How to contact INHECO, page 5.

### 1.2. Explanation of symbols

Symbol	Explanation
$\wedge$	Potential danger of serious injury or death $ ightarrow$
<u> </u>	signal word WARNINg or CAUTION indicate the severity.
	Caution: hot surface
•	Bullet points indicates an instruction.
-	Hyphens refer to enumerations.
$\rightarrow$	indicates refer to and are mostly an active link

### 1.3. Explanation of Abbreviations

The following	g items are used in this document
°C	Degree Celsius
Hz	Hertz [1/s]
K	Kelvin
kg	Kilogram
rhu	relative humidity
TEC	Thermo- Electric- Cooler (Thermoelectric Module, Peltier Element)
Vdc	Voltage direct current
Adc	Ampere direct current
W	Watt
IVD	In Vitro Diagnostic
FDA	Food and Drug Administration
ALP	Automated Labware Positioner from Beckman Coulter
MTC	Multi TEC Control controls up to 6 INHECO devices individually
STC	Single TEC Control controls 1 INHECO device
Offset	The difference between the set temperature and actual value once the temperature is stable.
PT100	PT100 is a Resistive-Temperature-Detector (RTD). This sensor increases its resistance with increasing temperature.
Calibration	Calibration is the validation of specific measurement techniques and equipment.  At the simplest level, calibration is a comparison between measurements - one of known magnitude or correctness - made or set with one device and another measurement made in as similar a way as possible with a second device.

### 1.4. Warranty

The warranty period starts on the date of shipment. Any damage caused by operating the HeatPAC outside the specifications and guidelines leads to the loss of warranty. Broken seals on INHECO lead to the loss of warranty as well.

INHECO accepts only devices for inspection or repair which were not exposed to human or animal blood or fluids, chemical or biological fluids except of device which have been effectively decontaminated according to corresponding decontamination methods. → Decontamination and Cleaning, page 20ff..

Devices exposed to Biosafety level 3 and 4 Environments or radioactive or radiation materials are not accepted by INHECO for return.

### 1.5. How to contact INHECO

INHECO GmbH	
Address	Fraunhoferstr. 11
	82152 Martinsried
	Germany
Telephone - Sales	+49 89 899593 120
Telephone - Techhotline	+49 89 899593 121
Fax	+49 89 899593 149
E-Mail - Sales	sales@inheco.com
E-Mail - Technical -Hotline	techhotline@inheco.com
Website	www.inheco.com

Technical Support & Trouble Shooting Instructions:

http://www.inheco.com/service/technical-support.html

# 2 PRODUCT DESCRIPTION

#### 2.1. Intended Use

The INHECO HeatPAC is a very compact unit with super low height of only 40 mm at disposable contact surface. This low height makes it ideal for liquid handling workstations with limited space between the pipetting head and the heating block, eliminating the need for cut-outs and enabling the use of deepwell disposables. Its footprint is hardly bigger than a microplate, most ANSI/SLAS (formerly SBS) listed disposables can be fitted. The system is also suited for the heating of tubes and other carrier formats. Cable routings are flexible, allowing the cable either to exit downwards, sideways or lengthways. The unit is a ready-to-install high performance resistance heater device, CE and UL certified.

A wide range of thermal adapter plates (inserts, nests) to match the required disposable are available. Adapter plates and positioner can be easily taken down for cleaning, or changed to another configuration within minutes.

The HeatPAC device is mostly used on robotic platforms and systems in Lab Automation.

The HeatPAC can be operated with two types of precise temperature controllers with integrated power supply (MTC or STC). The units are plug-and-play high performance heating devices with CE and UL certification.

The HeatPAC is designed specifically for use in Life Science and In Vitro Diagnostics. It is prepared for easy integration into IVD applications, but the final IVD validation has to be performed by the first marketer (IVD application).

When using the HeatPAC in a Biosafety Laboratory Environment, the user is responsible for labeling the devices according to the WHO Laboratory Biosafety Manual (ISBN 92 4154650 6) and for operating the devices according to this Biosafety Manual.

The HeatPAC must be used exclusively by laboratory professionals trained in laboratory techniques with labautomation systems and having studied the instructions for use of this instrument as well as the instructions of the workstation the device is used in.

### 2.2. Scope of Delivery

Before initial operation, make sure that the shipment of your unit and its scope of supply is complete and no parts are damaged.

In case of parcel or product damages, make photos of the damaged boxes and products and email them to **techhotline@inheco.com** immediately. Transportation damages must be reported to INHECO within 7 days of delivery. The following components should be included in each shipment:

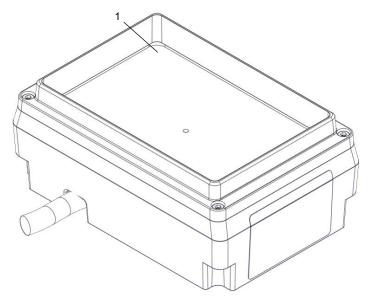


Fig.1: Components

(1) HeatPAC incl. Sub-D-Connector Cable and frame for PCR Adapter

### 2.3. Functional Elements

The functional element of the HeatPAC is the temperature controlled contact surface. The device has to be controlled via a TEC Control Unit ( MTC or a STC).

#### 2.4. Labels

The identification label with part number and serial number also contains important technical indications. The electrical specification on the label must meet your local situation. The label is placed on the front of the HeatPAC. The identification label must not be removed. If it has become illegible or falls off, it has to be replaced by a new identification label. New labels can be ordered at INHECO. In case the label is missing and you do not know the part number and serial number, they can also be read out with the software (MTC/STC Demo Tool) which can be downloaded from our login section on **www.inheco.com**. → Trouble Shooting and Support, page 19f..



Fig.2: Product labels on the device

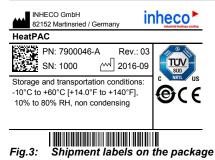


Fig.3:



Fig.4: Label on instrument

### 2.5. Technical Data HeatPAC

Technical Data incl. Dimensions		
Input voltage / max. current	24Vdc / 4.16 A	
Temperature range	ambient to + 135°C	
	[ambient to +275°F]	
Temperature range ambient	15°C to +32°C	
	[+59°F to 89.6°F]	
Sensor type	two PT100	
Outer dimensions for	128 x 89 x 40	
Length x width x height in mm		
Weight incl. cord	approx. 0.86 kg [1.9 lbs]	
Heating capacity	100 Watt	

Environmental Conditions		
Tolerable relative humidity	Operation	30-80% relative (non condensing)
	Transportation and storage	10-80% relative (non condensing)
Temperature	Operation	+15°C to +32°C [+59°F to 90°F]
	Transportation and	-10°C to + 60°C (+14°F to 140°F),
	storage	non condensing

# 3 SAFETY INSTRUCTIONS

### 3.1. Products-specific Risks



### **WARNING**

Follow the safety instructions given below in order to avoid danger for user and device.

#### General

- The main power switch of the TEC Control Unit (STC / MTC) must always be accessible.
- The HeatPAC hardly requires any maintenance, except Cleaning → page 20
- The HeatPAC has to be placed in an upright position.
- Do not exceed minimum or maximum ambient temperature and humidity conditions during operation or storage of the HeatPAC → Technical Data, page 9
- The HeatPAC must not be used in environments with risk of explosion
- The HeatPAC is for indoor use only.



#### **Burning Hazard:**

The HeatPAC can burn your skin. Even after switching off the TEC Control Unit, the
connected device can still be hot and could seriously burn your skin as the material's
temperature can reach up to +135°C [+275°F]. It takes a while to cool down after the
device has been used.



#### **Electrical Shock:**

- The HeatPAC must not be used if the device itself or the power cable shows visible signs of damage.
- You can suffer an electric shock and injuries, if the HeatPAC is not connected properly
  or if you do not disconnect the device from the TEC Control Unit outlet before opening
  the housing.
- Never connect or remove the power plug with wet hands.
- Original power cable provided by INHECO has to be used to guarantee safe and proper operation.
- The wall power outlet must have a ground earth connection (Safety Class 1).
- Where an ungrounded receptacle is encountered, a qualified electrician must replace it with a properly (PE) grounded receptacle in accordance with the local electrical code.
- Make sure that the electrical specification on the identification label at the side panel meets your local situation. → Labels, page 8.

### **Biosafety Laboratory Environment**

 When using the devices in a Biosafety Laboratory Environment, the user is responsible for labeling it according to the WHO Laboratory Biosafety Manual (ISBN 92 4154650 6) and for operating the devices in accordance to this WHO Laboratory Biosafety Manual.

### 3.2. Technical Alterations

- Do not alter the product. Any modification or change which is not approved by INHECO leads to the loss of warranty. Broken seals on INHECO devices lead to the loss of warranty as well.
- Use only original parts provided by INHECO. Parts provided by other suppliers can impair the functionality of the device.
- Damages due to the use of non-original parts are excluded from INHECO's liability.

### 3.3. Malfunctions

- In case of a malfunction, switch off and disconnect the device immediately. Make sure to inform the authorized person in charge.
- Make sure that the malfunctioning device is not accidentally re-installed and used before the malfunction is effectively eliminated. → Trouble Shooting and Support, page 19.

# 4 HARDWARE INSTALLATION

### 4.1. Scope of Supply

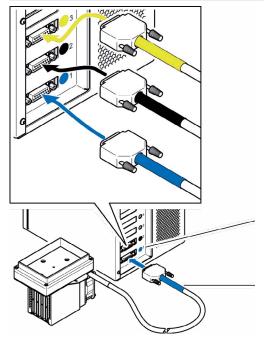
Before initial operation, make sure that the shipment of your unit is complete and neither packaging nor parts are damaged  $\rightarrow$  Scope of Supply, chapter 2.2.

### 4.2. Initial Operation

### 4.2.1. How to connect device to the MTC / STC

In order to connect an INHECO heating/cooling/shaking device, the TEC Control Unit has to be equipped with the corresponding Slot Module. There are blue, black, and red Slot Modules available. The following table shows the appropriate Slot Module for each heating/cooling/shaking device.

Product	Color	Article No.	Heating/cooling/shaking Unit
Blue Slot Module	blue	2400128	CPAC
Black Slot Module	black	2400125	CPAC HT 2-Tec, HeatPAC, Heated Lid, Teleshake 95, Thermoshake,
Yellow Slot Module	yellow	2400211	Thermoshake AC, Thermoshake AC 180, Teleshake AC, Teleshake 95 AC



For clear identification, all Slot Modules and connectors are marked in blue, black or red.

When connecting a new device, the color code has to be strictly respected.

In case of wrong connection, interaction will not be possible and an error message will be issued

The color coding of the Slot Modules is visible from the outside through small round windows.

At the connectors, the sleeve must be marked in the same color as the Slot Module.

Fig.5: Connecting a heating/cooling/shaking device (image shows CPAC)

- Disconnect the power cord of the TEC Control Unit.
- Connect the heating/cooling/shaking device to the appropriate Slot Module and lock the connector. The Heated Lid must be connected to a Black Slot Module.
- Connect the power cord of the TEC Control Unit.
- Switch the TEC Control Unit on: The touch-screen display of the TEC Control Unit shows the name (or abbreviation) of the currently connected device. When multiple devices are installed, you can switch between the devices by touching the arrow left or arrow right button of the touch screen.

#### NOTE

Never plug in our plug out a device while the Controller is running. Always turn off the Controller before disconnecting or connecting a device.

#### 4.3. Labware Use

Each labware needs an adapter to ensure uniform heat exchange. INHECO offers several standard adapters (  $\rightarrow$  chapter 8) and also to design and manufacture customized adapter.

#### NOTICE

Optimized temperature settings require a temperature off-set value adjusted to the thermal characteristics of the disposable.  $\rightarrow$  Manual MTC/STC for further details.

#### NOTE

As the temperature can be selected up to +135°C [+275°F] check whether your labware is suited for the selected temperature. If the temperature is too high for the material of your labware, the labware might get squashy or even melt.

### 4.4. Installation of Adapter Plates

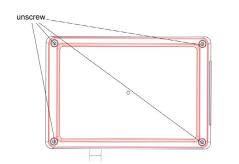
Custom-fit adapters are required for all tubes, reservoirs and plates without flat bottoms, to ensure temperature transfer into the disposable/assay and to ensure safe positioning as well as easy robotic handling of the plate.

Visit **www.inheco.com** to find the adapter which fits your tube, reservoir or plate. In case you do not find your disposable on the list of adapters, ask **sales@inheco.com** for a custom design.

### 4.4.1. Installation of PCR Adapter

The mounting frame for PCR Adapter is already fixed on the HeatPAC when it is purchased directly from INHECO. A different set up may be delivered if the HeatPAC is ordered from your workstation provider. In this case the PCR Adapter or another adapter might already be pre-installed.

 unscrew the 4 screws at the edge for assembling the PCR Adapter (has to be ordered separately, → chapter 8)



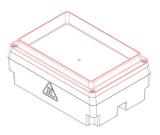


Fig.6: Mounting frame (red) screwed to HeatPAC device



Fig.7: · Unscrew the 4 screws at the corner and remove mounting frame

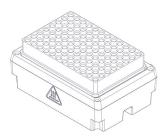


Fig.8: · Place the PCR Adapter without frame

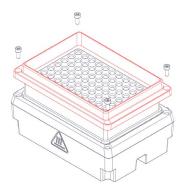


Fig.9: · Assemble PCR Adapter with mounting frame (to enclose the PCR Adapter) and 4 screws and tighten the four screws at the corner finger tight (respectively with 0,25Nm)

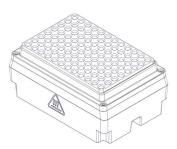


Fig.10: PCR-Adapter placed on HeatPAC with mounting frame

### **NOTICE**

Each different labware might need a different fixation as only this is the way to ensure the correct position.

### 4.4.2. Installation of Flat Bottom Adapter

The Flat Bottom Adapter is delivered with a frame which has to be fixed on top of the HeatPAC with two screws at the edge and the adapter plate itself has to be fixed with one screw in the middle.

### **NOTICE**

If another Adapter or the PCR mounting frame is pre-assembled please disassemble this first.



Fig.11: Unscrew the 4 screws at the corner and remove mounting frame



Fig.12: · Assemble the outer frame of flat bottom adapter with 2 screws



Fig.13: · Assemble the plate of flat bottom adapter with 1 screw in the middle

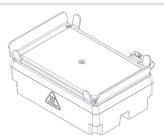


Fig.14: Assembled flat bottom adapter

### 4.4.3. Installation of other Adapter

The other adapter (excluding PCR-Adapter and Flat Bottom Adapter) do not need a frame they are just fixed with one screw in the hole in the middle of the HeatPAC.

### **NOTICE**

If another Adapter is pre-assembled please disassemble this adapter first.



Fig.15: · Unscrew the 4 screws at the corner and remove mounting frame

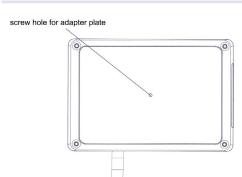


Fig.16: · Screw hole for other adapter

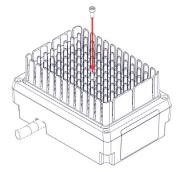


Fig.17: · Assemble adapter (here DWP Adapter)

### 4.5. Mechanical Integration

The HeatPAC is usually integrated into liquid handling workstations. The way of fixation depends on the hardware provided by the automation platform manufacturer. When the HeatPAC is placed on a bench top, it must be fixed to the ground with four M4 screws and holes for positioning pins. The mounting surface must be firm and even.

Drilling schematic for secure mounting of the HeatPAC on a working table is shown in the following figure:

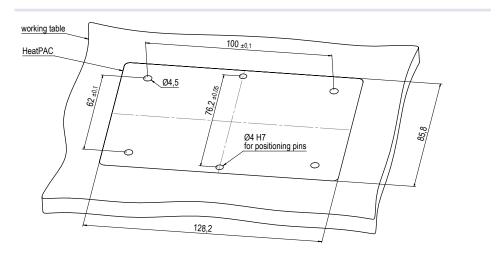


Fig.18: Drilling Scheme

Please contact INHECO for further information how to place the device onto the working table to prevent damage from the device or/and to assure that the HeatPACs is working with the given specifications.

# 5 SOFTWARE INSTALLATION

INHECO offers a software called Demo Tool to provide limited functional control (also possible via touchscreen of the MTC/STC) and the opportunity to send manually entered firmware commands to the devices.

We recommend to contact your workstation provider for integration (including software integration) of the MTC/STC with devices into your workstation.

# 6 DAILY USAGE

The INHECO devices can be operated by touch-screen at the front panel of the MTC/STC, by the Demo Tool software delivered by INHECO or by the software of your liquid handling workstation. The INHECO Demo Tool software and the touch-screen allow programming basic temperature and shaking sequences. More complex control sequences can be performed with the software of your robotic platform provider or if you write your own software based on our Firmware Command Set and DLL.

For more information consult the following documents:

- for touch-screen operation: MTC/STC Manual
- for software operation: Demo Tool Manual
- for firmware commands: MTC/STC Firmware Command Set

These documents can be downloaded from INHECO' login section on **www.inheco. com** .

### 6.1. Safety Instructions for Operation

#### **NOTE**

Do not operate the HeatPac in an ambient temperature of more than 32°C (90°F). Otherwise the devices may not work properly or may even get damaged.



#### WARNING

The HeatPAC can burn your skin. Even after switching off the TEC Control Unit, the connected device can still be hot and could seriously burn your skin as the material's temperature can reach up to +135°C [+275°F]. It takes a while to cool down after the device has been used.

#### **NOTE**

As the temperature can be selected up to +135°C [+275°F] check whether your labware is suited for the selected temperature. If the temperature is too high for the material of your labware, the labware might get squashy or even melt.

## 7 MAINTENANCE

#### 7.1. Software updates

For updates of the Demo Tool Software, contact:  $sales@inheco.com \rightarrow How to contact INHECO, page 5.$ 

### 7.2. Trouble-Shooting & Support

In case of an operation failure follow the trouble-shooting instructions of this chapter. INHECO needs the below mentioned information to help you to troubleshooting the reason for the operation failure.

Please provide the following when contacting INHECO for support:

- INHECO product number of the device (shown on device label)
- INHECO product name of the device (shown on device label)
- INHECO serial number of the device (shown on device label or via software)
- Detailed error description
- Error code report (generated with software "MTC/STC Demo Tool")
- Information about setup of device:
  - o integrated in workstation
  - o controlled by MTC or STC (incl. part number and serial number)
  - o controlled by workstation software or INHECO Software

Serial numbers are shown on the device labels of the TEC Control Unit and connected device, but you can also read them out by using INHECO's software "MTC/STC Demo Tool" (Demo Tool). The Demo Tool can also be used to generate a report of error codes for the TEC Control Unit and all connected device.

Based on the above information, INHECO's Techhotline decides about the requirement of a return. → Return for Repair only with RMA Number, page 21.

#### 7.2.1. Installation of the Software "MTC/STC Demo Tool"

The Demo Tool can be downloaded from INHECO' login section on **www.inheco.com**. In this section you will also find the Demo Tool Manual with detailed instructions of the software.

Download the MTC/STC Demo Tool and the DLL file into the same folder. Both files must be saved into the same folder, otherwise it is impossible to run the Demo Tool.

### 7.2.2. Serial Numbers via Demo Tool

Start the Demo Tool and click on the button "find MTC" (or "find STC"). The software scans all Com-Ports and subsequently displays the connected MTC/STC as well as connected device.

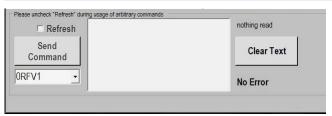


Fig.19: Command section of User Interface

- · Make sure the Refresh Box is unchecked (as in fig. 19)
- Enter your command into the command field. (overwrite the last command written in this field e.g. 0RFV1)
- · Select button "Send Command"
- Enter following Commands:

for MTC/STC Mainboard serial number: 0RFV2

for Slot Module serial number: xRFV2 (x=slotID: 1-6)
 for external connected device: RSNx (x=slotID: 1-6)

### 7.2.3. Error Code Report generated with "MTC/STC Demo Tool"

- · Start the Demo Tool
- Click on the button "find MTC" (or "find STC").
   The software scans all Com-Ports and subsequently displays the connected MTC/STC as well as connected device.
- Click on the button "report error codes".
   An additional window appears in which all error codes are displayed. Email a screenshot of this window along with all other required information to techhotline@inheco.com. If screenshot does not show all information you want to report to INHECO please send the full text.

### 7.3. Cleaning



#### **CAUTION**

Before **cleaning** the HeatPAC, disconnect the power and make sure that the temperature at the heating plate is below +50°C.

The contact surface should be cleaned regularly to ensure optimum heat transfer into the disposable and assay. Always clean the contact surface after a spillage. Use a cloth with a 50:50 water / isopropanol solution and make sure that no deposits are left on the surface. Liquids must not enter into the unit.

Do not use aggressive cleaning fluids such as acetone, or abrasive cleaners.

Contact INHECO in case you prefer other cleaning liquids or methods which may be harmful for the material of the devices.

#### 7.4. Decontamination

Decontamination is required before return of a device to INHECO in case it has been exposed to human or animal blood/fluid/tissue or has been exposed to biological or chemical.

The surface decontamination should include a wipe-down of the housing surface with a decontaminating solution. A solution of 70% alcohol, bleach (5%-12%) or Microside SQ can be used where effective for the respective target material (organism). Otherwise the appropriate decontamination method and solution to eliminate any risk must be applied. Fumigation (e.g. with formaldehyde or ethylene oxide gas) might be required if decontamination of inaccessible areas is needed but ensure to take precautions when using toxic gases or fluids for decontamination.

#### NOTICE

Contact INHECO if you are not sure whether the used decontamination method or solution could damage the device or its surface material.

#### NOTE

In case of **decontamination with gas**, make sure that no liquid enters inside the device because the devices is still powered on. As ventilation is needed for an effective decontamination with gas.

#### 7.5. Calibration / Verification

For proper performance of the HeatPAC, it is recommended to verify the thermal performance at least once a year. Depending on the application, shorter verification intervals may be required. INHECO recommends to use the INHECO Measurement Plate (IMP) to perform the verification.

Please contact **techhotline@inheco.com** in case of performance deviations from set values.

#### **NOTICE**

Please note that the set Heater Offset has an impact on the temperature verification of the device. Make sure that the Heater Offset is considered when performing the temperature verification.

### 7.6. Return for Repair only with RMA Number

INHECO device must be repaired by INHECO only. Parts must not be exchanged by the user. Exchange of parts or broken seals can lead to the loss of warranty. Spare Parts must be ordered from INHECO.

INHECO only accepts decontaminated device for repair, firmware update, maintenance, etc. → Decontamination and Cleaning, page 20.

Device which were exposed to biosafety level 3 and 4 environments are not accepted by INHECO for return.

Ask techhotline@inheco.com or visit www.inheco.com/service/returns-rma.html for the return procedure before you return a device to INHECO. Do not return any device without INHECO's RMA number. INHECO's RMA number must be shown on the outside of the return package. Returns without RMA number are not being processed by INHECO.

Device should be returned in the original packaging.

### 7.7. Transportation and Storage

It is recommended to keep the original packaging. INHECO device should be shipped and stored in their original packaging . Adhere to required environmental conditions for transportation and storage  $\rightarrow$  Technical Data, page 9.

### 7.8. Shut Down and Disposal

The Device has to be disposed of in accordance with environmental and biosafety directives. You have to arrange for correct electric waste disposal following actual safety regulations for your country.

All INHECO devices are RoHS and WEEE compliant.

# 8 ACCESSORIES

### 8.1. Multi TEC Control (MTC) / Single TEC Control (STC)

Product Name	Description	Part Number
Multi TEC Control	controls up to 6 INHECO devices individually	8900030
Single TEC Control	controls 1 INHECO device	8900031

### 8.2. Slot Modules

Product Name	Description	Part Number
Black Slot Module	connects CPAC HT 2-TEC, HeatPAC, Teleshake	2400125
	95, Thermoshake, Heated Lid with MTC/STC	

### 8.3. Thermal Adapter for Temperature Transfer.

All standard adapter can be downloaded from INHECO' webpage **www.inheco.com** or requested from sales@inheco.com.

### 8.4. Miscellaneous

Product Name	Description	Part Number
INHECO Measurement Plate (IMP)	verification of temperature and	7901000
	shaking performance	
Heated Lid	heating up to +135°C	8900033

# 9 APPENDIX



# EC - Declaration of Conformity

in accordance with Directive 93/68/EEC (CE), 2014/30/EU (EMC), 2014/35/EU (LVD) and 2011/65/EU (RoHS II)

Product: Single TEC Control (STC), Single TEC Control Compact (STCC),

Multi TEC Control (MTC), Multi TEC Control Compact (MTCC)

(with Slots 2400125+2400128+2400211+2400205)

connected with corresponding devices:

CPAC Microplate, CPAC Ultraflat, Thermoshake or Teleshake, HeatPAC, Heated Lid

Part No: 8900029, 8900030, 8900031, 8900036, 8900033

7000163, 7000168, 7000179, 7000190, 7000166, 7100136, 7100146, 7100144, 7100160,

7100161, 7900046, 7100150, 7100151

Standards (Safety): EN 61010-1:2010 + A1:2019 + A1:2019/AC:2019

EN 61010-2-010:2014 EN 61010-2-101:2017

Standards (EMC): EN 55011:2016

EN 61326-1:2013 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-4-2:2009

EN 61000-4-3:2006 A1:2009 A2: 2010

EN 61000-4-4.2004 A1.2010

EN 61000-4-5: 2006 EN 61000-4-6:2009 EN 61000-4-8:2010 EN 61000-4-11:2004

This product complies with the essential requirements of the Low Voltage Directive (LVD) and Electromagnetic Compatibility (EMC) directive, when used for its intended use.

International Standards For international standards please see UL certificate U8 046515 0033 Rev.00,

U8 046515 0034 Rev.00 and U8 046515 0037 Rev. 01

Download UL certificat: http://www.inheco.com/service/certificates.html

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Martinsried, May 2020