



Lab Automation
Product Flyer 2014

Lab Automation

Thermal Cycling, heating, cooling, shaking, incubation & verification at its best.



INHECO offers thermal cycling / heating / cooling / shaking solutions for various plates or tubes. Nearly 100 adapters are available for temperature transfer into the wells & tubes. They are listed on our website. We also customize adapters.

Thermal Cycling

The world's first thermal cycler dedicated for use on deck of robotic workstations.

Product	Heating Rate Average	Cooling Rate Average	Uniformity	Temperature Range	Dimensions W x D x H (mm)
ODTC® 96	4.4°C/sec	2.2°C/sec	±0.15°C	+4°C to 99°C	155 x 248 x 124



8100100 ODTC® 96

Heating

High temperature heating in compact dimensions.

Product	Part No.	Temperature range	Dimensions W x D x H (mm)
HeatPAC	7900046	ambient to 135°C	128 x 89 x 40
Heated Lid	8900033	ambient to 135°C	134 x 91 x 19



7900046 HeatPAC with 7900016 Flat Bottom Adapter & Positioning frame

Heating & Cooling

The CPAC HT 2-TEC devices are optimized for high temperature and temp. cycling, the basic CPAC devices are designed to maintain a constant and moderate temperature.

Product	Part No.	Temp. range	Temp. cycling	Robotic installation
CPAC Ultraflat HT 2-TEC	7000166	+4°C to 110°C	Yes	on deck
CPAC Ultraflat	7000190	+4°C to 70°C	No	on deck
CPAC Microplate HT 2-TEC ¹⁾	7000163	+4°C to 110°C	Yes	inside deck or ALP
CPAC Microplate	7000179	+4°C to 70°C	No	inside deck or ALP



7000166 CPAC Ultraflat HT 2-TEC

Heating, Cooling & Shaking

Optimal shaking performance for tubes & plates with 1-384 wells.

Product	Part No.	Dimensions W x D x H (mm)	RPM	Temperature range
Thermoshake	7100146	104 x 147 x 118	100 - 2.000	+4°C to 70°C
Thermoshake RM ¹⁾	7100144	104 x 147 x 116	100 - 2.000	+4°C to 70°C
Teleshake 95 ²⁾	7100136	103 x 146 x 55	100 - 2.000	ambient to 125°C



7100136 Teleshake 95

1) For Tecan Roma gripper
2) no cooling function

Incubation

Heating ramp is up to 4 times faster than heat-up time of conventional incubators.

Product	Part No.	Temperature range	RPM	Amplitude
Incubator Shaker DWP	7300009	ambient to +80°C	400 - 1.800	0 - 3 mm
Incubator Shaker MP	7300013	ambient to +80°C	400 - 1.800	0- 3 mm
Incubator DWP	7300006	ambient to +80°C	-	-
Incubator MP	7300003	ambient to +80°C	-	-



mixed incubator stack with:
 7300003 Incubator MP
 7300013 Incubator Shaker MP
 7300006 Incubator DWP
 7300009 Incubator Shaker DWP

Shaking

Compact shakers with control modules for standard ANSI/ SLAS (formerly SBS) plates / tubes.

Product	PartNo.	Tubes Wells	RPM	Amplitude	Dimensions W x D x H (mm)
Teleshake 230V EU	3800047	1-384	100 - 2.000	2 mm	103 x 146 x 39
Teleshake 115V US	3800048	1-384	100 - 2.000	2 mm	
Teleshake 230V UK	3800049	1-384	100 - 2.000	2 mm	
Teleshake 230V EU	3800063	1-384	100 - 2.000	3 mm	
Teleshake 115V US	3800064	1-384	100 - 2.000	3 mm	
Teleshake 100V JP	3800050	1-384	100 - 2.000	2 mm	
Teleshake MTC / STC ¹⁾	7100137	1-384	100 - 2.000	2 mm ²⁾	103 x 145 x 56
Teleshake 1536-6, 230V EU	3800069	1536	4.000 - 8.500	0.1 to 1.0 mm	
Teleshake 1536-6, 230V UK	3800070				
Teleshake 1536-6, 115V US	3800071				
Teleshake 1536-8, 230V EU	3800072				
Teleshake 1536-8, 230V UK	3800073				
Teleshake 1536-8, 115V US	3800074				
Teleshake 1536-Lift, 230V EU	3800075				
Teleshake 1536-Lift, 230V UK	3800076				
Teleshake 1536-Lift, 115V US	3800077				
Monoshake 110V	3800080				1-384

Each shaker includes a Control Module except 7100137 and 380080

1) This shaker requires a controller (MTC/STC) and a Slot Module (2400156). MTC/STC and Slot Module are not included.

2) 3 mm amplitude available on request



3800048 Teleshake 110V US



3800074 Teleshake-1536-8

Verification

Verification of heating, cooling, shaking & humidity with INHECO Measurement Plate.

Product	Part No.	Dimension W x D x H (mm)	Weight	Temp. Range
IMP	7901000	86 x 128 x 15	100 g	+4°C to 60°C
IMP Temperature Calibration NIST/DAkks	7901002			
IMP Shaking Calibration NIST/DAkks	7901003			



7901000 INHECO Measurement Plate



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inheco
 HeatPAC
 P/N: 7500044 SN: 18 Index: A
 Input: U: 24Vdc P: 100W
 Imax: 4.16A
 CE

TEC Control Units

Our compact all-in-one controllers include temperature & shaker control. These controllers are required for HeatPAC, Heated Lid, CPAC, Teleshake 95 & Thermoshake.

Product	Part No.	Device Control	Dimensions	Interface
Multi TEC Control	8900030	up to 6	185 x 249 x 264 (mm)	USB
Single TEC Control	8900031	1	147 x 224 x 177 (mm)	USB



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

Slot Modules for TEC Control Units

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, HeatPAC, Heated Lid, Teleshake 95, Thermoshake	2400125-9
Red Slot Module	2400156	Teleshake MTC/STC	2400156-9



8900030 Multi TEC Control (MTC) with inserted slot modules and connected devices with corresponding color.

Adapter Plates

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