

PURA™

PURA 4 / 10 / 14 / 22 / 30



Water baths

Original operating manual

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Legal

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Illustrations in this operating manual are for illustrative purposes and are not necessarily displayed to scale.

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1 Foreword

Congratulations!

You have made an excellent choice.

JULABO would like to thank you for the trust you have placed in our company and products.

This operating manual will help you become acquainted with the use of our units. Read the operating manual carefully. Keep the operating manual handy at all times.

2 About this manual

This manual is intended for the equipment specified on the cover page.

	NOTE Observe the safety instructions! Read the Safety section of this manual before using the equipment for the first time.
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2.1 Original JULABO spare parts

Hassle-free continuous operation and safety also depend on the quality of the spare parts used.

Only original JULABO spare parts guarantee the highest possible quality and safety. Original JULABO spare parts are available directly from JULABO or your specialist dealer.

Please note that JULABO cannot provide a warranty service if non-original JULABO spare parts are used.

2.2 Accessories

JULABO offers a wide range of accessories for the devices. Accessories are not described in this manual.

The complete range of accessories for the devices described in this manual can be found on our website **www.julabo.com**. Use the Search function on the website.

2.3 Warnings

The manual contains warnings to increase safety when using the device. Warnings must always be observed.

A warning sign displayed in signal color precedes the signal word. The signal word, highlighted in color, specifies the severity of the hazard.



DANGER

This signal word designates a danger with a high level of risk which, if it not prevented, will result in death or serious injuries.



WARNING

This signal word designates a danger with a medium level of risk which, if it not prevented, may result in death or serious injuries.



CAUTION

This signal word designates a danger with a low level of risk which, if it not prevented, may result in minor to moderate injuries.



NOTE

This signal word designates a possibly harmful situation. If it is not avoided, the system or objects in its vicinity may be damaged.

2.4 Symbols used

Various symbols are used throughout this manual to aid reading comprehension. This list describes the symbols used.

- ✂ Tools needed for the following approach
- ▶ Prerequisite to be met for the following procedure
- 1. Numbered action steps
- ↪ Interim result for individual action steps
- 👉 Additional note for individual action steps
- ✓ Final result of a procedure
- <> Terms in angle brackets denote control menu
- [] Terms in square brackets denote keys, softkeys and buttons

3 Intended use

This section defines the purpose of the unit so that the operator can operate the unit safely and avoid misuse.

JULABO water baths are intended for controlling the temperature of water. Samples in suitable vessels can be temperature-controlled in the water bath. These devices are not suitable for direct temperature control applications for food, other consumables, or pharmaceutical or other medical products. Do not use bath fluids other than water, as this is not in accordance with the device's intended use.

These devices are not suitable for use in explosive environments.

These devices are not intended for use in living areas. They may cause interference with radio reception.

4 Safety

4.1 General Safety Instructions for the operating company

This section outlines the General Safety Instructions that must be observed by the operator to ensure safe operation.

- The operator is responsible for the qualifications of its operating personnel.
- The operator must ensure that the operating personnel has been instructed in use of the device.
- The device operators must receive regular training about the dangers involved in their work and measures to prevent such dangers.
- The operator must ensure that persons entrusted with the operation, installation and maintenance have read and understood the operating manual.
- The device may only be configured, installed, maintained and repaired by trained personnel with appropriate qualifications.
- If hazardous substances or substances that may become hazardous are used, the device may only be used by personnel who are qualified to handle these substances and the device.
- The operator must ensure that the device is checked for safety and functionality at regular and usage-related intervals.
- The operator must ensure that the mains supply has a low impedance to prevent influencing other devices powered by the same supply.

4.2 General Safety Instructions for the operator

This section outlines the General Safety Instructions that must be observed by the user to ensure safe operation.

- Read the operating manual before initial operation
- The device may only be connected to mains power supply outlets with a protective earth (PE)
- The mains plug is a safe insulator from the power supply grid and must be freely accessible at all times
- Do not start the device if it has a damaged power cable
- Do not operate damaged devices
- Observe the safety symbols on the device
- Do not remove safety symbols
- Have all service and repair work carried out by authorized specialists only
- Protect device from dirt
- Protect device direct UV radiation

4.3 Safety symbols

There are safety symbols included with the device, which should be attached to the device before initial operation.

Safety symbols	Description
	Warning of a danger zone. Note operating manual
	Warning about hot surface
	Read operating manual before switching on

4.4 Safety function

Technical protective devices provide for safe operation. If a safety function is triggered, the operator is alerted with a message on the display and an acoustic signal.

Overheating protection

- Overheating protection triggers at 130°C and switches off the heating element This prevents overheating. A continuous signal tone sounds. An error message appears on the display. A restart is required.

Dry-running protection

- Dry-running protection switches off the heating element automatically if there is too little bath fluid in the bath This prevents overheating. A continuous signal tone sounds. An error message appears on the display. A restart is required.

5 Product description

5.1 Operating and functional elements

The following figure shows the operating and functional elements and their position on the unit.

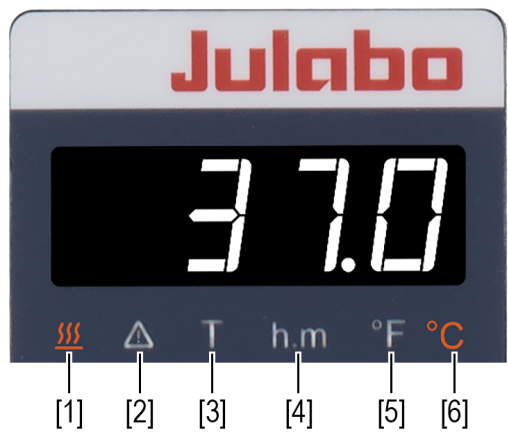


Control and function elements

1	Drain screw (not for PURA 4)
2	Stainless steel bath tank
3	Keypad with display
4	Recessed grip, both sides
5	Mains switch
6	Mains connection

5.1.1 Status LEDs

Status LEDs below the LED display show different operating states and settings.



Status LEDs

1	Heating
2	Warning symbol
3	Timer
4	Duration hour/minute
5	Temperature unit °F
6	Temperature unit °C

5.1.2 Key description

The device is operated using the key panel. This is used to control all menu functions and make entries.

Key	Function
	The [OK] key is used to start a temperature control application or to stop a running temperature control application. Press [OK] to enable a selected function, open a menu option, or confirm a set value.
	Use the arrow keys to select a function or set a value. Short press for single steps, press and hold for fast counting.
	The timer is operated with the [MENU] key.

5.2 Alarm messages

Alarms and warnings are indicated on the display using error codes. Important error code descriptions can be found in the appendix. If you are unable to rectify a fault, contact Technical Service.

Alarm:

In the event of an alarm, the control LED lights up. The temperature control is stopped. At the same time, a continuous acoustic signal sounds and an error code is shown on the display. The acoustic signal can be deactivated by pressing the **[OK]** key. The fault causing the alarm must be remedied. A restart is required.

Warning:

In the event of a warning, the temperature control application is not interrupted. A signal tone is emitted at intervals. The display alternates between the actual temperature and the error code. The acoustic signal can be deactivated by pressing the **[OK]** key. If the underlying cause of the warning is remedied, the signal tone ceases. Depending on the cause, warnings may cease automatically after a period of time, e.g. when the device cools down.

5.3 Technical data

Temperature stability measured in accordance with DIN 12876 with water at 70°C. Performance specifications apply at an ambient temperature of 20°C.

Grouping of the device acc. to CISPR 11:

- The device is an ISM device of group 1, class A, which uses high frequency for internal purposes
- Class A: Use in an industrial electromagnetic environment

In accordance with IEC 61010-1, the device is designed for safe operation under the following ambient conditions:

- Indoor use
- Altitude up to 2000 m above sea level
- Ambient temperature +5 ... +40°C
- Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly down to 50% relative humidity at 40°C
- Mains voltage fluctuations up to ±10% of the nominal voltage permissible if not otherwise specified
- Pollution degree 2

Classified in accordance with DIN 12876-1:

- Class I

Degrees of protection according to EN 60 529:

- Degree of protection IP21

Technical data		PURA 4/10/14/22/30
Working temperature range*	°C	+18 ... +99.9
Overheating protection, fixed setting	°C	130
Temperature stability**	°C	±0.15
Temperature resolution	°C	0.1
Temperature setting		Digital
Temperature control		PID1
Display		LED
Bath tank, basic material		Stainless steel

**with counter-cooling and bath cover (accessories)*

** with bath cover (accessory)*

		PURA 4		PURA 10	
Dimensions (W x D x H)	cm	21 x 35 x 22		31 x 35 x 22	
Bath opening (W x L)	cm	12 x 27		22 x 27	
Bath depth	cm	14		14	
Fill weight (min ... max)	l	0.8 ... 4.5		1.4 ... 9.5	
Weight	kg	4.9		7.0	
Mains connection	V Hz	230 50/60	100-115 50/60	230 50/60	100-115 50/60
Current consumption	A	3	4/5	6	10/11
Heating capacity	kW	0.5	0.38 ... 0.5	1.2	0.9 ... 1.2

		PURA 14		PURA 22	
Dimensions (W x D x H)	cm	42 x 35 x 22		64 x 35 x 26	
Bath opening (W x L)	cm	33 x 27		55 x 27	
Bath depth	cm	14		18	
Fill weight (min ... max)	l	2.0 ... 14.0		3.4 ... 25.5	
Weight	kg	8.5		11.5	
Mains connection	V Hz	230 50/60	100-115 50/60	230 50/60	100-115 50/60
Current consumption	A	8	10/12	9	10/12
Heating capacity	kW	1.8	0.98 ... 1.3	2	0.98 ... 1.3

		PURA 30	
Dimensions (W x D x H)	cm	86 x 35 x 26	
Bath opening (W x L)	cm	77 x 27	
Bath depth	cm	18	
Fill weight (min ... max)	l	4.8 ... 36.0	
Weight	kg	14.5	

Mains connection	V Hz	230 50/60	100-115 50/60		
Current consumption	A	9	10/12		
Heating capacity	kW	2.0	0.98 ... 1.3		

6 Transport and installation

This section describes how to transport the unit safely.

6.1 Transporting the device

This section describes how to transport the device safely.



CAUTION

Risk of crushing by falling device!

A device that is not secured appropriately can fall down during improper transport and cause crushing injuries.

- Secure the device against tipping and falling during transport
- Secure loose parts against falling during transport
- Transport the device upright and with a suitable means of transport
- Wear personal protective equipment

- ▶ The device is switched off and emptied.
- ▶ A suitable transport trolley is available.
- 1. Disconnect the mains cable from the device.
- 2. Lift the device by the recessed grips (PURA 4: on housing) and place it in the center of the transport trolley.
- 👉 See the technical data for weight information.
- 3. Place loose parts for the device, such as cables, on the transport trolley.
- ✓ The device is then ready for transport and can be safely transported to its installation location.

6.2 Install the device at the operating location

This section describes how the device is set up at the installation location.

- ▶ The device has been transported to the operation location.
- ▶ The size and infrastructure of the operation location are suitable for device operation.
- 1. Place the device on a level, smooth, non-flammable surface.
- 👉 Recommended minimum distance of 1 m to other devices, to prevent electromagnetic interference.
- ✓ The device is set up at the operation location.

7 Initial operation

7.1 Connect the device to the power supply

This section describes how to connect the device electrically using the mains plug.

- ▶ The device is at its installation location.
- 1. Insert the device power cable plug into the mains connection socket on the rear of the device.
- 2. Insert the mains cable plug into the power supply socket.
- ✓ The device is connected to the electricity.

7.2 Required water quality

Only water is permitted as a bath fluid. Follow the specifications on water quality to ensure long-term operation without issue.

	NOTE
	Risk of corrosion due to unauthorized bath fluid! Unsuitable bath fluids not approved by JULABO can damage the device. • Only water is permitted as a bath fluid • JULABO recommends a water mixture of 70% softened/descaled water and 30% tap water • Consult JULABO before using a bath fluid other than what is recommended

- Do not use water containing iron Corrosion also possible with stainless steel.
- Do not use water containing chlorine Pitting corrosion possible.
- Do not use distilled or deionised water Corrosion also possible with stainless steel.
- Do not use water containing calcium carbonate A high lime content leads to limescale formation in the bath.

Tip!

To prevent contamination of the bath fluid, we recommend the water bath protective agent Aqua Stabil. The germicidal effect prevents the formation of algae, bacteria, and microorganisms.

- 6 bottles at 100 ml (order no.: 8940006)
- 12 bottles at 100 ml (order no.: 8940012)

7.3 Filling the water bath

Note the fill level limits filling the water bath:

- Maximum fill level: 20 mm below edge of bath
- Minimum fill level: 10 mm above adjustable platform

Note the minimum mark on the adjustable platform.

- ▶ The device is switched off.
- 1. Open the bath cover (accessory).
- 2. Place the samples in the bath.
- 3. Fill the bath with water.
- 👉 Note the minimum fill level and the maximum fill level.
- ✓ The water bath is filled.

8 Operation

8.1 Switch on the unit

This section describes how to switch on the device.

- ▶ The device is connected and ready for operation.
- 1. Switch the device on at the mains switch.
- The display shows OFF.
- ✓ The device is switched on and ready for operation.

8.2 Switch off the unit

This section describes how to switch off the device.

- ▶ The device is switched on.
- 1. Stop a running temperature control application.
- 2. Switch the device off at the mains switch.
- ✓ The device is switched off.

8.3 Start temperature control application

You can start a temperature control application right on the device, or program one using the timer.



CAUTION

Risk of burns from hot steam!

The temperature control process can generate very hot steam. Contact with hot steam can cause burns.

- Do not bend over the open water bath during operation
- Wear protective gloves and glasses
- Allow the device to cool to room temperature before opening the bath cover (accessory)

**NOTE****Condensate forms from water vapor!**

The formation of water vapor during operation can cause condensation to build up in the immediate vicinity.

- Ensure sufficient distance between the water bath and adjacent equipment
- When using the bath cover (accessory): Do not close vent holes

**NOTE****Oxidation from insert racks or non-ferrous metal samples!**

Insert racks or non-ferrous metal samples can cause electrochemical oxidation and damage the bath tank.

- Do not use insert racks and samples made of non-ferrous metal
- Only use original JULABO insert racks

**NOTE****Falling bath fluid level!**

In the case of a prolonged temperature control application, the level of bath fluid in the bath tank can fall below the alarm limit due to evaporation. A low liquid level alarm is triggered and temperature control application stops.

- In the event of a prolonged temperature control application, regularly check the fill level of bath fluid in the bath tank
- If the level is low, refill the bath fluid

- The device is ready for use.
- 1. Switch the device on at the mains switch.
- 2. Press **[OK]**.
- ➡ The actual temperature is displayed.
- 3. Set the desired setpoint temperature using the arrow keys.
- 4. Press **[MENU]**.
- ✓ The setpoint temperature is saved. The display flashes briefly. The device starts the temperature control application at once. An acoustic signal sounds at 0.5°C before the setpoint temperature. The temperature control application can be stopped with the **[OK]** key.
- 👉 For temperature control applications near or below the ambient temperature: Use a cooling coil or JULABO immersion cooler.

8.4 Setting the timer

The timer can be used to program the duration of a temperature control application from 0 to 999 minutes. The setpoint temperature is maintained for the programmed time. After the set duration has elapsed, the device switches to standby mode.

- ▶ The device is switched on.
- 1. Press **[MENU]**.
- ➡ The status LED "T" flashes.
- 2. Use the arrow keys to select the menu option **<ON>** and confirm with **[OK]**.
- 3. Press **[OK]** again.
- 4. Use the arrow keys to select the behavior after the timer expires: **<RUN>** or **<STOP>**.
 - 👉 With **<RUN>**, a double signal tone will sound after the timer expires. The temperature control application is continued.
 - With **<STOP>**, a double signal tone sounds after the timer elapses and the temperature control application is stopped.
- 5. Use the arrow keys to set the duration and confirm with **[OK]**.
- ✓ The status LED "T" illuminates. The timer is programmed and active.

The display alternates between showing the actual temperature and the set duration until the setpoint temperature is reached. The timer starts once the setpoint temperature has been reached. The actual temperature and remaining operating time are now displayed in turns.

A double signal tone sounds when the specified time elapses. The device switches to the mode set previously: **<RUN>** or **<STOP>**.

8.5 Stopping the timer

The active timer can be stopped at any time.

- ▶ The timer is active.
- 1. Press **[MENU]**.
- ➡ The status LED "T" starts to flash.
- 2. Use the arrow keys to select the menu option **<OFF>** and confirm with **[OK]**.
- ✓ The timer is stopped.

8.6 Emptying the water bath

Drain the water to clean inside the water bath or to change samples.



CAUTION

Risk of burns from hot bath fluid!

Bath fluid can become very hot during a temperature control process. Contact with hot bath fluid can cause scalding.

- Before draining the device, let it cool to room temperature
- Avoid direct contact with hot bath fluid
- Wear protective gloves

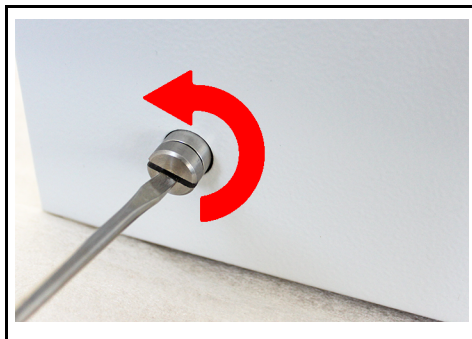
✖ Slotted screwdriver, size 3

► The device is switched off and cooled to room temperature.

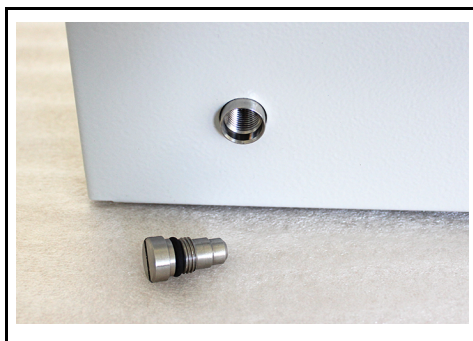
1. Disconnect the power cable.
2. PURA 4: The water bath can now be poured into a suitable container.

All other PURA models:

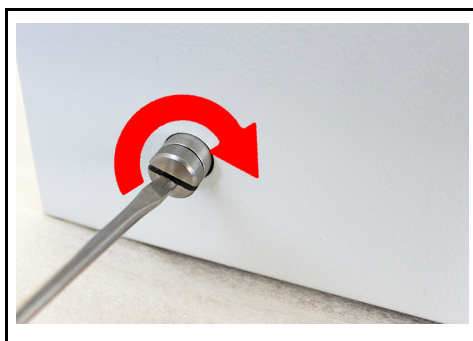
3. Place a container suitable for collecting the bath fluid underneath the drain screw.



4. Unscrew the drain screw.



5. Empty the water bath completely into the container provided.



6. Close the drain opening with the drain screw.
✓ The water bath is emptied.

8.7 Activate autostart function

The autostart function makes it possible to start a temperature control application directly using the mains switch or via an intermediate timer.

The device is configured ex works in such a way that it switches to a safe operating status in the event of power failure. The autostart function is deactivated. The display shows "OFF."

- ▶ The unit is switched off.
- ▶ The autostart function is deactivated.
- 1. Simultaneously press and hold the **[OK]** key and the power switch until the device is switched on.
 - ➔ The display shows **<AOn>**.
 - ✓ The autostart function is activated. The temperature control application starts immediately with the preset values, each time the device is switched on, as long as the autostart function is active. To deactivate the autostart function, switch off the device and repeat the procedure. The display will then show **<AOFF>**.

You can also insert and program a timer. In this case the mains switch of the device must remain on.

9 Maintenance

9.1 Replace detachable power cord

The device is equipped with a detachable power cord.

If the power cord needs to be replaced, ensure that the new one is at least dimensioned for the device power requirements. Insufficiently dimensioned power cords must not be used. See type plate for mains voltage and current value.

We recommend only using original JULABO spare parts.

9.2 Check safety symbols

The safety labels affixed to the device must be clearly legible at all times. Their condition must be checked every two years.

- 1. Check the safety signs on the device for legibility and completeness.
- 2. Replace defective or missing safety markings.
- ☞ Safety signs can be reordered from JULABO.
- ✓ The safety signs on the device have been checked.

9.3 Clean device

Clean the device regularly to ensure that it operates without issue over the long-term.

- ✂ Lint-free cloth
- ✂ Mild cleaning agent
- ✂ Limescale cleaner



NOTE

Damage to the electronics due to water penetration!

Ingress of water can damage electronic components of the device and thus lead to failure of the device.

- Clean the outside of the device with a damp cloth only
- Prevent water from entering the device

1. Clean the surface of the device with a damp cloth.
 - ✎ Use a little dish soap for cleaning. If in doubt, ask Technical Service about alternative cleaning agents.
2. Remove blue residue in the Aqua Stabil bath using a diluted soap-based cleaning solution. To do so, fill the device with your diluted cleaning solution and temper to 60°C for several hours. Then empty the bath and wipe it with a cloth.
3. Regularly remove limescale deposits on the bathtub bottom using a limescale cleaner.
- ✓ The device has now been cleaned.

9.4 Device storage

Take your device out of operation if you have not used it for a long time or, for example, it is to be sent to Technical Service for repair. Follow the procedure described to ensure that your device continues to function reliably even after being stored for a long period.

- The device is switched off.
- 1. Empty the water bath completely.
- 2. Disconnect the device from the power supply.
- 3. Clean the inside and outside of the water bath.
- 4. Close the drain valve (not for PURA 4).
- 5. Store the device in a dust-free, dry and frost-free location.
- ✓ The water bath is taken out of operation and stored away. It can be put into operation again as needed.

9.5 Technical Service

If the unit shows faults you cannot resolve, please contact our Technical Service.

JULABO GmbH
Technical Service
Gerhard-Juchheim-Strasse 1
77960 Seelbach / Germany
Tel.: +49 7823 51-66
Fax: +49 7823 51-99
Service.de@julabo.com

Before sending a device to Technical Service, the following points must be observed:

- Clean and decontaminate the device properly to avoid endangering service personnel.
- Include a brief description of the fault.
- Package the device safely for shipment.

9.6 Warranty

JULABO provides a warranty that the device will function perfectly as long as it is connected and used correctly and as described in the operating manual.

The warranty period is one year from the invoice date.



With the 1PLUS warranty, the warranty can be extended to two years free of charge.

The 1PLUS warranty gives the user a free extended warranty to 24 months, limit to a maximum of 10,000 hours of service.

A prerequisite for this is that the user registers the device at **www.julabo.com**, quoting its serial number, within four weeks of initial operation. The warranty applies from the date of JULABO GmbH's original invoice.

10 Disposal

When disposing of the device, the applicable country-specific guidelines must be observed.

1. Completely drain the unit.
 2. Contact an authorized waste disposal company for disposal of the unit.
- ✎ Disposal of the unit in household waste, or similar facilities for the collection of domestic waste, is not permissible.
 - ✓ The unit can be properly disposed of.

11 EC Declaration of Conformity

EG-Konformitätserklärung EC-Declaration of Conformity

Hersteller / Manufacturer:

JULABO GmbH
Gerhard-Juchheim-Strasse 1
77960 Seelbach / Germany
Tel: +49 7823 51-0



Hiermit erklären wir, dass das nachfolgend bezeichnete Produkt
We hereby declare, that the following product

Produkt / Product: Wasserbad / Water Bath

Typ / Type: PURA 4, PURA 10, PURA 14,
PURA 22, PURA 30

Serien-Nr. / Serial-No.: siehe Typenschild / see type label

aufgrund seiner Konzipierung und Bauart in der von uns in Verkehr gebrachten Ausführung den grundlegenden Sicherheits- und Gesundheitsanforderungen der nachfolgend aufgeführten EG-Richtlinien entspricht.
due to the design and construction, as assembled and marketed by our Company – complies with fundamental safety and health requirements according to the following EC-Directives.

Niederspannungsrichtlinie 2014/35/EU; Low-Voltage Directive 2014/35/EU

EMV-Richtlinie 2014/30/EU; EMC-Directive 2014/30/EU

RoHS-Richtlinie 2011/65/EU; RoHS-Directive 2011/65/EU

Angewandte harmonisierte Normen und techn. Spezifikationen:
Applied following harmonized standards and technical specifications:

EN IEC 63000:2018

*Technische Dokumentation zur Beurteilung von Elektro- und Elektronikgeräten hinsichtlich der Beschränkung gefährlicher Stoffe
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*

EN ISO 12100 : 2010

*Sicherheit von Maschinen - Allgemeine Gestaltungsgrundsätze - Risikoanalyse und Risikominderung (ISO 12100:2010)
Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)*

EN 61010-1 : 2010 / A1 : 2019 / AC : 2019-04, EN 61010-1 : 2010 / A1:2019

*Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte, Teil 1: Allgemeine Anforderungen
Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1: General requirements*

EN IEC 61010-2-010:2020

*Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte Teil 2-010: Besondere Anforderungen an Laborgeräte für das Erhitzen von Stoffen
Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 2-010: Particular requirements for laboratory equipment for the heating of materials*

EN 61326-1 : 2013

*Elektrische Mess-, Steuer-, Regel- und Laborgeräte- EMV-Anforderungen- Teil 1: Allgemeine Anforderungen
Electrical equipment for measurement, control, and laboratory use - EMC requirements - Part 1: General requirements*

Die Konformitätserklärung wurde ausgestellt
The declaration of conformity was issued and valid of

Seelbach, 16.05.2023

i.V. Bernd Rother, Senior Expert Products & Innovation

12 UK Declaration of Conformity

UK Office: JULABO UK Ltd., Unit 7, Casterton Road Business Park,
Old Great North Road, Little Casterton, Stamford, PE9 4EJ, United Kingdom,
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UKCA-Declaration of Conformity

Manufacturer:

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This declaration is issued under the sole responsibility of the product manufacturer

Product:

Water Bath

Type:

PURA 4, PURA 10, PURA 14,
PURA 22, PURA 30

Serial-No.:

see type label

The object of the declaration described above is in conformity with the relevant UK Statutory Instruments and their amendments:

Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility Regulations 2016

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Applied following harmonized standards and technical specifications:

EN IEC 63000:2018

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

EN ISO 12100 : 2010

Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)

EN 61010-1 : 2010 / A1 : 2019 / AC : 2019-04, EN 61010-1 : 2010 / A1:2019

Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1: General requirements

EN IEC 61010-2-010:2020

Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 2-010: Particular requirements for laboratory equipment for the heating of materials

EN 61326-1 : 2013

Electrical equipment for measurement, control, and laboratory use - EMC requirements - Part 1: General requirements

Authorized representative in charge of administering technical documentation:

JULABO UK Ltd., Mr. Gary Etherington, Unit 7, Casterton Road Business Park, Little Casterton, Stamford PE9 4EJ
United Kingdom, Telephone: +44 1733 265892

The declaration of conformity was issued and
valid of

Seelbach, 16.05.2023

i.V. Bernd Rother, Senior Expert Products & Innovation

13 Appendix

13.1 Alarms and Warnings

Alarm and warning messages are described in the table.
If a displayed error code is not described in the table or the error is still pending after switching off and on again, please contact Technical Service.

Error code	Description	Solution
-05	The cable for the working temperature sensor has broken or short-circuited.	• Contact Technical Service.
-14	The set protective temperature has been exceeded.	• Check the bath fill level. If necessary, refill water. • Bath tank bottom is calcified. Remove limescale.
-57	The bath temperature rises too quickly.	• Check the bath fill level. If necessary, refill water.

