Julabo
THE TEMPERATURE CONTROL COMPANY

IC40 / IC50

Immersion cooler IC40/IC50

Translation of the original operating manual

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08/2025

EN

Legal

Headquarters

JULABO GmbH

Gerhard-Juchheim-Strasse 1

77960 Seelbach/Germany

Tel.: +49 7823 51-0

Info.de@julabo.com

www.julabo.com

Branch office

JULABO UK Ltd.

Unit 7, Casterton Road Business Park

Old Great North Road

Little Casterton, Stamford

PE9 4EJ

United Kingdom

Tel.: +44 1733 265892

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

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.

2.1 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.

2.2 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

3 Intended use

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

The JULABO IC40/IC50 immersion coolers are used for cooling liquids, e.g. in Dewar flasks, beakers or other vessels in conjunction with heating circulators, for continuous counter-cooling or as a substitute for dry ice.

Only use the device if it is in technically perfect condition and only use it in accordance with its intended use. Be aware of safety issues or hazards and comply with the operating manual! In particular, always correct malfunctions that could affect safety immediately!

The device is not suitable for direct temperature control application of food, other consumables or pharmaceutical or other medical products.

The device is not suitable for use in an explosive environment.

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.

Staff qualifications:

Technical staff is understood to be a person who successfully completed vocational training. They must assess assigned work and be able to independently recognize and avoid possible dangers based on their specialist training and work experience.

4.2 Safety instructions

The unit is built in accordance with state of the art technology and recognized safety regulations. Despite this, its use may pose a risk to life and limb for the user or third parties.

Therefore, always read and observe the following safety instructions before using the product.

Use other than for the intended purpose!

If the device is used for purposes other than those intended by the manufacturer, the protection afforded by the device may be impaired.

Cooling probe / probe hose

The cooling probe and the probe hose become extremely cold during operation. There is a risk of frostbite.

Only switch on the appliance after the probe has been properly placed in the container for cooling.

Wear suitable gloves and safety goggles.

Do not touch the probe when it is iced up!

Electric shock from electrical system!

Touching damaged live parts can cause severe electric shocks and lead to injury or even death.

- Have damaged insulation and parts of the electrical system immediately repaired by JULABO service technicians or a qualified specialist workshop
- Immediately replace damaged power cords
- When connected with a mains plug, this mains plug must always be readily accessible

Natural refrigerants are flammable!

The unit contains flammable refrigerant in a permanently sealed circuit. If there is a leak in the refrigerant cycle, a flammable concentration may form in the air and ignite or explode. This can result in serious injury or death.

- Use the required minimum room size for operating the unit.
- If refrigerant leaks, stop the unit immediately and ventilate the room thoroughly.
- Have damage to the refrigerant cycle repaired only by JULABO service technicians or qualified specialists.
- Have maintenance work performed only by JULABO service technicians or qualified specialists.
- Nationally applicable standards and guidelines must be observed.

Refrigerants are harmful to health!

Refrigerants and their vapors are harmful to health. There is a suffocation risk in enclosed spaces.

- Do not touch or inhale refrigerants.
- Have damage to the refrigerant cycle repaired only by JULABO service technicians or qualified specialists.
- If refrigerant leaks, stop the device immediately and ventilate the room thoroughly.

Wear personal protective equipment!

Lacking or unsuitable personal protective equipment increases the risk of health damage and injury.

Personal protective equipment includes, for example:

– Work gloves
– Safety shoes
– Protective clothing
– Breathing protection
– Hearing protection
– Face and eye protection

- Specify and provide personal protective equipment for the respective application.
- Use only personal protective equipment that is in good condition and provides effective protection.
- Adapt personal protective equipment to the person, e.g., by size.

Keep safety symbols legible!

Safety symbols on the unit warn of dangers in hazardous areas and are an important part of the unit's safety equipment. Missing safety symbols increase the risk of injury to persons.

- Clean dirty safety symbols.
- Replace damaged and unrecognizable safety symbols immediately.

Maintenance and repair work!

Improper maintenance and repair work jeopardizes operational safety. This can result in serious injury or death.

- Only carry out work described in this operating manual. Switch off the unit and disconnect it from the power supply before carrying out any work.
- All other maintenance and repair work may only be carried out by a JULABO service technician or a qualified specialist workshop.

4.3 Safety symbols

The following safety markings are attached to the device.

Safety symbols	Description	Location
	Warning of a danger zone. Note operating manual	Back of the device
	Warning about hot surface	Condenser
	Warning of cold surface	Probe hose connection
	Warning of flammable refrigerant	Nameplate
	Read operating manual before switching on	Back of the device

5 Product description

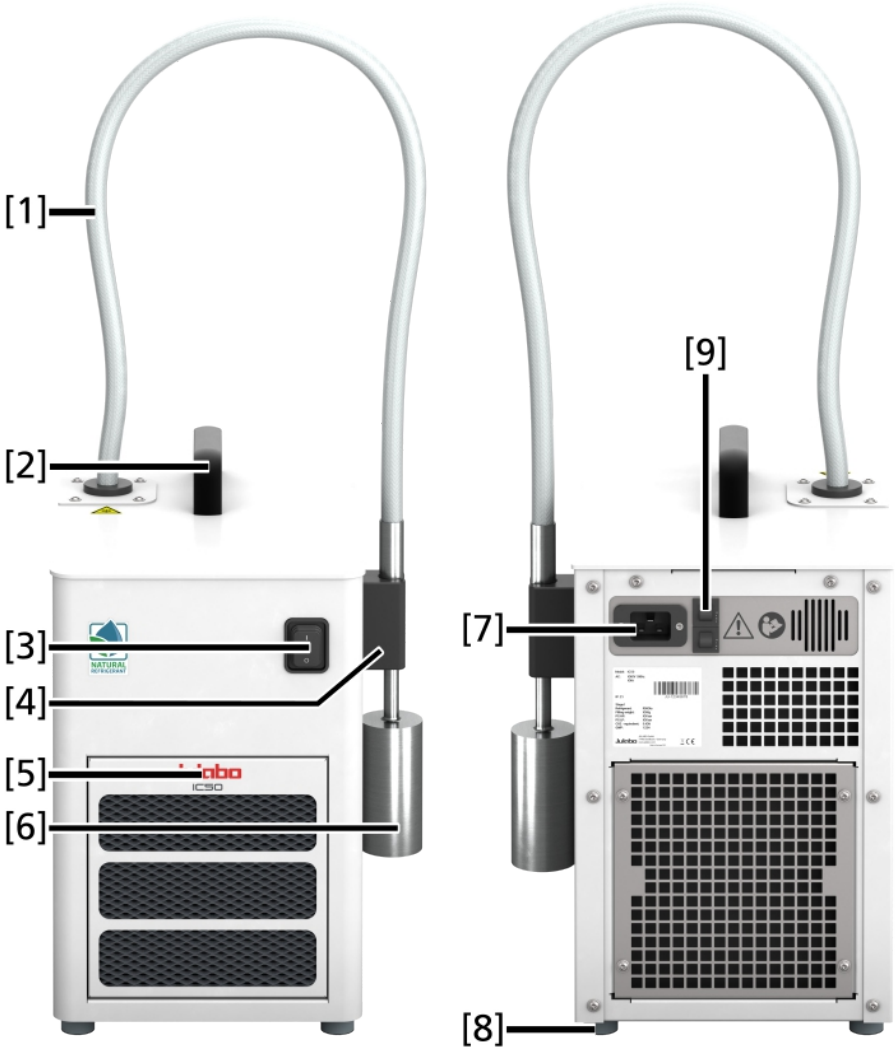
5.1 Function description

This section describes the function of the device.

The JULABO IC40/IC50 immersion coolers are used for cooling liquids, e.g. in Dewar flasks, beakers or other vessels in conjunction with heating circulators, for continuous counter-cooling or as a substitute for dry ice.

5.2 Operating and functional elements

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



Operating and functional elements

1	Probe hose
2	Carrying handle
3	Mains switch
4	Magnetic probe holder
5	Removable ventilation grid
6	Cooling probe
7	Mains connection
8	Rubber feet
9	Mains fuses

The magnetic probe holder can be positioned anywhere on the side of the device housing. The minimum bending radius of the probe hose must be observed.

Magnetic probe holder

NOTE

Do not overbend the probe hose!

Overbending can damage the probe hose.

- The bending radius of the probe hose must not be less than 130 mm.
- At operating temperatures below -25°C, the bending radius must not be less than 200 mm.

NOTE

Condensation on the probe hose!

Condensation may form on the probe hose during and after operation.

- Remove the condensation with a suitable cloth during and after operation.
- If there is a lot of condensation, a container should be placed underneath the hose.

CAUTION

Crushing hazard due to magnetic probe holder!

Body parts can get between the magnet and the housing and be crushed.

- Do not place any body parts between the housing and the magnetic holder.

5.3 Technical data

Performance specifications measured in accordance with DIN12876. Cooling capacities up to 20°C measured with ethanol; over 20°C with thermal oil unless specified otherwise. Performance specifications apply at an ambient temperature of 20°C. Performance values may differ with other bath fluids.

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 (unless otherwise specified in the technical data)
- Maximum relative humidity 80 % for temperatures up to 31 °C, decreasing linearly down to 50 % relative humidity at 40 °C
- Pollution degree 2
- Overvoltage category II

The device is not suitable for use in an explosive environment.

* The immersion cooler is specially designed for cooling applications and therefore cannot be used for heating. The specification of the operating temperature range above the ambient temperature corresponds to the maximum permissible temperature in the application for which the immersion cooler is approved.

The lowest temperature of the operating temperature range corresponds to the minimum temperature that the probe reaches at its surface.

At ambient temperatures >+35°C, the maximum temperature in the application is limited to +40°C.

Technical data		**Intracooler IC40**	
Cooling		Air	
Working temperature range	°C	-40 … +100*	
Ambient temperature	°C	+5 … +40*	
Noise level	dBA	53	
Protection class according to EN 60529		IP21	
Refrigerant		R290	
Overall dimensions (W x D x H)	cm	23 x 44 x 40 (plus probe tube in the upper side)	
Body dimensions (W x D x H)	cm	23 x 44 x 36	
Cooling probe (L x Ø)	cm	10 x 5	
Connecting hose (L)	cm	110	
Weight	kg	21	
Mains connection	V/Hz	115/60	200-230/50/60
Nominal current consumption	A	3	3
Permissible voltage tolerance	%	±10	±5

Technical data		Intracooler IC50	
Cooling		Air	
Working temperature range	°C	-50 … +100*	
Ambient temperature	°C	+5 … +40*	
Noise level	dBA	55	
Protection class according to EN 60529		IP21	
Refrigerant		R1270	
Overall dimensions (W x D x H)	cm	23 x 44 x 40 (plus probe tube in the top)	
Body dimensions (W x D x H)	cm	23 x 44 x 36	
Cooling probe (L x Ø)	cm	10 x 5	
Connecting hose (L)	cm	110	
Weight	kg	21.5	
Mains connection	V/Hz	115/60	200-230/50/60
Power consumption	A	7	4
Permissible voltage tolerance	%	±10	±5

5.3.1 Refrigerant

For safety reasons and in case of leakage in the refrigerant cycle, there is a specified room volume per kg of refrigerant permitted at the installation site so that no flammable refrigerant/air mixture can form. The amount of refrigerant is indicated on the nameplate.

For 0.008 kg of R1270 refrigerant, 1 m^3 of space must be provided or a room volume of 125 m^3 is required for 1 kg of R1270 refrigerant.

For 0.008 kg of R290 refrigerant, 1 m^3 of space must be provided or a room volume of 125 m^3 is required for 1 kg of R290 refrigerant.

Regardless of whether there is **one or more** refrigeration systems per room, the calculation/evaluation is **always the same** because it can be assumed that multiple leaks are not causally related or that a failure will occur as a consequence.

6 Transport and installation

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

NOTE

Do not overbend the probe hose!

Overbending can damage the probe hose.

- The bending radius of the probe hose must not be less than 130 mm.
- At operating temperatures below -25°C, the bending radius must not be less than 200 mm.

CAUTION

Escape of flammable refrigerants!

Damage to the probe hose can cause refrigerant to escape.

- Do not overbend the probe hose
- If refrigerant escapes, switch off the appliance immediately, keep open flames and ignition sources away, ventilate the room well

6.1 Unpacking the device

This section describes how to unpack the device.

1. Check the packaging for transport damage.
2. Open the packaging so that the appliance can be removed from the packaging by the carrying handle or by lifting it by the base of the appliance.
3. Remove the appliance from the packaging and place it on a level, firm surface.

6.2 Transporting the device

This section describes how to transport the unit safely.

- ▶ The appliance is switched off and drained.
- ▶ A suitable transport trolley is available.

2. Disconnect the mains plug from the appliance.
2. Place loose parts, such as cables, on the transport trolley next to the appliance.
3. Lift the appliance by the carrying handle or the base of the appliance and place it on a transport trolley.
4. Secure the appliance against falling over and rolling away.

- ✓ The appliance is ready for transport and can be transported safely to its installation location.

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6.3 Install the device at the operating location

This section describes how to transport the unit safely.

- Place the appliance on a level surface on a non-combustible base.
- The installation site must be frost-proof, dry and well ventilated.
- The free distance in front of the ventilation grids must be at least 20 cm.
- Do not move the appliance away from the installation site during operation.
- After installation, wait at least one hour before operating the appliance. Transport may have caused a shift in the oil, which must first settle.

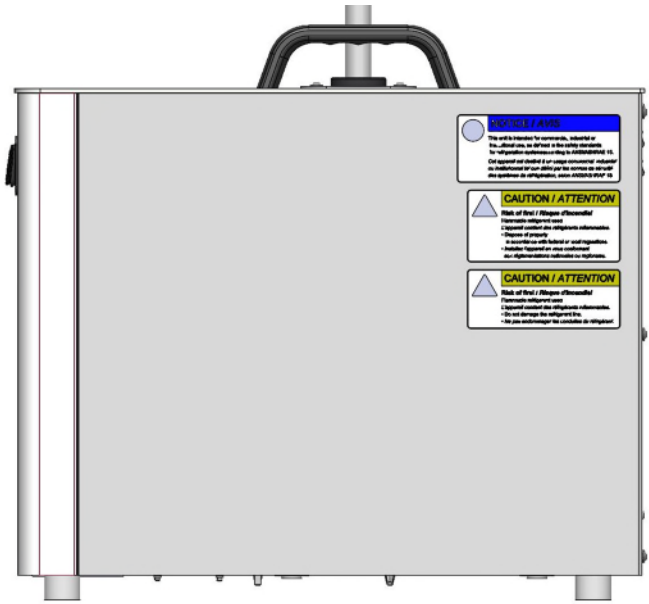
7 Initial operation

7.1 Attach safety signs

The following section applies only to equipment working with natural refrigerants and operated in the US or Canada.

Once the unit is unpacked, first attach the enclosed safety signs.

- ▶ The device is unpacked.
1. Attach the enclosed safety labels to the indicated positions.
- ✓ The safety signs are attached.



Right side of housing

7.2 Immerse the cooling probe in the medium

Before switching on the appliance, the cooling probe must be immersed in the medium.

The maximum immersion depth of the cooling probe is 180 mm.

WARNING

Cold combustion on iced-up cooling probe!

The cooling probe can ice up during operation. Risk of cold burns if the iced-up cooling probe is touched.

- Avoid direct contact with the cooling probe during operation
- Wear protective gloves

NOTE

Damage to the cooling probe / probe hose!

If the connection point between the cooling probe and the probe hose is immersed in the medium, medium can penetrate, freeze and cause damage.

- Do not immerse the probe hose and the connection point between the probe hose and cooling probe in the medium.
- Only the cooling probe may be immersed in the medium.

7.3 Connect the device to the power supply

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

DANGER

Danger to life due to electric shock!

An electric shock can result in serious injury or death.

- Only connect the unit to a mains connection protected by an earth-leakage circuit breaker (Ia = 30 mA)
- Only connect the unit to a mains power outlet with protective earthing contact
- Do not attempt to use the unit if the mains cable is damaged
- Do not attempt to use the unit if the housing is damaged

▶ 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.

8 Maintenance

8.1 Replace detachable power cord

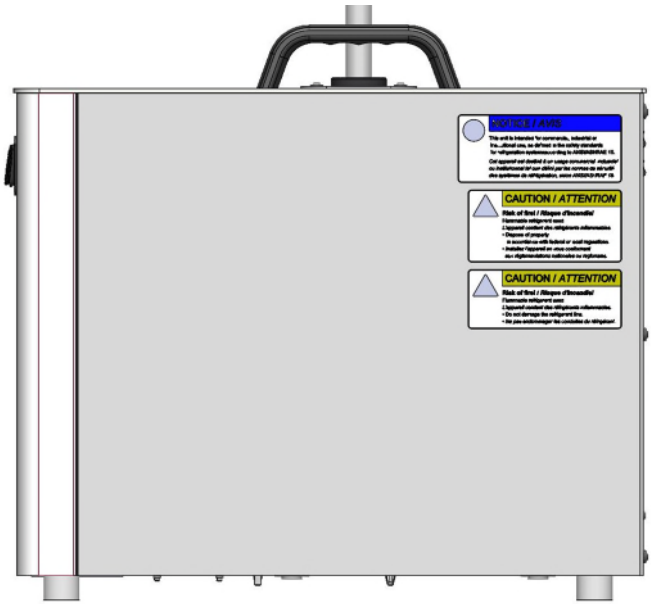
The device is equipped with a detachable power cord.

The unit may only be operated with the included power cable. If the power cable needs to be replaced due to a defect, it can be reordered.

Order number	Designation
5.350.3300	Mains cable EU, 220-230 V
5.350.3310	Mains cable US, 115 V

8.2 Check safety symbols

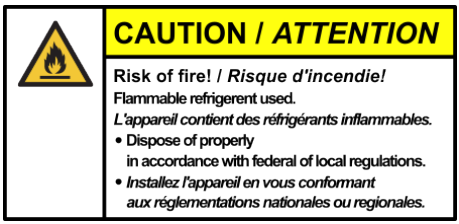
The safety labels affixed to the device must be clearly legible at all times. Their condition must be checked every two years.



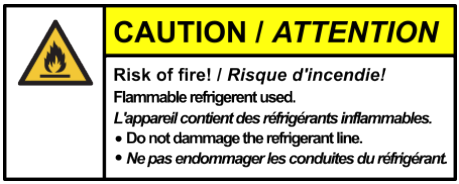
Right side of housing

Note (order no. 3.383.2640):

Safety label (order no.: 3.383.2600):



Safety label (order no. 3.383.2630):



8.3 Clean device

The outside of the device should be periodically cleaned.

- Lint-free cloth
- Mild cleaning agent

NOTE

Observe during cleaning!
No decontamination or cleaning agents are used which could cause a HAZARD as a result of a reaction with parts of the equipment or with material contained in it.

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

8.4 Cleaning condenser

From time to time, the condenser on the front of the device should be cleaned to maintain full cooling capacity.

CAUTION

Risk of fire with flammable refrigerants!

If the device contains a flammable refrigerant, there is a risk of fire if the refrigerant circuit leaks.

- Do not damage the refrigerant lines
- Do not damage the condenser fins
- If refrigerant escapes, switch off the device immediately, keep open flames and sources of ignition away, and ventilate the room well

- ▶ The unit is switched off.
- ▶ The unit is disconnected from the mains.
- ▶ The unit has cooled to room temperature.

1. Press the ventilation grid on the front of the appliance inwards to release the lock and remove it.

2. Use a vacuum cleaner to carefully remove dirt from the condenser.

☝ Make sure not to damage the condenser fins.

3. Reattach the ventilation grid. Press the ventilation grid inwards to lock it again.

✓ The condenser is cleaned.

8.5 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 appliance is switched off and disconnected from the mains.

1. Clean the appliance.
2. Dry the device and all system components carefully, e.g. with compressed air.
3. Store the appliance in a dust-free, dry and frost-free place.

✓ The device is stored safely and securely. It can be put back into operation when required.

8.6 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
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.

8.7 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.

9 Disposal

9.1 Device disposal

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

This symbol on the product or its packaging indicates that it must not be disposed of with household waste. Proper disposal avoids negative effects on people and the environment and allows valuable raw materials to be reused. Information on collection points for old appliances can be obtained from the city or municipality or an authorised disposal company.

CAUTION

Escape of flammable refrigerants!

There is a risk of fire if flammable refrigerant escapes.

- Do not open the refrigerant circuit
- Have the unit disposed of by a certified company in accordance with national or regional regulations

1. 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.

10 EC Declaration of Conformity

EG-Konformitätserklärung nach EG Maschinenrichtlinie 2006/42/EG, Anhang II A
EC-Declaration of Conformity to EC Machinery Directive 2006/42/EC, Annex II A

Hersteller / *Manufacturer*:

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

CE

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

Produkt / *Product*: Eintauchkühler / *Immersion Coolers*

Typ / *Type*: IC40, IC50 **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.

Maschinenrichtlinie 2006/42/EG; Machinery Directive 2006/42/EC
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 Gestaltungsleitsätze - Risikobeurteilung 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 61010-2-011 : 2021, EN IEC 61010-2-011 :2021/A11:2021
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte – Teil 2-011: Besondere Anforderungen für Kühlgeräte
Safety requirements for electrical equipment for measurement, control, and laboratory use –Part 2-011: Particular requirements for refrigerating equipment

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

EN IEC 61326-1 : 2021
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

EN 378-2 : 2016
Kälteanlagen und Wärmepumpen – Sicherheitstechnische und umweltrelevante Anforderungen – Teil 2: Konstruktion, Herstellung, Prüfung, Kennzeichnung und Dokumentation
Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen:
Authorized representative in charge of administering technical documentation:
Hr. Torsten Kauschke, im Haus / *on the manufacturer's premises as defined above*

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

Seelbach, 27.02.2025

B. Roth

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

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11 UK Declaration of Conformity

UKCA-Declaration of Conformity

Manufacturer:

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

UK CA

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

Product: Immersion Coolers

Type: IC40, IC50 **Serial-No.:** see type label

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

Supply of Machinery (Safety) Regulations 2008
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 61010-2-011 : 2021 / A11:2021
Safety requirements for electrical equipment for measurement, control, and laboratory use –Part 2-011: Particular requirements for refrigerating equipment

EN 61326-1 : 2013
Electrical equipment for measurement, control, and laboratory use - EMC requirements - Part 1: General requirements

EN IEC 61326-1 : 2021
Electrical equipment for measurement, control, and laboratory use - EMC requirements - Part 1: General requirements

EN 378-2 : 2016
Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation

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, 27.02.2025

B. Rother

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

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