Julabo
THE TEMPERATURE CONTROL COMPANY

200F / 201F / 300F
310F / 449F / 450F
600F / 601F / 800F
1000F / 1001F / 1200F
1201F / 1800F / 2500F

Refrigerated bath basic units

Original operating manual

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EN

Legal

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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 Notes on commissioning and operation

The cooling machine is combined with a suitable JULABO circulator to form a refrigerated circulator. Operation is done entirely via the control elements of the connected circulator.

Initial operation as well as the individual operating topics are described in the operating manual of the associated circulator.

Please note that this operating manual, as well as that for the corresponding circulator, supplement one another and must always be read together.

2.2 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.

2.3 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.

2.4 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.

2.5 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.

This is a laboratory device intended for temperature control applications of liquid media. It can only be operated in conjunction with a JULABO circulator designed for this purpose.

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 immediately rectify malfunctions that could impair safety!

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 safety symbols included with the device must be attached to the device.
- The operator must ensure that the mains supply has a low impedance to prevent influencing other devices powered by the same supply.
- For devices with multiphase permanent connection, a circuit breaker must be included in installation to ensure safe disconnection.

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.

Hot surfaces!

The following parts and elements may become hot during operation:

– Bath fluid
– Heating element
– Bath lid
– Bath surface
– Connections for external application

Contact may cause severe burns or scalds to hands and arms, face and limbs.

- Keep sufficient distance from hot surfaces and fluids.
- Wear suitable protective gloves.

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

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.

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 can form which can ignite or explode in the presence of a nearby igniting source. This can result in serious injury or death.

- Use the required minimum room size for operating the device.
- Do not store any potential sources of ignition near the device.
- Always plug the power cable into the device first and then into the power socket; unplug in reverse order (prevents sparks).
- If refrigerant leaks, stop the device 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.

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

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
	Warning of cold surface
	Read operating manual before switching on

4.4 Safety function

Technical safety functions protect the device from damage. The safety functions are not affected by the control circuit. If a safety function trips, all actuators are permanently switched off. The operator is warned by an optical and acoustic alarm on the circulator.

High pressure switch

A pressure switch trips when the condensing pressure reaches a defined value. The device switches off the pump, heater and cooling machine. A continuous signal tone sounds. A warning message appears on the display of the connected circulator. The cause must be determined and rectified.

Intrinsically safe devices do not have a high pressure switch.

5 Product description

5.1 Function description

This section describes the function of the device.

The cooling machine is combined with a circulator to form a refrigerated circulator. The device combination can precisely cool and heat samples over a wide temperature range. The device combination is suitable for external temperature applications. The cooling machine is controlled by the connected circulator.

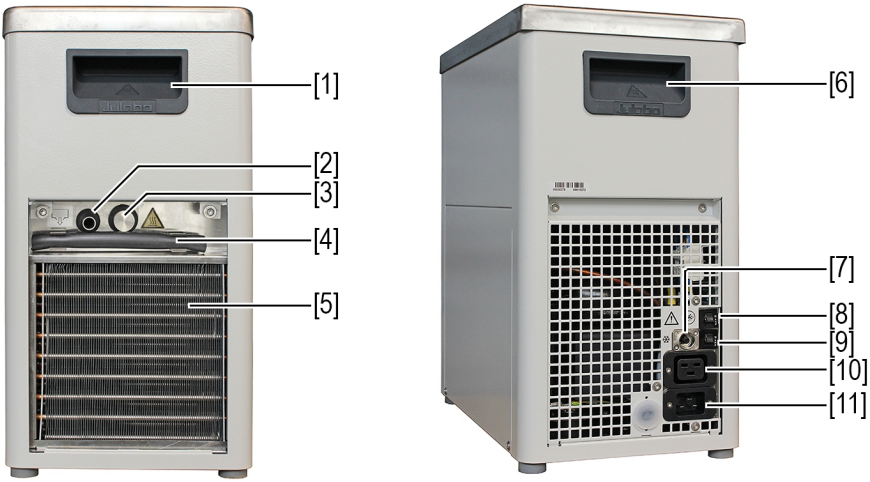
5.2 Possible combinations with circulators

The table lists which cooling machine can be combined with which circulator.

Cooling machine	Circulators				
	CORIO CD	CORIO CP	DYNEO DD	MAGIO MS	MAGIO MX
200F	✓	✓	✓	-	-
201F	✓	✓	✓	-	-
300F	✓	✓	✓	-	-
310F	✓	✓	✓	✓	-
449F	✓	✓	✓	✓	-
450F	✓	✓	✓	✓	-
600F	✓	✓	✓	✓	-
601F	✓	✓	✓	✓	-
800F	✓	✓	✓	✓	-
1000F	✓	✓	✓	✓	-
1001F	✓	✓	✓	-	-
1200F	✓	✓	✓	✓	-
1201F	✓	✓	✓	-	-
1800F	-	-	-	-	✓
2500F	-	-	-	-	✓

5.3 Operating and functional elements

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

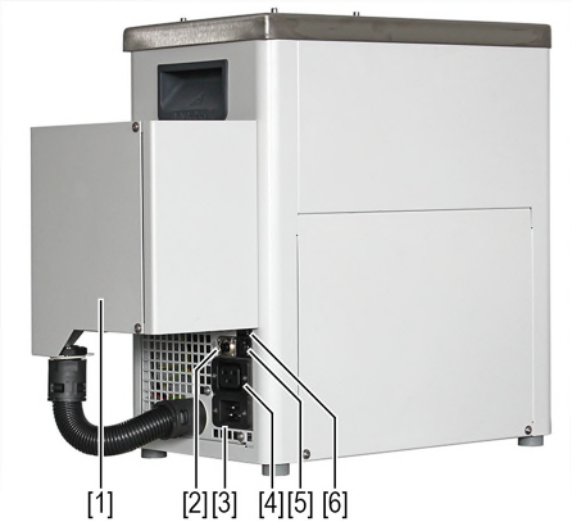


Front (without cover) and rear (e.g. 310F)

1	Recessed grip
2	Bath tank drain opening
3	Drain valve
4	Drain hose (for 310F and 450F)
5	Condenser
6	Recessed grip
7	CAN plug for connection with a circulator
8	Mains fuse, resettable
9	Mains fuse, resettable
10	Circulator mains output socket
11	Mains input socket

5.3.1 External inverter

With the 100 V voltage variant of 310F and 450F, the inverter is mounted on the rear side.



Rear side of 310F/450F (100 V voltage variant)

1	Inverter
2	CAN plug for connection with a circulator
3	Mains input socket
4	Circulator mains output socket
5	Mains fuse
6	Mains fuse

5.4 Operating units with frequency converter

The 449F, 800F, 1200F, 1800F and 2500F units are equipped with frequency converters. In rare cases, operating these units with frequency converters may cause the RCD to trip. This is the case in particular if multiple units with frequency converters are operated on one RCD.

For example, if a three-pole RCD is used, it is advisable to distribute the units across the three phases evenly. Ideally, each unit is protected by its own RCD (RCBO).

To ensure sufficient protection against residual currents, it is also recommended to operate these units on circuits protected by an RCD of type F or higher.

It is currently not possible to use devices with frequency converters on RCDs with a tripping current of 5 mA (so-called GFCIs), which are sometimes used in the USA, since these devices are very sensitive to the high-frequency leakage currents caused by frequency converters.

5.5 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.

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 (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 technical data for the respective device combination can be found in the operating manual of the associated circulator.

Technical data		**200F**		
Performance values				
Lowest temperature	°C	-20		
Refrigerants		R134a/R290		
Dimensions				
Dimensions (W x D x H)	cm	23 x 39 x 44		
Usable bath opening (W x D)	cm	13 x 15		
Bath depth	cm	15		
Volumes min. … max.	l	3.0 … 4.0		
Weight	kg	23		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz
Nominal current consumption	A	4	4	2
Total current consumption	A	15	12	16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

Technical data		201F		
Performance values				
Lowest temperature	°C	-20		
Refrigerants		R134a		
Dimensions				
Dimensions (W x D x H)	cm	44 x 41 x 22		
Usable bath opening (W x D)	cm	13 x 15		
Bath depth	cm	15		
Volumes min. … max.	l	3.0 … 4.0		
Weight	kg	23.6		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz
Nominal current consumption	A	4	3	2
Total current consumption	A	15	12	16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

Technical data		**300F**			
Performance values					
Lowest temperature	°C	-25			
Refrigerants		R134a			
Dimensions					
Dimensions (W x D x H)	cm	24 x 43 x 66			
Usable bath opening (W x D)	cm	13 x 15			
Bath depth	cm	15			
Volumes min. … max.	l	3.0 … 4.0			
Weight	kg	28.0			
Mains connection					
		100 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz	208-230 V 60 Hz
Nominal current consumption	A	5	4	2	2 (208 V) 2 (230 V)
Total current consumption	A	15	12	16	16
Switzerland	A			10	
Great Britain	A			13	
Mains fuse, resettable	A	10	10	10	10

Technical data		**310F**		
Performance values				
Lowest temperature	°C	-30		
Refrigerants		R449A/R290		
Dimensions				
Dimensions (W x D x H)	cm	23 x 40 x 43		
Usable bath opening (W x D)	cm	13 x 15		
Bath depth	cm	15		
Volumes min. … max.	l	3.0 … 4.0		
Weight	kg	23		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	200-230 V 50/60 Hz
Nominal current consumption	A	4	4	2 (200 V) 3 (230 V)
Total current consumption	A	15	12	16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

Technical data		449F		
Performance values				
Lowest temperature	°C	-32		
Refrigerants		R290		
Dimensions				
Dimensions (W x D x H)	cm	37 x 59 x 47		
Usable bath opening (W x D)	cm	28 x 35		
Bath depth	cm	20		
Volumes min. … max.	l	18.0 … 26.0 / 20.0 … 26.0		
Weight	kg	36.7		
Mains connection				
		100-230 V 50/60 Hz		
Nominal current consumption	A A	5 (100 V) 3 (230 V)		
Total current consumption	A	Max. 16		
Switzerland	A	10		
Great Britain	A	13		
Mains fuse, resettable	A	10		

Technical data		**450F**		
Performance values				
Lowest temperature	°C	-30		
Refrigerants		R449A/R290		
Ambient temperature	°C	+5 ... +35		
Dimensions				
Dimensions (W x D x H)	cm	23 x 40 x 43		
Usable bath opening (W x D)	cm	13 x 15		
Bath depth	cm	15		
Volumes min. … max.	l	3.0 … 4.0		
Weight	kg	23		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	200-230 V 50/60 Hz
Nominal current consumption	A	4	5	3 (200 V) 3 (230 V)
Total current consumption	A	15	12	16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

Technical data		**600F**		
Performance values				
Lowest temperature	°C	-35		
Refrigerants		R449A, R452A*		
Dimensions				
Dimensions (W x D x H)	cm	33 x 47 x 47		
Usable bath opening (W x D)	cm	22 x 15		
Bath depth	cm	15		
Volumes min. … max.	l	5.0 … 7.5		
Weight	kg	32.4		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	200-230 V 50/60 Hz
Nominal current consumption	A	11	7	3 (200 V) 4 (230 V)
Total current consumption	A	15	12	16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	12	12	10

** at 100 V, 50/60 Hz*

Technical data		**601F**		
Performance values				
Lowest temperature	°C	-35/-40*		
Refrigerants		R449A, R452A**		
Dimensions				
Dimensions (W x D x H)	cm	33 x 46 x 52		
Usable bath opening (W x D)	cm	22 x 15		
Bath depth	cm	20		
Volumes min. … max.	l	8.0 … 10.0		
Weight	kg	36.0		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	200-230 V 50/60 Hz
Nominal current consumption	A	11	7	3 (200 V) 4 (230 V)
Total current consumption	A	15	12	16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	12	12	10

** depending on the circulator used*

*** 100 V, 50/60 Hz*

Technical data		**800F**		
Performance values				
Lowest temperature	°C	-40		
Refrigerants		R1270		
Dimensions				
Dimensions (W x D x H)	cm	33 x 48 x 70		
Usable bath opening (W x D)	cm	18 x 13		
Bath depth	cm	15		
Volumes min. … max.	l	5.0 … 7.5		
Weight	kg	38		
Mains connection				
		100 V 50/60 Hz	115 V 60 Hz	200–230V 50/60 Hz
Nominal current consumption	A	6	5	4 (200V) 3 (230 V)
Total current consumption	A	15	12	Max. 16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

Technical data		**1000F**		
Performance values				
Lowest temperature	°C	-40/-50*		
Refrigerants		R449A		
Dimensions				
Dimensions (W x D x H)	cm	42 x 49 x 51		
Usable bath opening (W x D)	cm	18 x 13		
Bath depth	cm	15		
Volumes min. … max.	l	5.0 … 7.5		
Weight	kg	50		
Mains connection				
		115 V 60 Hz	200-230 V 50/60 Hz	
Nominal current consumption	A	9	6 (200 V) 6 (230 V)	
Total current consumption	A	16	16	
Switzerland	A		10	
Great Britain	A		13	
Mains fuse, resettable	A	14	10	

** depending on the circulator used*

Technical data		1001F		
Performance values				
Lowest temperature	°C	-38		
Refrigerants		R449A		
Dimensions				
Dimensions (W x D x H)	cm	45 x 64 x 74		
Usable bath opening (W x D)	cm	35 x 41		
Bath depth	cm	30		
Volumes min. … max.	l	42.0 … 56.0		
Weight	kg	70.7		
Mains connection				
		200-230 V 50/60 Hz		
Nominal current consumption	A	5 (200 V) 5 (230 V)		
Total current consumption	A	16		
Switzerland	A	10		
Great Britain	A	13		
Mains fuse, resettable	A	10		

Technical data		1200F		
Performance values				
Lowest temperature	°C	-40/-50*		
Refrigerants		R1270		
Dimensions				
Dimensions (W x D x H)	cm	33 x 48 x 70		
Usable bath opening (W x D)	cm	18 x 13		
Bath depth	cm	15		
Volumes min. … max.	l	5.0 … 7.5		
Weight	kg	38		
Mains connection				
		100 V 50/60 Hz	115 V 50/60 Hz	200–230V 50/60 Hz
Nominal current consumption	A	9	4	4
Total current consumption	A	15	12	Max. 16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

** depending on the circulator used*

Technical data		1201F		
Performance values				
Lowest temperature	°C	-40*		
Refrigerants		R1270		
Dimensions				
Dimensions (W x D x H)	cm	45 x 64 x 77		
Usable bath opening (W x D)	cm	35 x 41		
Bath depth	cm	30		
Volumes min. … max.	l	42 … 56		
Weight	kg	74		
Mains connection				
		100 V 50/60 Hz	115 V 50/60 Hz	200–230V 50/60 Hz
Nominal current consumption	A	9	4	4
Total current consumption	A	15	12	Max. 16
Switzerland	A			10
Great Britain	A			13
Mains fuse, resettable	A	10	10	10

** At operating temperatures below -20 °C, icing can occur on the evaporator in combination with the use of silicon oil.*

Technical data		1800F		
Performance values				
Lowest temperature	°C	-50		
Refrigerants		R1270		
Dimensions				
Dimensions (W x D x H)	cm	40 x 50 x 67		
Usable bath opening (W x D)	cm	18 x 13		
Bath depth	cm	20		
Volumes min. … max.	l	6.5 … 11.0		
Weight	kg	55		
Mains connection				
		200-230 V 50/60 Hz		
Nominal current consumption	A			
Total current consumption	A	16		
Switzerland	A			
Great Britain	A			
Mains fuse, resettable	A	10		

Technical data		2500F		
Performance values				
Lowest temperature	°C	-50		
Refrigerants		R1270		
Dimensions				
Dimensions (W x D x H)	cm	40 x 50 x 67		
Usable bath opening (W x D)	cm	18 x 13		
Bath depth	cm	20		
Volumes min. … max.	l	6.5 … 11.0		
Weight	kg	55		
Mains connection				
		200-230 V 50/60 Hz		
Nominal current consumption	A			
Total current consumption	A	16		
Switzerland	A			
Great Britain	A			
Mains fuse, resettable	A	10		

5.5.1 Material of parts that come into contact with the medium

The table lists parts that could come into contact with the bath fluid as well as the material that the parts are made of. This data can be used to check the compatibility of the parts with the bath fluid used.

Parts that come into contact with the medium	Material
Bath tank	1.4301/304H
Bath tank drain opening	1.4301/304H
Bath tank/bath cover gasket	FKM Viton
O-ring drain valve	FKM Viton

5.5.2 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 R290 refrigerant, 1 m³ of space must be provided or a room volume of 125 m³ is required for 1 kg of R290 refrigerant.

1 m³ of space is required for 0.357 kg of R449A refrigerant.

1 m³ of space is required for 0.423 kg of R452A refrigerant.

1 m³ of space is required for 0,008 kg of R1270 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

This section describes how to transport the unit 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. Unplug the power plug from the device.
2. Use the recessed grip to lift the device onto the center of the transport trolley, if necessary in a pair.

☝ See the technical data for weight information.

3. Use straps to secure the device against tipping in the center of the transport trolley.
4. 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.

6.1 Install the device at the operating location

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

► The unit has been transported to the operation location.
► The size and infrastructure of the operation location are suitable for device operation.
1. If possible, position the device under an extraction system.

☝ Depending on the bath fluid, gases may be created at high temperatures.
☝ Recommended minimum distance of 1 m to other devices, to prevent electromagnetic interference.

2. Place the device on a level, smooth, non-flammable surface.
3. Make sure that the device is in a stable position.
4. For refrigerated circulators: Ensure an open space of at least 20 cm in front of and behind the device.

☝ All ventilation openings in the enclosure must remain uncovered.
☝ The refrigerant cycle must not be damaged.

✓ The unit is set up at the operation location.

7 Maintenance

7.1 Replace detachable power cord

The device is equipped with a detachable power cord.

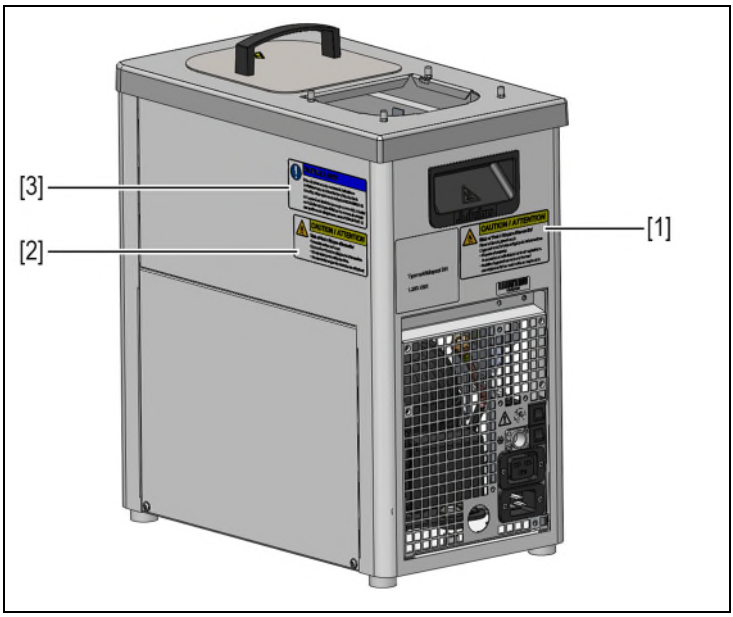
The unit may only be operated with the included power cable. If the power cable needs to be replaced due to a defect, it can be reordered.

Order number	Description
7.901.2655	Power cable EU, 200-230 V
7.901.2701	Power cable CH, 200-230 V
7.901.2665	Power cable CN, 230 V
7.901.2657	Power cable GB, 200-230 V
7.901.2656	Power cable US, 100-115 V

7.2 Check safety symbols

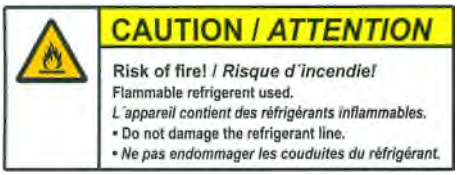
The following section applies only to equipment working with natural refrigerants and operated in the US or Canada.

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



[1] Safety signs (order no.: 3.383.2600):

[2] Safety signs (order no.: 3.383.2630):



[3] Note (order no.: 3.383.2640):

1. Check the safety symbols on the unit for legibility and completeness.
2. Replace defective or missing safety symbols.

☝ Safety symbols can be reordered from JULABO.

✓ The safety symbols on the unit have been checked.

7.3 Emptying

The device must be completely drained if it is to be sent in for technical service or is to be properly disposed of.

In general, the device should be completely emptied before longer shutdowns or when there is a change to the external application.

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

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

1. Place a suitably large collection vessel under the drainage valve.
2. Remove the bath lid.

3. 310F and 450F: Remove the hose and place it on the drain valve [figures].
4. Open the drain valve.

➥ The bath fluid flows into the collecting vessel provided.

5. Close the drain valve when the bath tank is completely empty.
6. Close the bath lid.

✓ The device is emptied. If an external system is connected, it can now be disconnected from the device and also drained.

7.4 Clean device

The outside of the device should be periodically cleaned.

In addition to this, the device must be appropriately decontaminated if hazardous substances have been spilled on or into the device.

- 🛠 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

► The device is switched off and disconnected from the mains voltage.
1. Allow the unit to cool down to room temperature.
2. Completely drain the bath fluid.
3. Clean the surface of the device with a damp cloth.

☝ Some dish detergent may also be used for cleaning. If in doubt, ask technical service for alternative cleaning mediums.

✓ The device has now been cleaned.

7.5 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 device is switched off.

1. Allow the device to cool down to room temperature.
2. Take the venting grid off the front of the device.

3. Use a vacuum cleaner to carefully vacuum the dirt off the condenser.

☝ Make sure that the fins of the condenser are not damaged.

4. Place the venting grid back on.

✓ The condenser is cleaned.

7.6 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 and disconnected from the mains voltage.
1. Empty all system components completely.
2. Clean the device.
3. Carefully dry the device and all its system components, e.g. with compressed air.
4. Close all connections.
5. Store the device in a dust-free, dry and frost-free location.

✓ The device is protected and can be safely stored there. It can be put into operation again as needed.

7.7 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.

7.8 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.

8 Disposal

8.1 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

► The circulator combination is switched off and disconnected from the mains voltage.

1. Allow the device to cool down to room temperature.
2. Disconnect all power cables and, if necessary, data cables from the circulator and cooling machine.
3. Remove the circulator.
4. Completely drain the cooling machine.
5. Dispose of the device by giving it to an authorized disposal company.

☝ Disposed of the device in household waste, or similar facilities for the collection of domestic waste, is not permissible.

✓ The cooling machine is correctly disposed of.

9 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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 200F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umwelttestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 13.12.2023

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

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*: Kältegerät / *Refrigeration Unit*

Typ / *Type*: 201F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

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

2024_147_201F-Kältegerät_d_e.docx

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*: Kältegerät / *Refrigeration Unit*

Typ / *Type*: 300F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

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

2024_148_300F-Kältegerät_d_e.docx

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 310F, 450F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

B. Roth

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

2024_179_310F-450F-Kältegerät_d_e.docx

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 449F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

B. Roth

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

2024_189_449F-Kältegerät_d_e.docx

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*: Kältegerät / *Refrigeration Unit*

Typ / *Type*: 600F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

B. Roth

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

2024_149_600F-Kältegerät_d_e.docx

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 800F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umwelttestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 31.10.2023

B. Roth

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

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*: Kältegerät / *Refrigeration Unit*

Typ / *Type*: 1000F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltteilgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

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

2024_155_1000F-Kältegerät_d_e.docx

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*: Kältegerät / *Refrigeration Unit*

Typ / *Type*: 1001F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umweltbestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 16.12.2024

B. Roth

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

2024_156_1001F-Kältegerät_d_e.docx

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 1200F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umwelttestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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 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, 31.10.2023

B. Roth

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

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 1201F **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 equiment for measurement, control, and laboratory use, Part 1: General requirements

EN IEC 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umwelttestgeräte und andere Temperatur-Konditionierungsgeräte
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning 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, 24.07.2024

B. Roth

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

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 1800F **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
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EN ISO 12100 : 2010
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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
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EN IEC 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umwelttestgeräte und andere Temperatur-Konditionierungsgeräte
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EN 61326-1 : 2013
Elektrische Mess-, Steuer-, Regel- und Laborgeräte- EMV-Anforderungen- Teil 1: Allgemeine Anforderungen
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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, 05.12.2023

B. Roth

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

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*: Kältegerät / Refrigeration Unit

Typ / *Type*: 2500F **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 61010-2-012 : 2022 / A11:2022
Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte —Teil 2-012: Besondere Anforderungen an Klima- und Umwelttestgeräte und andere Temperatur-Konditionierungsgeräte
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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 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, 05.12.2023

B. Roth

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

10 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,
Tel.: +44 1733 265892

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit
Type: 200F **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:

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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 61010-2-012:2022/A11:2022
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment

EN 61326-1 : 2013
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, 13.12.2023

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

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit
Type: 201F **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:

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EN ISO 12100 : 2010
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EN 61010-1 : 2010 / A1 : 2019 / AC : 2019-04, EN 61010-1 : 2010 / A1:2019
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EN IEC 61010-2-012 : 2022 / A11:2022
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment

EN 61326-1 : 2013
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, 16.12.2024

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

2024_147_201F_Refrigeration-Unit_UKCA.docx

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 300F **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:

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EN ISO 12100 : 2010
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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 61010-2-012 : 2022 / A11:2022
Safety requirements for electrical equipment for measurement, control and laboratory use — Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment

EN 61326-1 : 2013
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, 16.12.2024

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UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit
Type: 310F, 450F **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:

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EN 61010-1 : 2010 / A1 : 2019 / AC : 2019-04, EN 61010-1 : 2010 / A1:2019
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EN 61326-1 : 2013
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, 16.12.2024

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

2024_179_310F-450F_Refrigeration-Unit_UKCA.docx

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit
Type: 449F **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:

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EN ISO 12100 : 2010
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EN 61010-1 : 2010 / A1 : 2019 / AC : 2019-04, EN 61010-1 : 2010 / A1:2019
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EN 61326-1 : 2013
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, 16.12.2024

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UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 600F **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

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EN 61326-1 : 2013
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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, 16.12.2024

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2024_149_600F_Refrigeration-Unit_UKCA.docx

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 800F **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
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Applied following harmonized standards and technical specifications:

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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, 06.12.2023

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UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 1000F **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

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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, 16.12.2024

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2024_155_1000F_Refrigeration-Unit_UKCA.docx

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit
Type: 1001F **Serial-No.:** see type label

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

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Authorized representative in charge of administering technical documentation:

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The declaration of conformity was issued and valid of

Seelbach, 16.12.2024

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2024_156_1001F_Refrigeration-Unit_UKCA.docx

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 1200F **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
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The declaration of conformity was issued and valid of

Seelbach, 06.12.2023

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

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 1800F **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
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The declaration of conformity was issued and valid of

Seelbach, 06.12.2023

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

UKCA-Declaration of Conformity

Manufacturer:

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

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

Product: Refrigeration Unit

Type: 2500F **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

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Authorized representative in charge of administering technical documentation:

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The declaration of conformity was issued and valid of

Seelbach, 06.12.2023

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