

Operating Instructions

WATER COOLING UNIT

**LABORATORY EQUIPMENT IN
STAINLESS STEEL**



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Dear Customer!

The WATER COOLING UNIT makes your device self-sufficient from the laboratory installation. A pump cools your machine out of a 40 l water tank. This avoids overheating and reduces water consumption costs. The universal use also allows use for other refrigeration cycle purposes.

Any other use or use beyond this is deemed improper. For resulting damage the user/operator of this device is solely responsible.

Prior to installation of the device operating instructions and especially the safety instructions must be read and followed by all personnel who use this device.

After having unpacked the device, please check carefully whether transportation damages of any kind have occurred. If that is the case, the carrier or manufacturer must be notified within 3 days. The company will not be responsible for any damages found after that.

These operating instructions must be read and followed by all personnel who use this device. To ensure quick access we recommend to keep it at a safe place near the device. In case of loss it can be ordered at a nominal fee from the manufacturer.

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INDEX

1	EQUIPMENT	4
1.1	BASIC EQUIPMENT	4
1.2	SPECIAL EQUIPMENT	4
1.3	DEVICE COMPONENTS	4
1.4	TECHNICAL DATA.....	5
2	SAFETY NOTES	6
2.1	GENERAL SAFETY NOTES	6
2.2	SPECIFIC SAFETY INSTRUCTIONS	7
3	INSTALLATION	8
3.1	FILLING THE DEVICE	8
3.2	INSTALLATION.....	8
4	OPERATION	8
5	TROUBLESHOOTING	9
6	MAINTENANCE	9
7	WARRANTY.....	10
8	DISPOSAL REGULATIONS	13
9	SPARE PARTS LIST	14
10	EU DIRECTIVE	FEHLER! TEXTMARKE NICHT DEFINIERT.

1 Equipment

1.1 Basic Equipment

- Circulation cooling from a stainless steel housing with a closed water circuit and a pump

1.2 Special Equipment

- Best.-Nr.: 22902000 Automatic switch

1.3 Device Components

- 1 Basin
- 2 Pump
- 3 Lid with opening for water drain from the device to the basin
- 4 Cooling water inlet hose
- 5 Filter
- 6 Power plug
- 7 Thermometer with digital display and temperature sensor

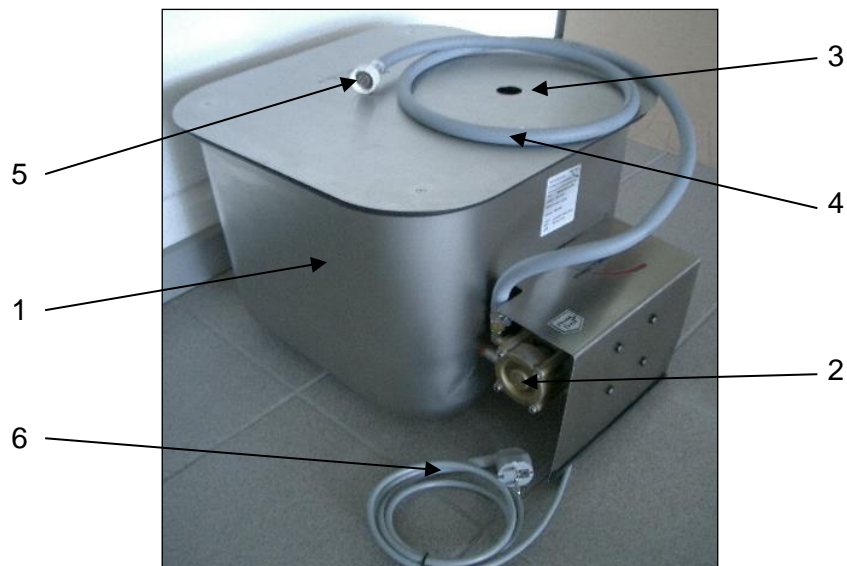


Fig.: Device view



Fig.: Thermometer

1.4 Technical Data

Line voltage	230 V/50–60 Hz
Current consumption	150 W
Height / width / depth	350/450/580 mm
Volume	40 l
Weight	12 kg
Max. pumping power	10 l/min.
Sound level	≤ 70 dB(A)
Housing	Stainless steel
Made in Germany (Subject to modifications)	

2 Safety Notes

2.1 General Safety Notes

- All equipment undergoes final inspection and testing before leaving our factory. However, if equipment is damaged during shipping or through any other circumstances, it must not be used in service. Please check the device regularly for damages. Damaged parts should be replaced immediately.
- All power/air/water/gas sources should be rated for the demands of the device as listed in the technical data sheets. Maximum ratings must not be exceeded. All VDE (Verein Deutscher Elektro-Ingenieure) standards should be followed. Equipment should be grounded according to standards.
- Adherence to valid regulations regarding necessary checks (e.g. according to Accident Prevention & Insurance or electrical equipment) is exclusively taken over by the buyer/user of this product.
- This device has been designated to be used only for its intended purpose. All other applications must be prohibited for safety reasons as otherwise the manufacturer's warranty expires.
- The device should be set-up in a clean, well-ventilated room, if necessary under a hood.
- Supporting surfaces should be straight, flat and adequately stable.
- Don't place anything on top of the machine.
- To avoid injury, appropriate protection should be worn (e.g. gloves, safety glasses, safety shoes, hearing protection etc.)
- If the machine is defective or working improperly it must be taken out of service. In case of further use of the machine the owner will be held responsible for any consequential damage.
- To prevent accidents from water, fire or explosion, all power/air/water/gas sources should be turned off after working hours and during breaks, and secured against unauthorized access.
- When carrying out maintenance works or repairs or when opening the device always turn off the main power switch and unplug the whole unit.
- Repairs should be carried out only by the manufacturer or by qualified and certified personnel appointed according to chapter 7 – warranty.
- In case of leaking water out of housing or tank shut down device and call service.
- Keep the device clean and dry.
- Check all hose joints for tightness, if necessary tighten hose clamps.

2.2 Specific Safety Instructions

Attention:

Do not hold objects, living things or body parts into the water!

- The water temperature must not exceed 35-40 ° C.

3 Installation

The equipment delivered is ready for immediate use. The sealed plug can be connected directly to the mains supply 230 V/16 A. For installation please refer to chapter 2.

3.1 Filling the device

1. Fill the water basin with cold water to about 5 cm below the upper edge.

3.2 Installation

1. Connect the pump (2) and the unit to be cooled with the cooling water inlet hose (4).
2. Make the power supply by plugging the power plug (6) into the appliance socket.

4 Operation

1. Switch on the device to be cooled.
2. Check the water circulation function (basin> pump> appliance> basin).
3. Check if there is a constant water flow at the water return.
4. Check the cooling function (read the water temperature on the thermometer (7), pay attention to the permissible temperature of 35-40 °C depending on the application).

5 Troubleshooting

Device cannot be switched on.	a. Check fuse of the building. b. Check device's fuse. (The fuse holder is located at the power connector of the device.)
Water is not transported.	Pump (2) runs dry a. Fill up the water b. Fill the water hose connection (pump to the unit) with water. c. Intake hose blocked → Check filter (5) and clean if necessary d. Check the power supply to the pump
Water temperature too high.	Switch off the device. Let the water cool down or renew the water.
Algae form in the water.	Add a few drops of tetraclean or soft bleach to the cooling water.

6 Maintenance

- Regularly check the device's state. Pay attention to visible damage to housing or power cord.
- Renew the water in case of contamination or odor. To do this, remove the cover plate, empty the basin (1) and refill it.

Note

Clean and protect your device at regular intervals with the REITEL stainless steel care spray (order -no.: 90405000) to remove lime, plaster and dust as well as other contaminants from the surface of the equipment and to prevent corrosion. The spray creates a lasting, water repellent protective film which helps keep the equipment clean.

7 Warranty

We, REITEL Feinwerktechnik GmbH, offer a 1 year's warranty beginning from the proven date of purchase. This warranty covers all defects traceable to materials, design or workmanship. The following warranty regulations are applicable:

Within the warranty period Reitel Feinwerktechnik GmbH or an authorised distributor agrees at its sole option, to perform repair or replace this product at no charge covering all defects traceable to materials, design or workmanship. Warranty only applies to appropriate use and regular maintenance of this product according to the operating instructions. Claims under warranty are restricted to complementary performance. Additional claims, especially claims for indemnifications, are not covered by this warranty.

1.

Warranty claims have to be addressed to the distributor the product was purchased from or directly to our service department.

Contact:

REITEL Feinwerktechnik GmbH

Senfdamm 20

49152 Bad Essen

Germany

Phone: +49(0)5472-9432-32 (Service Department)

Phone: +49(0)5472-9432-0 (Reception)

Fax-No: +49(0)5472-9432-40

2.

In case of warranty claim application the sales receipt or your purchase invoice showing the date of purchase of the product and the serial number must be furnished. Securely pack and ship the device, freight charges prepaid, at your own risk to us, along with a report describing the defect. We reserve the right to decline warranty if this information has been removed or modified after purchase of the product or if they are not included in case of warranty claims.

3.

Warranty repairs have to be performed by REITEL Feinwerktechnik GmbH or by authorized distributors. Repairs performed by non-authorized companies will void the claim for refund since damages to the product resulting hereof are not covered by warranty.

4.

If the unit sent in for repair or replacement is still under the original warranty then warranty is to the end of the original 1 year warranty.

5.

If the unit is destined to be operated in another country than originally intended and manufactured for, modifications to the product might be necessary to comply to special technical and /or safety standards of that specific country. Such modifications are no defects traceable to materials, design or workmanship. and are therefore expressly excluded from warranty claims.

Modification costs or damages arising from operation of the product under deviating conditions are not covered by warranty.

6.

Exclusions from warranty:

- Service and maintenance work as well as repair and replacement of consumables according to our consumables' list
- Transportation cost of the machine or installation and dismounting expenses incurred
- Damages due to use of the product other than for its intended purpose
- Damages due to faulty installation or insufficient maintenance of the product (e.g. decalcification)
- Damages due to natural disaster e.g. lightning, water, fire, act of nature beyond control, war, inadequate line voltage, insufficient ventilation, no decalcification, insufficient care and cleaning or non-adherence to operation and maintenance instructions according to the accompanying operation guide.
- Damage due to use of the product other than in accordance with the instructions provided by REITEL Feinwerktechnik GmbH;
- The warranty does not cover the cost of removal and replacement of parts and accessories, unless supplied as original equipment by REITEL Feinwerktechnik GmbH
- All kind of damages occurred not directly at the device as well as consequential damages (e.g. damages to furniture due to a lack of water, downtime of the machine, material, lost working hours, wages and other consequential damages).

This warranty shall be rendered null and void if:

- the product has been subject to any modification, repair or replacement other than as authorized by REITEL Feinwerktechnik GmbH
- the product is continued to be operated despite a functional defect

7.

The warranty is device specific and may be claimed, within the warranty period, by any person who has legally acquired the device.

8.

Consumables are excluded from warranty. Spare parts are subject to a warranty coverage of 6 months against all effects traceable to materials, design or workmanship according to these warranty regulations.

9.

Legal default claims on the part of the purchaser remain unaffected by this warranty.

10.

We reserve the right to charge a processing fee if you do not want to carry out a repair and the device should be returned unrepaired.

11.

Please note:

Upon repair or replacement of this unit, personal data and settings might get lost or damaged. We don't accept liability for all kind of data loss. The customer is advised to backup essential programs and data before sending for service.

12.

This warranty shall be interpreted in accordance with German law to the exclusion of UN sales law. Place of jurisdiction is our business location.

13.

If any provisions of this warranty are judged to be illegal or unenforceable, the continuation in full force and effect of the remaining provisions will not be prejudiced. The provisions of this warranty judged to be illegal or unenforceable shall be construed so as to give effect to the intent manifested by the provision by the provision held invalid, illegal or unenforceable and to give effect to section 13 hereof.

14.

Should you need to borrow a device while your device is being repaired, please contact Messrs. REITEL or your distributor. These loans are a service for which availability cannot necessarily be guaranteed. After the warranty period, a fee may be charged for loan equipment as well as for shipping and packaging.

8 Disposal Regulations



According to valid laws our devices are properly disposed of according to B2B – Regulations for proper disposal. Pls. contact your local dealer for additional information.

9 Spare Parts List

Order-No.:	Water Cooling Unit Spare parts list	Qty.	Unit
E6565500	Thermometer temperature gauge	1	Stck piece

10 EU DIRECTIVE

EU-Konformitätserklärung EC-Conformity Declaration CE-Déclaration de Conformité

im Sinne der EG-Richtlinie 2006/42/EG über Maschinen (Anhang II A)
according to Machinery Directive 2006/42/EC (Appendix II A)
au sens de la Directive Machines 2006/42/CE (Annexes II A)

Name und Anschrift des Herstellers/Name and address of manufacturer/Nom et adresse du fabricant:

Reitel Feinwerktechnik GmbH
Senfdamm 20
49152 Bad Essen

Diese Erklärung bezieht sich nur auf die Maschine in dem Zustand, in dem sie in Verkehr gebracht wurde; vom Endnutzer nachträglich angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt. Die Erklärung verliert ihre Gültigkeit, wenn das Produkt ohne Zustimmung umgebaut oder verändert wird./This declaration relates exclusively to the machinery in the state in which it was placed on the market and excludes components which are added and/or operations carried out subsequently by the final user. This declaration will become invalid if any unauthorised modification is made to the product./Cette déclaration concerne exclusivement les machines dans l'état dans lequel elles ont été mises sur le marché et exclut des composants ajoutés et/ou les opérations effectuées par la suite par l'utilisateur final. La présente déclaration perd sa validité si des modifications non-autorisées ont été apportées à la machine.

Hiermit erklären wir, dass die nachstehend beschriebene Maschine/We hereby declare that the machine described below/Nous déclarons que la machine ci-dessous

Produktbezeichnung/Product name/Nom du produit: Umlaufkühlung/
Water Re-Circulation Unit/
Refroidissement en Circuit Ferme

Typenbezeichnung/Type/Type: UMLAUFKÜHLUNG

allen einschlägigen Bestimmungen der Maschinenrichtlinie 2006/42/EG und 2011/65/EU (RoHS 2) entspricht. Die Schutzziele der Richtlinie 2014/35/EU über elektrische Betriebsmittel werden eingehalten./ is in conformity with all applicable requirements of the Machinery Directive 2006/42/EC and 2011/65/EU (RoHS 2). The safety objectives of the Directive on Electrical Equipment 2006/95/EC are adhered to./ est conforme aux dispositions applicables de la Directive Machines 2006/42/CE et 2011/65/CE (RoHS 2). Les objectifs de sécurité de la Directive sur les Matériels Electriques 2006/95/CE sont respectés.

Angewandte harmonisierte Normen/Harmonised standards applied/Normes harmonisées appliquées:

EN ISO 12100:2011 DIN EN 61010-1:2020
DIN EN60204-1:2019 DIN EN 45635-1

Bevollmächtigter für die Zusammenstellung der relevanten technischen Unterlagen/Representative authorised to compile the relevant technical documentation/Personne autorisée à constituer la documentation technique pertinente:

Daniel Reitel
Reitel Feinwerktechnik GmbH
Senfdamm 20
49152 Bad Essen

11.02.2021

Ort, Datum
Place, Date
Lieu, Date

Daniel Reitel, Geschäftsführender Gesellschafter/Managing Director/
Directeur Général



Unterschrift/Signature/
Signature

We manufacture in compliance with Quality Management ISO 9001:2015 incorporating established standards.



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