

Operating Instructions

STAR

LABORATORY EQUIPMENT



Dear Customer!

The STAR is a steam cleaner with a single steam level. Grease, sticky wax, pickling agents, various contaminants and adhesives are gently removed without affecting the object itself. Environmentally safe, because no chemicals are needed.

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 ACCESSORIES.....	4
1.3	OPERATING ELEMENTS	5
1.4	TECHNICAL DATA.....	7
2	SAFETY INSTRUCTIONS.....	8
2.1	GENERAL SAFETY INSTRUCTIONS	8
2.2	SPECIFIC SAFETY INSTRUCTIONS	9
3	INSTALLATION	10
4	OPERATION	10
4.1	CHRONOLOGICAL RUN OF OPERATION.....	10
4.2	DECALCIFY THE DEVICE WHEN USING NON-DISTILLED WATER.....	10
5	TROUBLESHOOTING	11
6	MAINTENANCE	12
7	WARRANTY.....	13
8	DISPOSAL REGULATIONS	16
9	SPARE PARTS LIST	17
10	EU DIRECTIVE	18

1 Equipment

1.1 Basic Equipment

- Steam Cleaner STAR

1.2 Special Accessories

- Order-No.: 20107000 Wall holder
- Order-No.: 20121000 Hand pump for descaling
- Order-No.: 90410000 Descaler, 1.000 ml
- Order-No.: 10106000 BIOSTEAM CENTER with suction
- Order-No.: 20200000 Water softening device DELIMER COMFORT

1.3 Operating Elements

- 1 Housing
- 2 Main switch
- 3 Control lamp "lack of water"
- 4 Control lamp "heating"
- 5 Heating controller
- 6 Tank cap
- 7 Steam gun
- 8 Steam gun hose
- 9 Deflector plate
- 10 Safety valve
- 11 Temperature limiter
- 12 Device's fuse
- 13 Steam gun switch
- 14 Pistol clip or holder
- 15 Contact screw

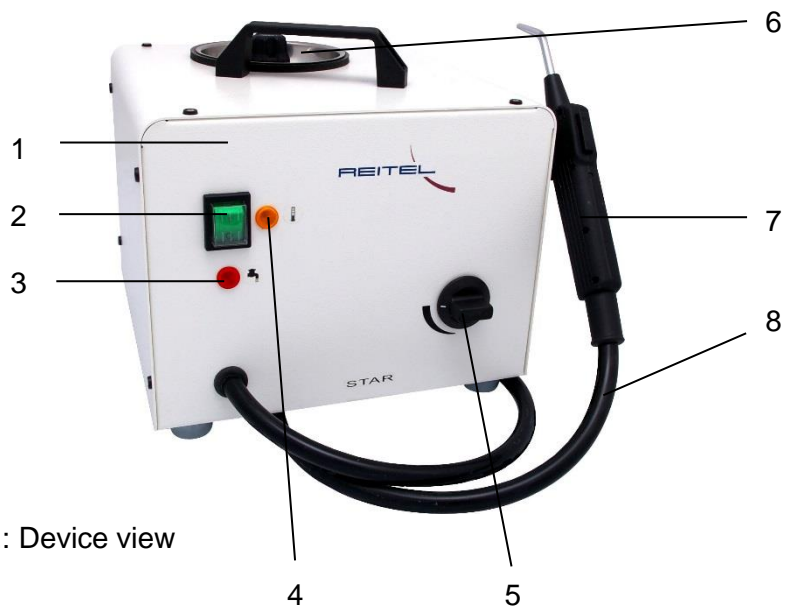


Fig.: Device view

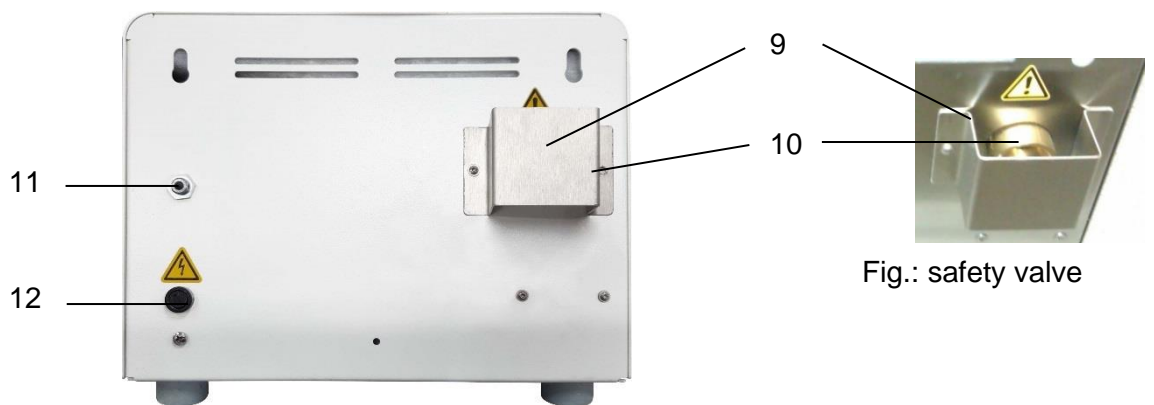


Fig.: safety valve

Fig.: rear view

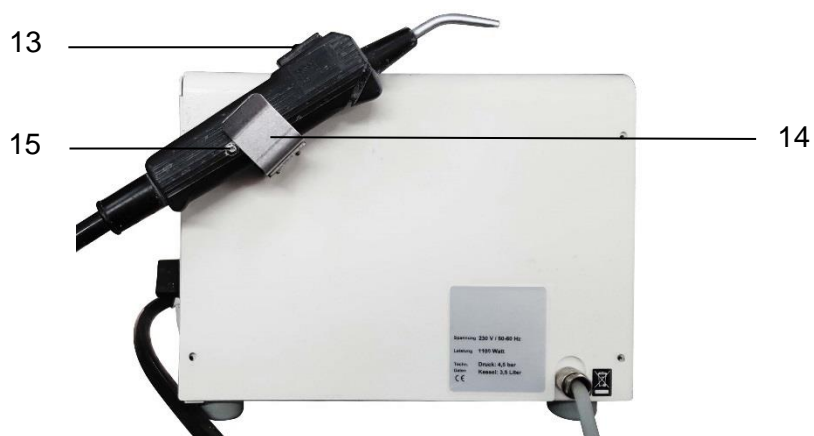


Abb.: side view



Fig.: Posture for fast operation and high ergonomics



Fig.: Posture for detailed cleaning

1.4 Technical Data

Line voltage	230 V / 50 - 60 Hz
Current consumption	1200 W
Height (+ handle) / width (+ handle) / depth	280 / 330 / 330 mm
Weight	8 kg
Pressure	0 - 4 bar variable
Temperature	150 °C
Volume	3,5 l
Control	Pressure via temperature
Steam level	1
Filling	Manual
Housing	Laminated steel
Made in Germany (Subject to Modification)	

2 Safety Instructions

2.1 General Safety Instructions

- 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.
- Check all hose connections for leak tightness, if necessary tighten hose clamps again

2.2 Specific Safety Instructions

Note:

- Keep a minimum safe distance of 100 cm from the safety valve (back) to traffic areas or workplaces – Danger of scalding.
 - Ground yourself by touching the steam gun handle (7) and the contact screw (15). Alternatively lay your hand flat on the steam cleaner's housing. (Gases or fluids flowing through pipes generate static electricity. For safety reasons static electricity is discharged during evaporation by the contact screw at the steam gun's handle. If the user gets an electric shock when touching the device or the steam gun the person was exposed to static electricity before. The combination of floor covering and shoe soles is often the reason, falling outside the sphere of influence of the steam cleaner's manufacturer)
-
- We recommend to fill this device only with decalcified or distilled water (damage due to limescale deposits is not covered by warranty). Decalcification depending on water hardness: every one or two weeks. Not necessary if distilled water is used (we recommend special accessories: Water softening device DELIMER COMFORT).
 - The device must not be filled under pressure and not be connected to the water supply.
 - The steam jet is only to be aimed at objects which need cleaning, never at living beings.
 - Only clean objects appropriate for this purpose, if necessary first clean sample or test on an inconspicuous area.
 - The tank cap (6) may only be opened if the device is not under pressure.
 - The device may not be filled when the radiator is hot and the tank is empty (danger of scalding).
 - The device should be filled every morning when it is still cold in order to preserve the heating aggregates as well as gaskets. Furthermore an unintended break will be avoided.
 - In case of leaking water (caution: hot) out of housing or tank shut down device (see chapter 5 Troubleshooting).
 - Gases or fluids flowing through closed tubes or hoses generate static electricity. It should be continuously discharged. If static electricity is noticeable before using the steam gun, the user was exposed to static electricity before (e.g. carpets, shoes).
 - Keep a safe distance.

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.

4 Operation

4.1 Chronological run of operation

1. Use the device only when it's filled with water. (Pay attention to safety notes in chapter 2!) In order to avoid an unintended dry run a daily filling in the morning is recommended. Turn heating control (5) completely to the left (if necessary ventilate tank by activating steam gun). Fill the device only in a cold state. Open tank cap (6) and fill in distilled or decalcified water up to the edge (a filling funnel is recommended). Tighten tank cap (6) hand-tight.
2. Turn main switch (2) on. Set heating control (5) to max. by turning in clockwise direction. If the heating control is not set to max., the control lamp heating (4) might shine, although the tank was filled up. However the STAR is ready for operation, but at low temperature. The heating is automatically activated and the lamp (4) shines. After approx. 18 min. pressure has built up and the control lamp (4) goes out.
3. Adjust steam pressure with controller (5).
4. For dry steam please press steam gun switch (13). (Pressure builds up only in the upper quadrant of the control area. Pressure builds up with a slight delay).

4.2 Decalcify the device when using non-distilled water

1. Turn off the main switch (2).
2. Let the device cool down and empty the tank.
3. Fill in decalcifying agent. (Attention: Use decalcifying agent only for its intended purpose and respect the instructions of the manufacturer!)
4. Close the tank (6).
5. Switch main switch (2) on. As soon as pressure starts building up (control by activating steam gun switch), turn the controller (5) down. For decalcifying the steam valve put the device in some short intervals on the left side and activate the steam gun switch (13). Then put the device in an upright position and let the decalcifying agent take effect.
6. Let the device cool down. Release pressure and empty the tank. For easy emptying, use the optional hand pump for descaling.

5 Troubleshooting

Machine doesn't work after turning it on.	<ul style="list-style-type: none"> a. Check the building's fuse. b. Check device's fuse.
Safety valve (10) opens or water leaks.	<ul style="list-style-type: none"> a. Slightly down-regulate controller (5) and call service. ATTENTION: If available don't remove cover and don't close opening. b. Tank is overfilled → drain some water out.
Control lamp (3) shines, although water has been filled in and steam has been taken out.	Temperature limiter (11) or heating control (5) switched off by itself → Set heating to max. and press temperature limiter at the back of the device again after cooling down.
Tank cap (6) untight	→ Replace tank cap or seal.
No steam	Device might be calcified, valve might be blocked, switches or valves might be defective → call service
No steam pressure.	Control unit (5) is not set to max.
Steam gun drops.	Device might be calcified, valve might be blocked → Decalcify
Electric shocks to the user's hand.	Permanently touch contact screw (15) at the steam gun (see chapter 2.2 Specific safety instructions).
High seal abrasion.	→ Ventilate tank with steam gun switch (13).
Device doesn't work after turning it on (main switch (2) doesn't shine.	Socket without tension → Check the building's fuse.
Device fuse blown.	→ Unplug the device and change the fuse (12) .
Short circuit	<p>In case of leaking water out of housing or tank shut down machine and call service.</p> <p>Attention: Water temperature might be up to 145 degree C. – Danger of scalding!</p>

6 Maintenance

- Please check the device regularly for damages. Take care of visible damages at the housing or cable.
- Using hard water we recommend to decalcify the unit regularly (chapter 4.2 “Decalcify the device when using non-distilled water”).

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 it is not included.

3.

Warranty repairs have to be performed by REITEL Feinwerktechnik GmbH or by authorised distributors. Repairs performed by non-authorised 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 authorised 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 defects 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 fee if repair of the device is rejected and the device is destined to be sent back 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 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.:		Qty.	Unit
E6291010	Steam nozzle 1,5 mm assy	1	piece
E6291000	Steam nozzle (standard) 2,5 mm assy	1	piece
E6065810	Steam gun complete with hose	1	piece
E6065850	Steam gun (black), completed	1	piece
20110000	Extra hose extension - 2,30m	1	piece
27000800	Tank cap seal 5 pcs./pack	1	Pack
E6225700	Rubber ring for funnel	1	piece
E6063600	Heating (incl. sealing set E6060000)	1	piece
E6060400	Clip for steam gun incl. Holder	1	piece
E6060000	O-ring seal set for heating	1	set
E7209700	Switch for black steam gun	1	piece
E6069900	Pump for decalcification, manual operation	1	piece
E6064800	Switch with green lamp	1	piece
E6065000	Key's protective cap (2 pcs.)	1	set
E6048700	Delay fuse 6,3 A	1	piece
E7413500	Round yellow signal lamp	1	piece
E7413400	Round red signal lamp	1	piece
E6063000	Tank cap without safety valve	1	piece
20100000	Wall mounting set	1	piece

10 EU DIRECTIVE

EU-Konformitätserklärung EC Conformity Declaration CE-Déclaration de Conformité

im Sinne der Niederspannungs-Richtlinie 2014/35/EU (Anhang III B)
according to Low Voltage Directive 2014/35/EU (Appendix III B)
au sens de la Directive Basse Tension 2014/35/EU (Annexes III B)

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 das Gerät in dem Zustand, in dem es 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 unauthorized 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 nachstehend beschriebenes Gerät/We hereby declare that the machine described below/
Nous déclarons que la machine ci-dessous

Produktbezeichnung/Product name/Nom du produit: Dampfstrahlgerät/
Steam Cleaner/
Machine à vapeur

Typenbezeichnung/Type/Type: STAR

allen einschlägigen Bestimmungen der Richtlinie 2014/35/EU und 2011/65/EU (RoHS) entspricht.
is in conformity with all applicable requirements of the Directive 2014/35/EU and 2011/65/EU (RoHS).
est conforme aux dispositions applicables de la Directive 2014/35/EU et 2011/65/EU (RoHS).

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

DIN EN 61010-1:2020 DIN EN 45635-1

11.02.2021

Ort, Datum
Place, Date
Lieu, Date

Daniel Reitel, Geschäftsführender Gesellschafter/Managing Director/
Directeur Général



Unterschrift/Signature/
Signature

Manufacturing is performed in compliance to Quality Mangement System ISO 13485:2016 incorporating established standards.



REITEL Feinwerktechnik GmbH
Sensdamm 20 | 49152 Bad Essen
Phone: +49(0)5472-9432-0 | Fax: +49(0)5472-9432-40
www.reitel.com | info@reitel.com