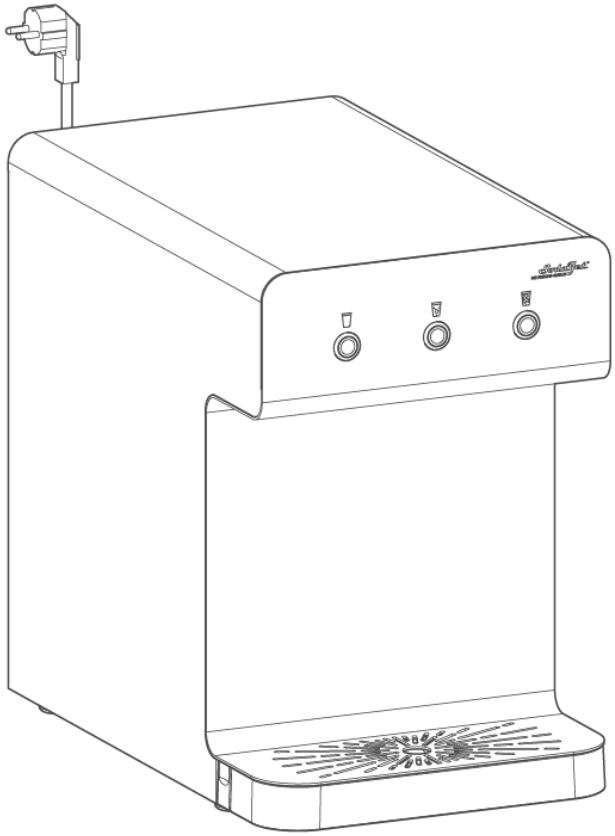
We understand water.



Drinking water dispenser | SODA JET Office

Operation manual

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Monday to Thursday
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7:00 am - 4:00 pm

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Table of contents

1 Introduction

This manual is intended for owners/operating companies, users as well as qualified specialists and ensures the safe and efficient handling of the product. The manual is an integral part of the product.

- Carefully read this manual and the instructions contained within it on the components before you operate your product.
- Adhere to all safety instructions and instructions for action.
- Keep this instruction and all other applicable documents, so that they are available when needed.

Figures in this manual are for basic understanding and may differ from the actual version.

1.1 Validity of the manual

This manual applies to following products:

- Drinking water dispenser SODA JET Office Standard
- Drinking water dispenser SODA JET Office with flushing unit
- Special versions which essentially correspond to the indicated standard products.

1.2 Other applicable documents

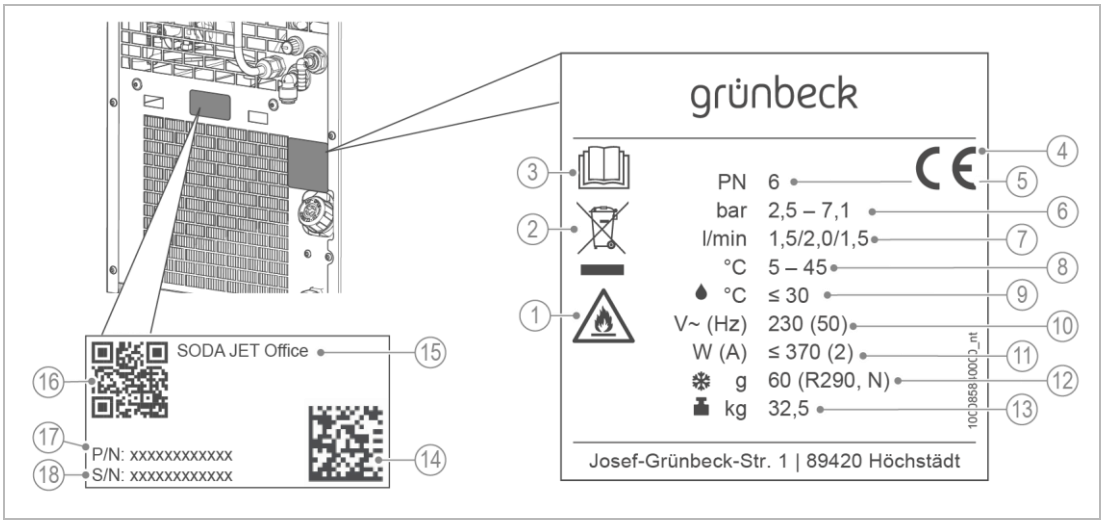
- Operation log SODA JET Office, order no. 100073610000
- Quick reference manual SODA JET Office, order no. 100072070000
- Mounting instructions for accessories

1.3 Product identification

You can identify your product by means of the product designation and the order number on the type plate.

► Check whether the products indicated in chapter 1.1 correspond to your product.

The type plate is located on the back of the device.



	Designation
1	Warning symbol for flammable substances
2	Disposal information
3	Obey the operation manual
4	CE mark
5	Nominal pressure
6	Operating pressure
7	Nominal flow STILL/MEDIUM/CLASSIC
8	Ambient temperature
9	Water temperature

	Designation
10	Rated voltage/frequency
11	Power input (current consumption) during dispensing and cooling
12	Coolant and climatic category
13	Empty weight
14	Data matrix code
15	Product designation
16	QR code
17	Order no.
18	Serial no.

1.4 Symbols used

Symbol	Meaning
	Danger and risk
	Important information or prerequisite
	Useful information or tip
	Written documentation required
	Reference to further documents
	Work that must be carried out by qualified specialists only
	Work that must be carried out by qualified electricians only
	Work that is only allowed to be carried out by technical service personnel

1.5 Depiction of warnings

This manual contains information which you must observe for your own personal safety. This information is highlighted by a warning sign and has the following structure:

SIGNAL WORD Type and source of the hazard

- Possible consequences
- ► Preventive measures

The following signal words are defined depending on the degree of danger and may be used in this document:

Warning sign and signal word		Consequences if the information/instructions are ignored
DANGER	Personal injury	Death or serious injuries
WARNING		Possible death or serious injuries
CAUTION		Possible moderate or minor injuries
NOTE	Damage to property	Possible damage to components, the product and/or its functions, or anything in its vicinity.

1.6 Demands on personnel

During the individual life cycle phases of the product, different people carry out work on the product. The respective tasks require different skills.

1.6.1 Qualification of personnel

Personnel	Prerequisites
Operator/user	• No special expertise • Knowledge of the tasks assigned • Knowledge of possible dangers in case of inappropriate conduct • Knowledge of necessary protective equipment and protective measures • Knowledge of residual risks
Owner/operating company	• Product-specific expertise • Knowledge of statutory regulations for safety and accident prevention
Qualified specialist • Electrical engineering • Sanitary engineering (HVAC and plumbing) • Transport	• Professional training • Knowledge of relevant standards and regulations • Knowledge of detection and prevention of potential hazards • Knowledge of statutory regulations on accident prevention
Technical service (Grünbeck's technical service/authorised service company)	• Extended product-specific expertise • Trained by Grünbeck

1.6.2 Authorisations of personnel

The following table describes which activities are allowed to be performed by whom.

	Operator/ user	Owner/ operating company	Qualified specialist	Technical service
Transport and storage		X	X	X
Installation and mounting			X	X
Start-up		X	X	X
Operation and handling	X	X	X	X
Cleaning		X	X	X
Inspection		X	X	X
Maintenance			X	X
Troubleshooting		X	X	X
Repair			X	X
Shutdown and restart		X	X	X
Dismantling and disposal			X	X

1.6.3 Personal protective equipment

► As an owner/operating company, ensure that the required personal protective equipment is available.

The components below fall under the heading of personal protective equipment (PPE):


Protective gloves


Protective footwear


Protective goggles

2 Safety

2.1 Safety measures

- Only operate your product if all components are installed properly.
- Obey the local regulations on drinking water protection, accident prevention and occupational safety.
- Do not make any changes, alterations, extensions or program changes on your product.
- Only use genuine spare parts for maintenance or repair.
- Observe the maintenance intervals (refer to chapter 8.2). Failure to comply can result in microbiological contamination of your drinking water system.

2.1.1 Danger due to carbon dioxide (CO_2 gas)

- The CO_2 gas is a non-combustible, non-corrosive, colourless and odourless gas that is non-hazardous to water.
- It is one and a half times heavier than air and might accumulate close to the floor or in low-lying parts of a building when released. CO_2 gas is classified as inert (under normal conditions, no chemical reaction with other substances).
- Elevated CO_2 concentrations can occur in case of larger accumulations in enclosed spaces.
- Higher CO_2 concentrations lead to health problems, even despite sufficient oxygen levels, and there is a risk of asphyxiation.

2.1.2 Mechanical dangers

- You must never remove, bridge, or otherwise tamper with safety equipment.
- For all work on the device that cannot be carried out from the ground, use stable, safe and self-standing climbing aids.
- Make sure that the device is set up in a way that it cannot tip over and that the stability of the device is guaranteed at all times.

2.1.3 Pressure-related hazards

- Components can be under pressure. There is a risk of injuries and damage to property due to escaping water and unexpected movement of components. Check the pressure lines for leaks at regular intervals.
- Components of the device are pressurised. Do not loosen or remove components which are under operating pressure.
- Before starting repair and maintenance work, make sure that all affected components are depressurised.

2.1.4 Electrical dangers

There is an immediate danger of fatal injury from electric shock when touching live components. Damage to the insulation or individual components can be life-threatening.

- Only have qualified electricians carry out electrical work on the device.
- In case of damage to live components, switch off the voltage supply immediately and arrange for repair.
- Switch off the voltage supply before working on electrical system components. Discharge the residual voltage.
- Never bypass electrical fuses. Do not put fuses out of operation. Observe the correct current rating when replacing fuses.
- Keep moisture away from live parts. Moisture can cause short-circuiting.
- Do not open the device, you may come into contact with live parts.

2.1.5 Group of persons requiring protection

- Children must not play with the product.
- This product can be used by children over 8 years of age and persons with limited abilities or lack of experience if they are supervised or instructed in the safe use of the product and understand the resulting hazards.
- Cleaning and maintenance must not be carried out by children.

2.2 Product-specific safety instructions

2.2.1 Water supply

- The device is connected to the water supply system by means of removable hose kits.
  - Only use the hose kit included in the scope of delivery.
  - Replace old, damaged hose kits - old hose kits must not be reused.

2.2.2 Power supply

- Portable multiple sockets or power supply units must not be placed at the back of the device.
- The socket must not be located below the cold water connection.
- The plug must be fitted in such a way that the device can be unplugged immediately and at all times in the event of malfunctions or maintenance work.
- Make sure that the socket has a protective earth conductor. Otherwise, retrofit the socket with an adapter with protective earth contact.

- The mains cable of the device must be laid free of kinks and tension.
- Do not wind up or squeeze the mains cable of the device.
- A damaged mains cable on the device must be replaced by the manufacturer, or their after-sales service, or a similarly skilled person in order to avoid hazards.

2.2.3 Minimum distance between the back of the device and the wall surface

- The back of the device must be installed at a minimum distance of 50 mm from the wall surface.
  - The aeration and ventilation openings on the back of the device must be kept clear.
  - The minimum distance ensures the required air exchange rate for cooling the cooling unit.

2.2.4 Danger from coolant in the cooling unit

- After transport in horizontal position, store the device in an upright position for at least 24 h before starting it up.
- During transport, the oil contained in the compressor may shift in the cooling system.
  - After setting up the device, wait at least 1 hour before starting it up.
- The device should not be tilted when moving it.
- Do not put the device back into operation if it is damaged (e.g. if it falls over) - danger due to flammable coolant.
  - Contact customer service.
  - The coolant R290 has flammability class A3 and must be disposed of by qualified specialists for coolants only.

2.2.5 Handling CO_2 cylinders (compressed gas cylinders)

The installation of compressed gas cylinders must be carried out by qualified specialists only.

The safety instructions and requirements for the operation of compressed gas cylinders must be strictly adhered to.

DANGER Risk of explosion

- In case of overpressure, the compressed gas cylinder can explode.
- ► Place the compressed gas cylinder in an upright position and secure it against tipping over.
- ► Always connect the compressed gas cylinder to the pressure reducer with safety valve.
- ► Regularly check the connections for leaks and damage.

DANGER Risk of asphyxiation from carbon dioxide (CO_2)

- In case of damage, gas can escape.
- ► Check that the prerequisites below are fulfilled:
  - The installation site must be suitable for the CO_2 gas cylinder used.
  - Alternatively, a monitored technical ventilation system must exist.
  - If this is not possible, a gas warning system for CO_2/lack of oxygen must be installed to protect the installation room.

Prerequisites when handling compressed gas cylinders

- When connected, store compressed gas cylinders in an upright position only and secure them with the mounting bracket. Do not throw or tilt compressed gas cylinders.
- Store compressed gas cylinders in a cool, well-ventilated place.
- Protect compressed gas cylinders from heat and direct sunlight.
- Keep them at a minimum distance of 500 mm to radiators other heat sources.

2.2.6 Safety devices

- Pressure reducer for water incl. non-return valve
- Safety valve on the carbonator (7.5 bar)
- CO_2 pressure reducer with safety valve against overpressure in the case of an external CO_2 cylinder

2.2.7 Signals and warning devices

The affixed information and pictograms must be clearly legible.
They must not be removed, soiled or painted over.

Identification marks on the product

	Risk of electric shock		Secure the CO_2 cylinder
	Hot surface		Read the operation manual
	Combustible substances		Pull the mains plug

► Obey all warnings and safety instructions.
► Immediately replace illegible or damaged symbols and pictograms.

2.3 Conduct in an emergency

2.3.1 If there is a water leak

1. De-energise the device – pull out the mains plug.
2. Locate the leak.
3. Eliminate the cause of the water leak.

2.3.2 In case of escaping CO_2

1. De-energise the device – pull out the mains plug.
2. Close the cylinder valve of the CO_2 cylinder and the shut-off valve of the CO_2 pressure reducer.
3. Ensure that the room is ventilated quickly.
4. Keep people away and evacuate the area, if necessary.
5. Eliminate the cause of the CO_2 leak.

3 Product description

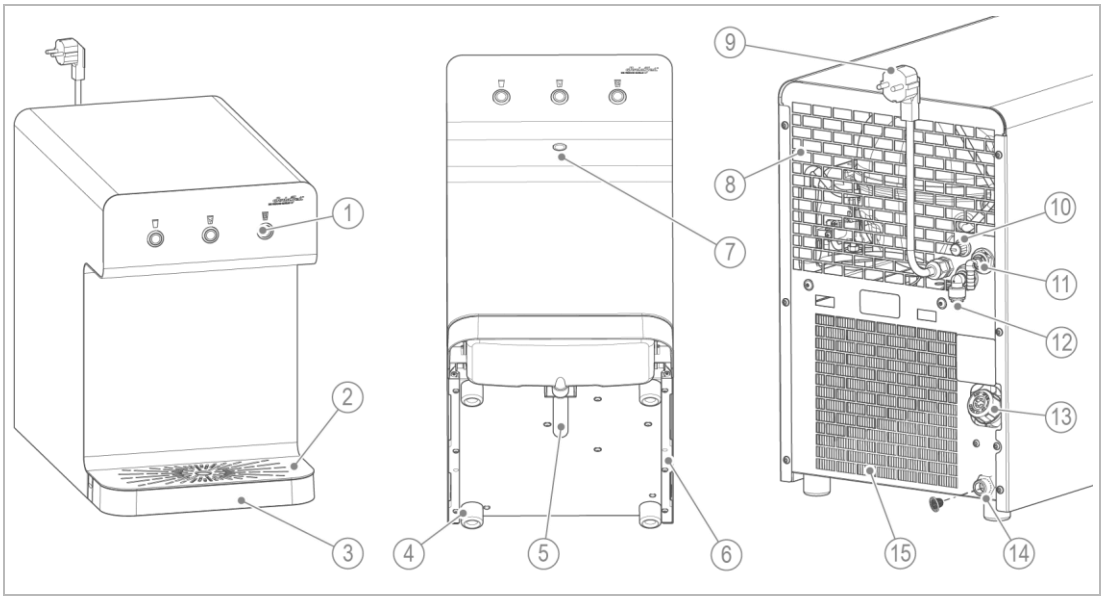
3.1 Intended use

- The SODA JET Office drinking water dispenser is designed for the generation of refrigerated and/or carbonated water.
- The SODA JET Office drinking water dispenser is designed for use in the industrial and commercial sector, as well as in public facilities.
- The drinking water dispenser is used, for example, in offices, public facilities, hospitals, nurseries, health and fitness centres.
- The drinking water dispenser may only be operated inside a building.

3.1.1 Foreseeable misuse

- Use of the drinking water dispenser at non-appropriate installation sites, e.g. outdoors (refer to chapters 2.2.1 and 5.2.2).
- The drinking water dispenser must not be placed directly at a water withdrawal point (e.g. directly next to a water tap) where splash water is to be expected.
- Use of media other than water.
- Use the drinking water dispenser at full cooling capacity in continuous operation (dispensing capacity ≤ 90 l/h).

3.2 Product components



	Designation	Functions/characteristics
1	Dispense buttons with LED	for the 3 tastes and status signals
2	Placement area	for collection container with drip tray cover plate
3	Dripping water pan	extendable, with level and contact sensor
4	Adjustable feet	made of rubber for vibration damping
5	Drain connection	with hose adaptor for dripping water pan and outlet hose to the drain
6	Griprail	for gripping when setting up and moving the device
7	Outlet	Built-in dispenser pipe for water dispensing
8	Slats	for exhaust air
9	Mains cable	with Schuko mains plug for the device power supply
10	Temperature controller	for setting the cooling temperature for water
11	Flushing unit connection (optional)	with flushing water hose to the drain connection
12	CO_2 connection	Input for external CO_2 cylinder (Plug-in connection for Ø 8 mm hose)
13	Disinfection tank	for inserting the disinfection tablets
14	Water connection	Inlet for drinking water with cap and inserted cap sieve (for connection hose DN 8 with 3/8" screw connection)
15	Ventilation slats	for aeration of the device

3.3 Functional description

The drinking water dispenser is connected to the cold water network of the domestic drinking water system. In a cooling unit, the incoming drinking water is cooled to the desired temperature.

The drinking water dispenser is designed for a dispensing capacity of up to 90 l/h in cycle mode.

For the water types CLASSIC and MEDIUM the drinking water dispenser can be continuously tapped for 5 minutes (1.5 l/min = 7.5 l).

- Cycle mode: max. 5 minutes continuous dispensing ► min. 10 minutes operational break

In the STILL water path, the water is only cooled. Continuous tapping is possible.

In the CLASSIC water path, the water flows through a carbonator. The water in the carbonator is enriched with food carbon dioxide (CO_2) using an external CO_2 cylinder.

In the MEDIUM water path, still water and water containing CO_2 gas are mixed.

The solubility of the CO_2 is determined by the set operating parameters. The CO_2 concentration depends on the water pressure, the CO_2 pressure and the temperature.

With a temperature controller on the back of the device, the cooling temperature can be continuously adjusted between 5°C and 20°C.

Three different water types can be dispensed:

- STILL (refrigerated water)
- MEDIUM (cool and slightly sparkling)
- CLASSIC (cool and highly sparkling)

Depending on which dispense button is being pressed, the corresponding solenoid valves of the dispenser unit open during tapping.

Any dripping water is collected in a built-in dripping water pan with filling level contacts, or drained off via an optional drain connection.

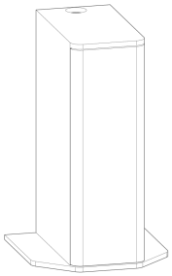
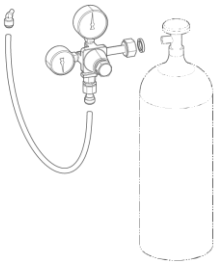
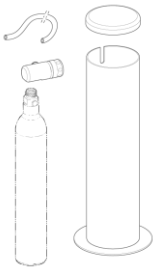
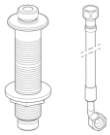
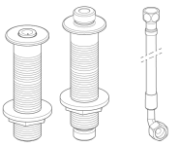
If the dripping water pan is full, or not in the device, a fault signal is given by the MEDIUM LED flashing.

SODA JET Office with flushing unit (optional)

This flushes the content of the device to the drain at regular intervals. Stagnation times are reduced, and hygiene is improved. The drain connection is an essential requirement for this purpose.

3.4 Accessories

Your product can be retrofitted with accessories. Please contact your local Grünbeck representative or Grünbeck's headquarters in Hoechstaedt/Germany for details.

Illustration	Product	Order no.
	**SODA JET Office base cabinet** to hold the SODA JET Office drinking water dispenser and accommodate the CO_2 cylinder	**156710000000**
	**CO_2set large** for 6 kg and 10 kg CO_2 cylinders, incl. pressure reducer, CO_2 line, CO_2 connections	**156711000000**
	**CO_2set small** for 425 g CO_2 cylinder, incl. pressure reducer, CO_2 line (Ø 8 mm), container (Ø 100 x 395 mm) and stainless steel cover	**156712000000**
	**Table feed-through water** as a detachable connection on both sides for easy assembly above and below the tabletop for water inlet	**156713000000**
	**Table feed-through water and CO_2** as a detachable connection on both sides for easy assembly above and below the tabletop for the water inlet and the CO_2 line	**156714000000**
	**Line feed-through** for diameter 80 mm in white, to cover the bore in the tabletop	**156715000000**
	**Hygiene filter clearliQ safe+** for the production of hygienic fresh water through the adsorption of bacteria	**156000060000**
	Filter module clearliQ safe as a multi-layer filter for the production of pure water	**156000070000**
	Water filters for the filtration of cold drinking water, are used at the withdrawal point (Point-Of-Use) directly on an angle valve.	

4 Transport, installation and storage

4.1 Shipping/Delivery/Packaging

The device is fixed on a pallet at the factory and secured against tipping.

- ► Obey the instructions on the packaging.
- ► Load and unload the device with a forklift or lift truck with appropriate forks.

4.2 Transport/Placing

WARNING Tipping over in case of inappropriate transport

- Crushing of persons/body parts
- ► Transport the device by means of a forklift or lift truck with appropriate forks only.

NOTE Risk of damage in case of transport in horizontal position

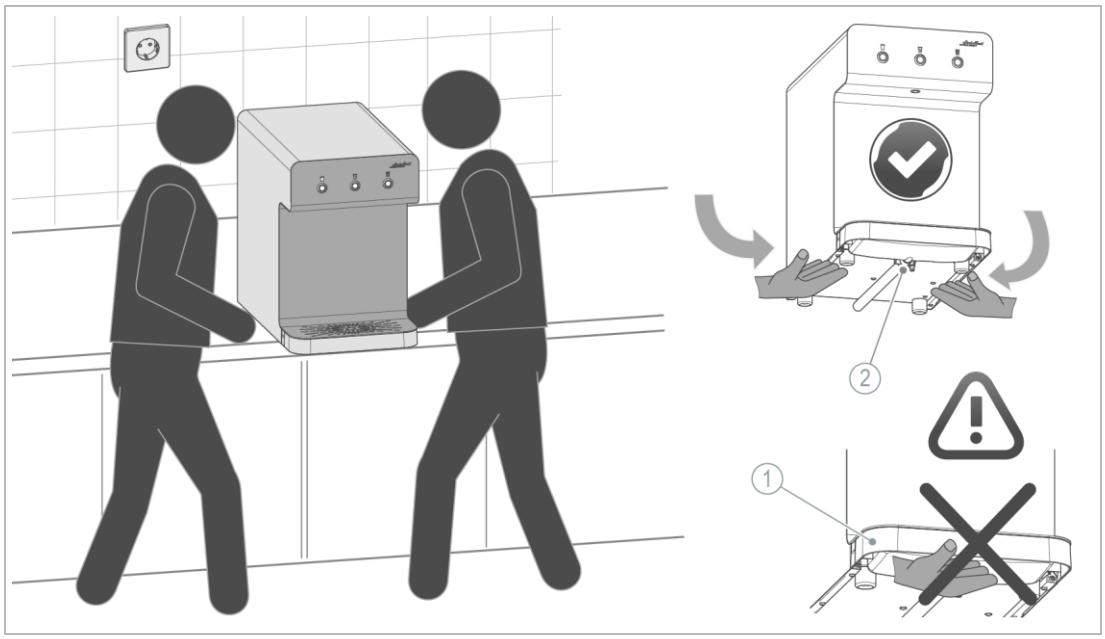
- The cooling unit can be damaged.
- ► After transport in horizontal position, store the device in an upright position for at least 24 h before starting it up.

- ► Transport the device to the installation site in its original packaging only.

During transport, the oil contained in the compressor may shift in the cooling system.

- ► After setting up the device, wait at least 1 hour before starting it up.

- ► Release the packaging straps and, with the help of another person, carefully remove the device from the pallet.
- ► Unpack the device and check the scope of supply (refer to chapter 5.3).
- ► Note the requirements for the installation site (refer to chapter 5.2).



	Designation		Designation
1	Dripping water pan	2	Hose adaptor with outlet hose

► At the installation site, place the device on a horizontal and flat surface with the help of someone else.

With fixed connection of the dripping water pan with outlet hose to the drain, e.g. for SODA JET Office with flushing unit.

► Attach the outlet hose to the pre-mounted hose adaptor on the device (refer to chapter 5.4.4).

► Ensure that the device is not placed at a water withdrawal point (e.g. directly next to a water tap).

► Dispose of the packaging material in an environmentally sound and appropriate manner only after installation of the device (refer to chapter 11.2).

4.3 Storage

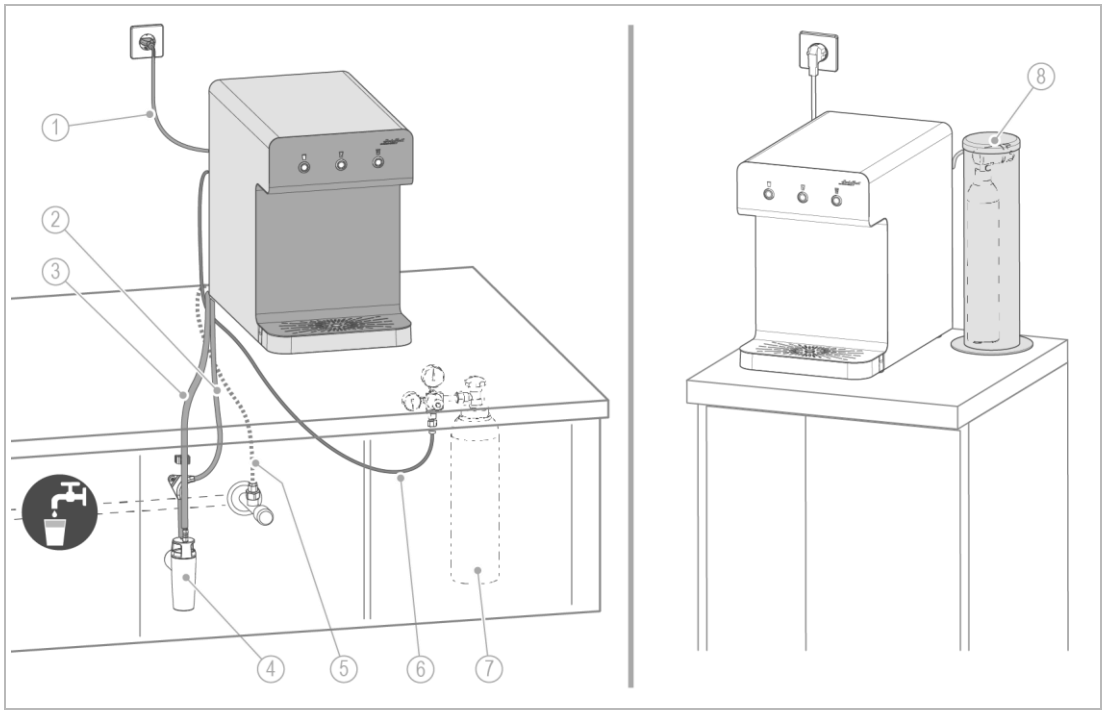
► Protect the product from the following impacts when storing it:

- Moisture, wetness
- Environmental impacts such as wind, rain, snow, etc.
- Frost, direct sunlight, severe heat exposure
- Chemicals, dyes, solvents and their vapours

5 Installation

The installation of the device represents a major intervention in the drinking water system and must be carried out by a qualified specialist only.

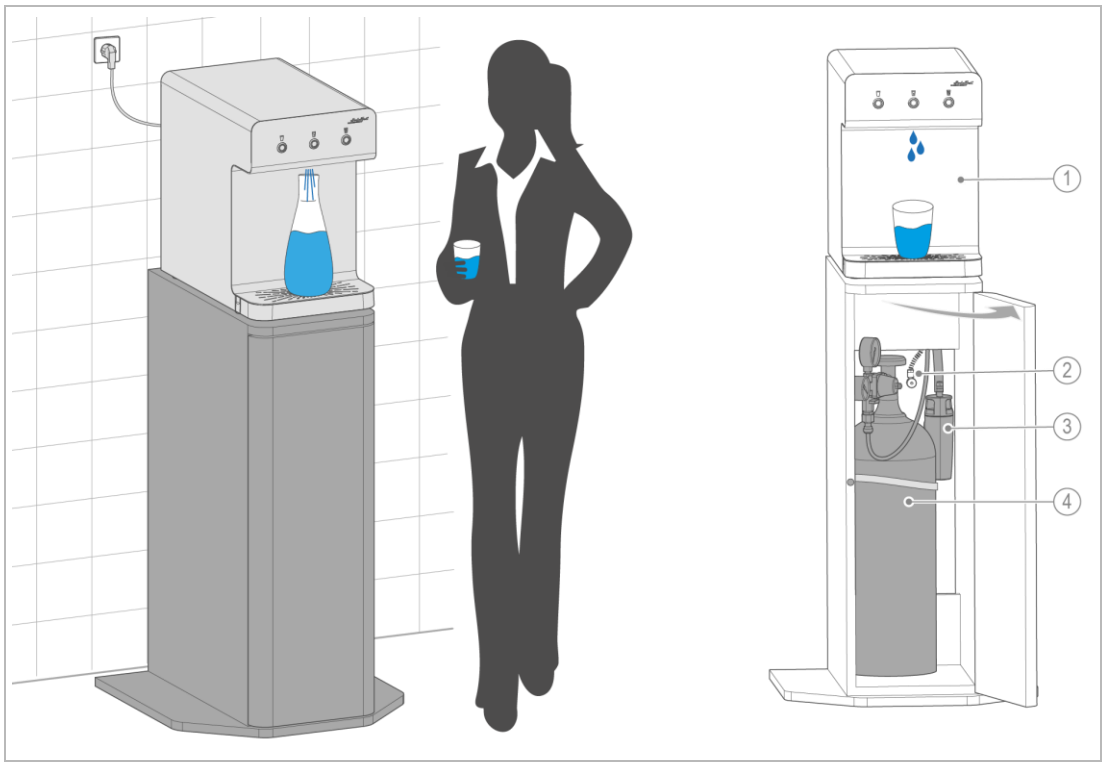
Installation example on kitchen top



	Designation
1	Mains cable with Schuko mains plug (1.5 m)
2	Flushing water hose from the flushing unit (optional)
3	Outlet hose from the dripping water pan (approx. 1.5 m)
4	Drain connection DN 50 acc. to DIN EN 1717
5	Connection hose DN 8 (flexible stainless steel braided hose 1.5 m) with 3/8" screw connection

	Designation
6	Transparent hose (approx. 1.8 m) for external CO_2 cylinder with CO_2 pressure reducer (max. 6 bar)
7	CO_2 cylinder with CO_2 pressure reducer and CO_2 line
8	optional CO_2 set small (with 425 g CO_2 cylinder)

Installation example on the base cabinet (optional)



	Designation
1	Drinking water dispenser SODA JET Office
2	angle valve on site Connection hose DN 8 (flexible stainless steel braided hose 1.5 m) with 3/8" screw connection
3	Drain connection DN 50 acc. to DIN EN 1717 for:

	Designation
4	Outlet hose from the dripping water pan (approx. 1.5 m) and flushing wastewater hose from flushing unit (optional) CO_2 cylinder with CO_2 pressure reducer and CO_2 line

See the mounting instructions (order no. 100100430000) for the installation of the drinking water dispenser on the base cabinet.

5.2 Requirements for the installation site

The drinking water dispenser may not be operated outdoors.

- The drinking water dispenser must not be placed directly at a water withdrawal point (e.g. directly next to a water tap) where splash water is to be expected.
- The sufficiently dimensioned installation surface of the device must be flat and horizontal, and have enough strength and load-bearing capacity to support the operating weight of the device.

The device feet may leave visible marks on the surface of the furniture.

- The installation site must be frost-proof and ensure the product's protection from chemicals, dyes, solvents and their vapours.
- Keep the minimum distance of 500 mm to radiators or other heat sources. The ambient temperature and the impact of heat radiators in the immediate vicinity must not exceed 30 °C.
- Keep a minimum distance of 50 mm between the wall and the back of the device.
- The installation site must be adequately illuminated and ventilated.
- For electrical connection a Schuko socket (type F, CEE 7/3) is required within a distance of approx. 1.2 m of the system.
  - The socket must not be located below the cold water connection.
  - The plug must be fitted in such a way that the device can be unplugged immediately and at all times in the event of malfunctions or maintenance work.

5.2.1 Requirements for the water supply

- The quality of the incoming drinking water must comply with the valid German Drinking Water Ordinance.
- The drinking water must not contain any impurities and suspended solids.
- The drinking water must have a conductivity of ≥ 100 µS/cm.
- If the water hardness is ≥ 15 °dH, we recommend installing a water softener.
- A filter with a pore size of at least 100 µm must be installed in the water supply network.
- The water feed line must thoroughly be flushed and, if necessary, cleaned before connecting the device.
- A 3/8" angle valve is required for the water connection within a range of up to 1.2 m from the installation site.
- The drinking water dispenser should only be connected to well-flown-through water pipes without any longer periods of stagnation.
- The connection between the building installation and the drinking water dispenser should be as short as possible.

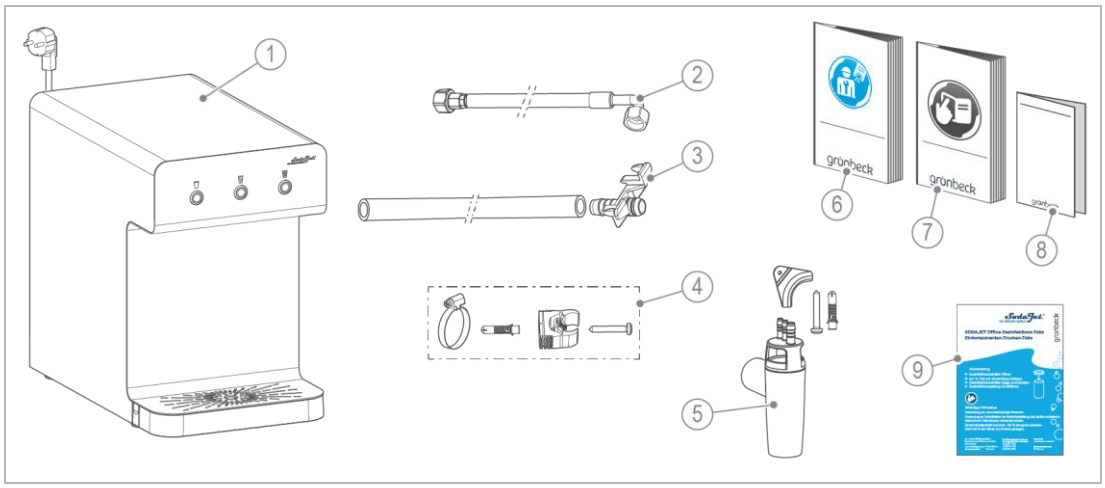
- The device is connected to the water supply system by means of removable hose kits.
  - Only use the hose kit included in the scope of delivery.
  - Replace old, damaged hose kits - old hose kits must not be reused.

5.2.2 Requirements for the installation room

Important requirements for handling compressed gas cylinders must be observed (refer to chapter 2.2.1)

- The installation room must be suitable for the CO_2 cylinder used.
- Alternatively, a monitored technical ventilation system must exist.
- If this is not possible, a gas warning system for CO_2/lack of oxygen must be installed to protect the installation room.

5.3 Checking the scope of supply



	Designation
1	SODA JET Office Standard or SODA JET Office with flushing unit (optional)
2	connection hose for drinking water with 3/8" screw connection and seals
3	Drain connection with hose adaptor [1] for dripping water pan and outlet hose
4	Accessories for fixing the outlet hose

	Designation
5	Drain connection DN 50 acc. to DN EN 1717 with fastening material
6	Operation log
7	Operation manual
8	Quick reference manual
9	Disinfection kit

► Check the scope of supply for completeness and damage.

1) The additional outlet hose adaptor is supplied as a spare part.

5.4 Water installation

5.4.1 Preliminary work

- If the device was transported lying down, it must be stored upright for at least 24 h (refer to chapter 4.2).

► After unpacking, allow the unit to acclimatise at the installation site for at least 1 hour.

» Possible moisture precipitation on electronic components can dry off.

» The coolant in the cooling unit can settle.

► Place the device on the intended surface with 2 people.

► When moving the device, ensure that the furniture surface (e.g. kitchen top) is not damaged (refer to chapter 4.2).

WARNING Contaminated drinking water due to stagnation

- Infectious diseases

► Before connecting the water feed line to the device, flush it at maximum flow for several minutes.

NOTE Dirty drinking water in the feed line

- Impurities, corrosion particles and organic substances in the feed line can damage the device.

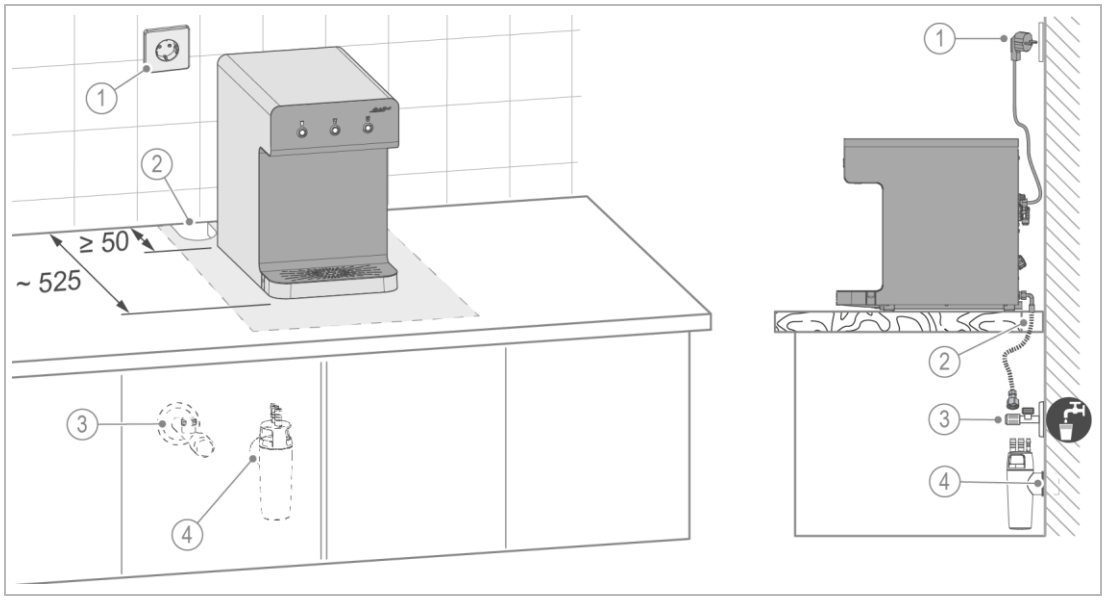
► Before connecting the feed line to the device, flush it at maximum flow for several minutes.

Recommendation:

► To protect the installation site from water damage, install a commercially available water stop on the angle valve on site.

The water stop automatically switches off the water supply in the event of a fault.

5.4.2 Setting up and connecting the device



	Designation
1	Schuko socket in the range of 1.2 m
2	Feed-through hole for: Connection line, drinking water, CO_2 line, outlet hose from the dripping water pan, flushing wastewater hose (optional)

	Designation
3	Water connection (angle valve 3/8")
4	Drain connection DN 50 acc. to DIN EN 1717

6. Place the device as near to the water connection as possible.
   a If necessary, extend the water feed line using a hose approved for drinking water according to DVGW W 270.

The device must be stable on the surface ensuring that it cannot tip over.

7. Make a feed-through hole on the tabletop.

The size of the feed-through hole depends on the design of the device (with/without flushing unit) and the number of connection hoses.

   a If necessary, use the optional line feed-through (refer to chapter 3.4).

For mounting the line feed-through, refer to the mounting instructions (order no. 100096310000).

8. Keep the minimum distance of ≥ 50 mm from the wall.

NOTE High temperature in the device due to an inadequate air exchange rate

- Functional failure of the cooling unit
- The thermal circuit breaker switches off the cooling unit automatically if the operating temperatures are reached.

► Keep the ventilation openings on the back of the device clear.

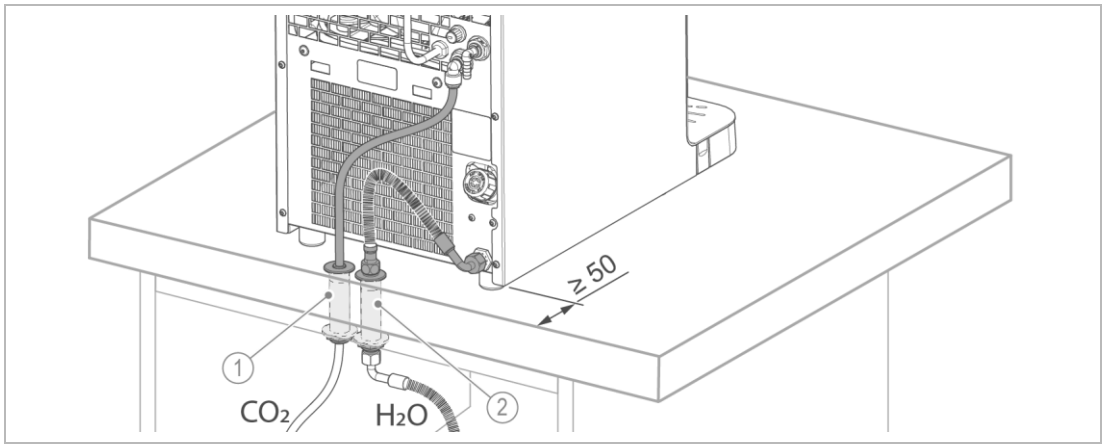
» Warm exhaust air from the cooling unit is discharged. The maximum ambient temperature of 30 °C must not be exceeded.

9. Check whether the socket is still readily accessible after placing the device.

Portable multiple sockets or power supply units must not be placed at the back of the device.

5.4.2.1 Table feed-through set (optional)

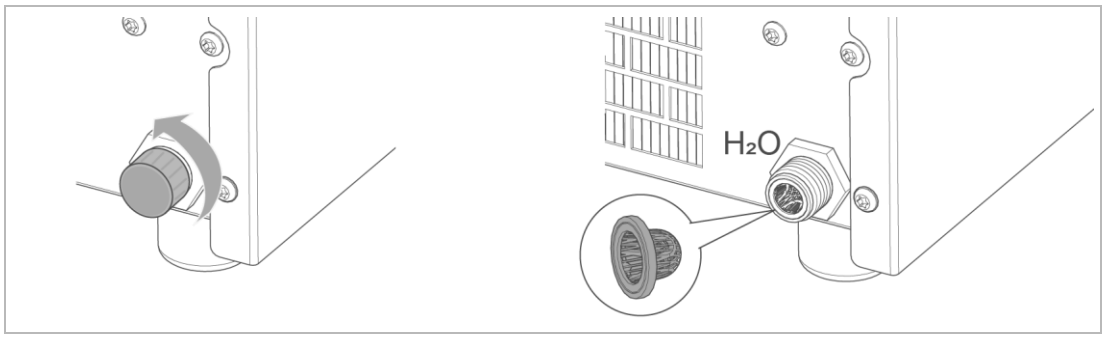
For easy mounting above and below the tabletop for the water inlet and the CO_2line, you can use the table feed-through kit (refer to chapter 3.4).



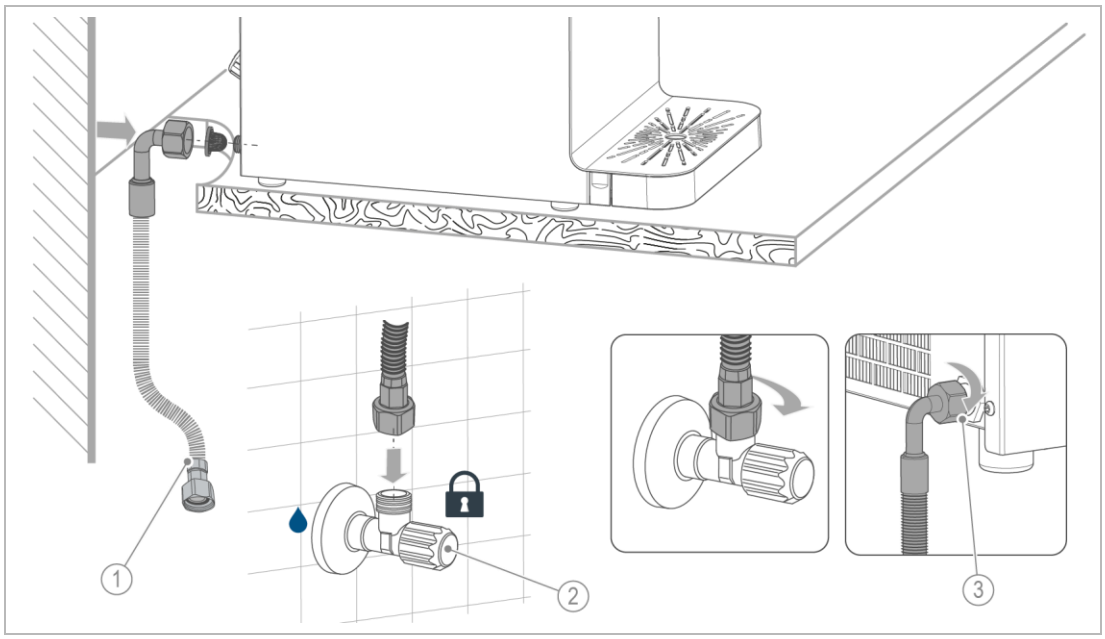
	Designation		Designation
1	Feed-through for CO_2 line	2	Feed-through for drinking water (H_2O)

For mounting the table feed-through kits, see the mounting instructions (order no. 100096630000).

5.4.3 Connecting the device to the water supply



1. Unscrew the water connection cap.
   a Keep the cap in a safe place.
2. Check whether the cap sieve is inserted.



	Designation
1	Connection hose DN 8 with 3/8” screw connection
2	Angle valve with 3/8" screw connection (to be provided by client)

	Designation
3	Water connection on the device (3/8” male thread)

3. Guide the connection hose through the feed-through hole in the tabletop.

NOTE Incorrect routing of the connection hose

- The connection hose can be damaged when kinked or under tension, and this can lead to consequential damage.

► Route the connection hose free of kinks and tension.

4. Mount the connection hose with the 90° elbow connection to the water connection on the device.
5. Mount the other end of the connection hose to the on-site angle valve, or to the intermediate on-site water stop.

5.4.4 Connecting the device to the drain

You can mount the supplied DN 50 drain connection according to DIN EN 1717 on the dripping water pan and route the outlet hose to the drain.

The dripping water is discharged directly to the drain. The dripping water pan does not need to be emptied.

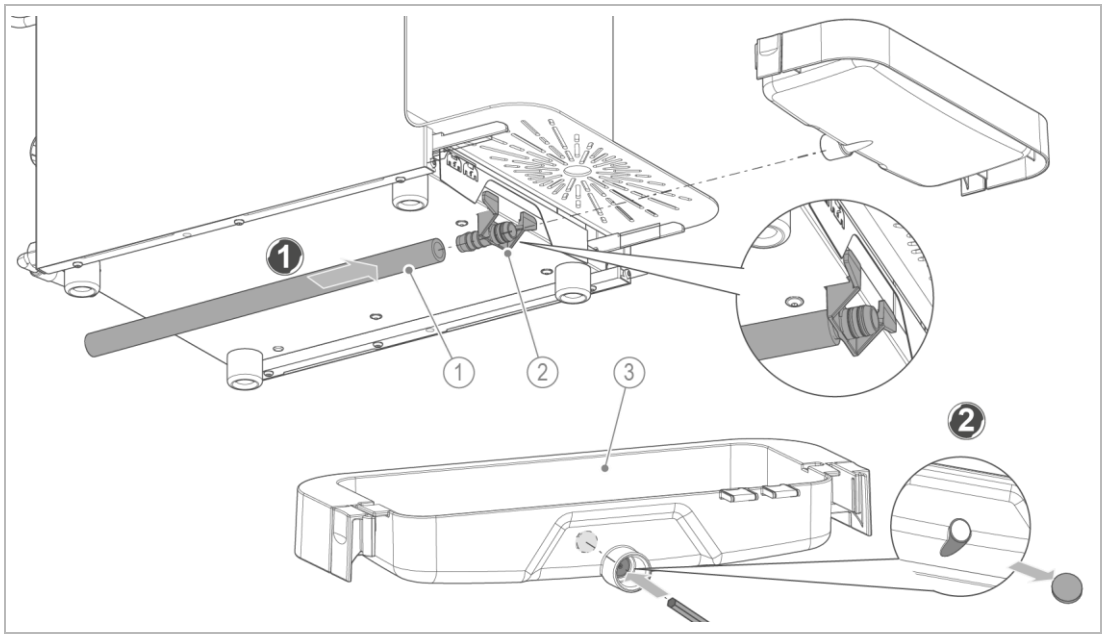
The installation of the drain connection is mandatory for SODA JET Office with flushing unit. The flushing water is fed into the drain when the device is flushed.

Optionally, you can additionally connect the dripping water pan to the drain.

The additional hose adaptor on the outlet hose is included as a spare part in case the hose adaptor is faulty when mounting.

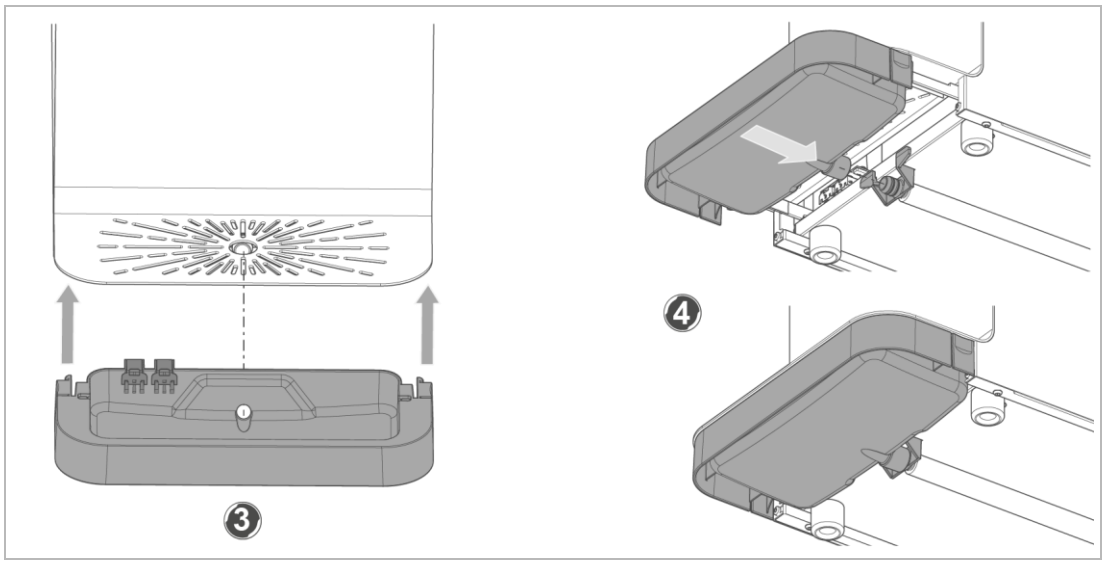
► Mount the drain connection to the dripping water pan as follows:

5.4.4.1 Preparing the dripping water pan



	Designation		Designation
1	Outlet hose DN 13 (~ 1.5 m long)	3	Dripping water pan
2	Pre-assembled hose adaptor		

1. Push the outlet hose completely onto the hose adaptor on the device.
   a. Hold the hose adaptor against you when putting it on to prevent it from breaking off.
2. Break through the closed hole on the dripping water pan.
   a. Deburr the hole if required.

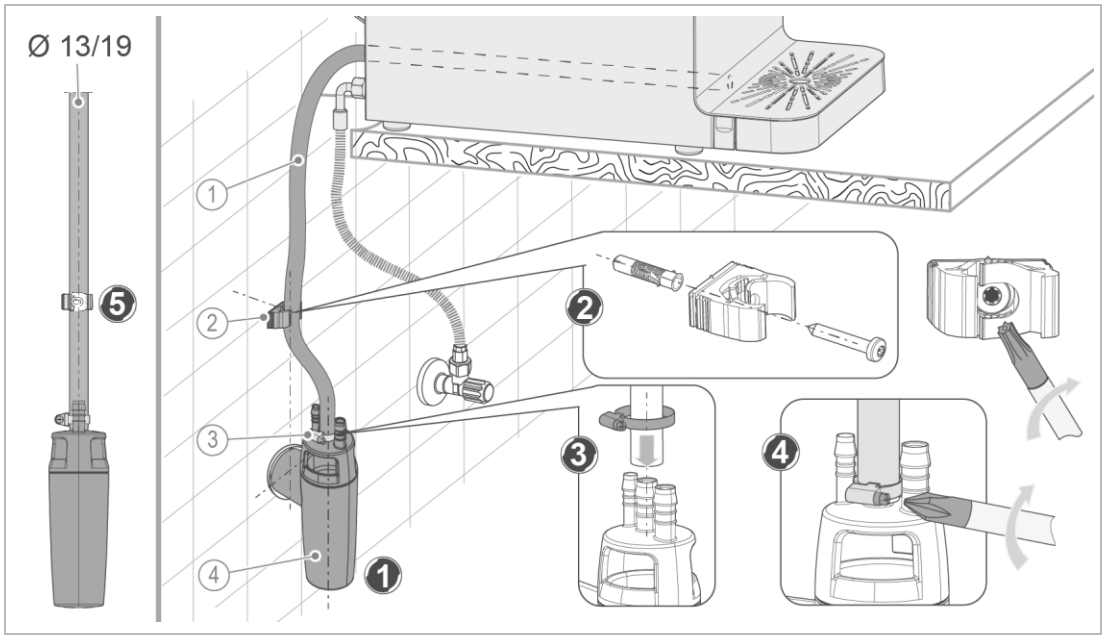


3. Insert the dripping water pan centrally under the drip tray cover plate.
4. Insert the dripping water pan until it clicks into place.

» The outlet hose is connected to the dripping water pan.

5.4.4.2 Connecting the dripping water pan to the drain connection

The outlet hose must be laid free of kinks and tension and with a downward slope to the drain.



	Designation
1	Outlet hose from the dripping water pan
2	Fixing clamp with dowel SX 6x30 and flat head screw TORX 4.8x32

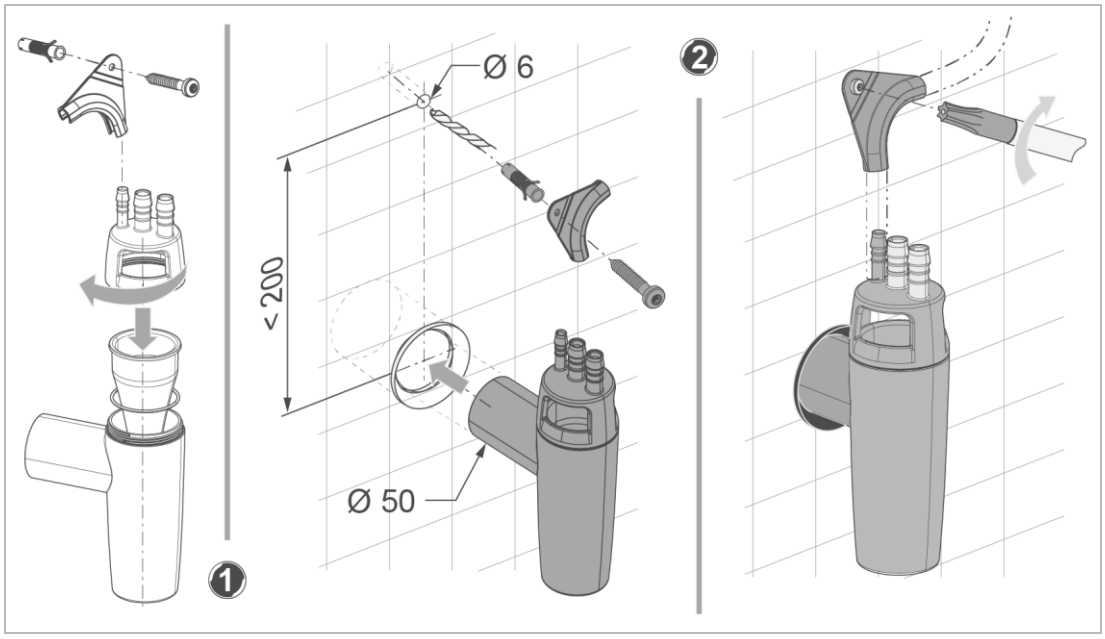
	Designation
3	Worm drive hose clip 16-27/9
4	Drain connection DN 50

1. Pre-mount the drain connection and fix it in the on-site sewage pipe.
2. Determine the position of the fixing clamp for the outlet hose - arrange it vertically in the centre above the drain connection.
   a Secure the fixing clamp with a dowel and flat head screw.
3. Push the outlet hose onto the centre connecting piece (Ø 12) of the drain connection.
4. Fix the outlet hose to the connecting piece with the worm drive hose clip.
5. Align the drain connection vertically and insert the outlet hose firmly into the fixing clamp.

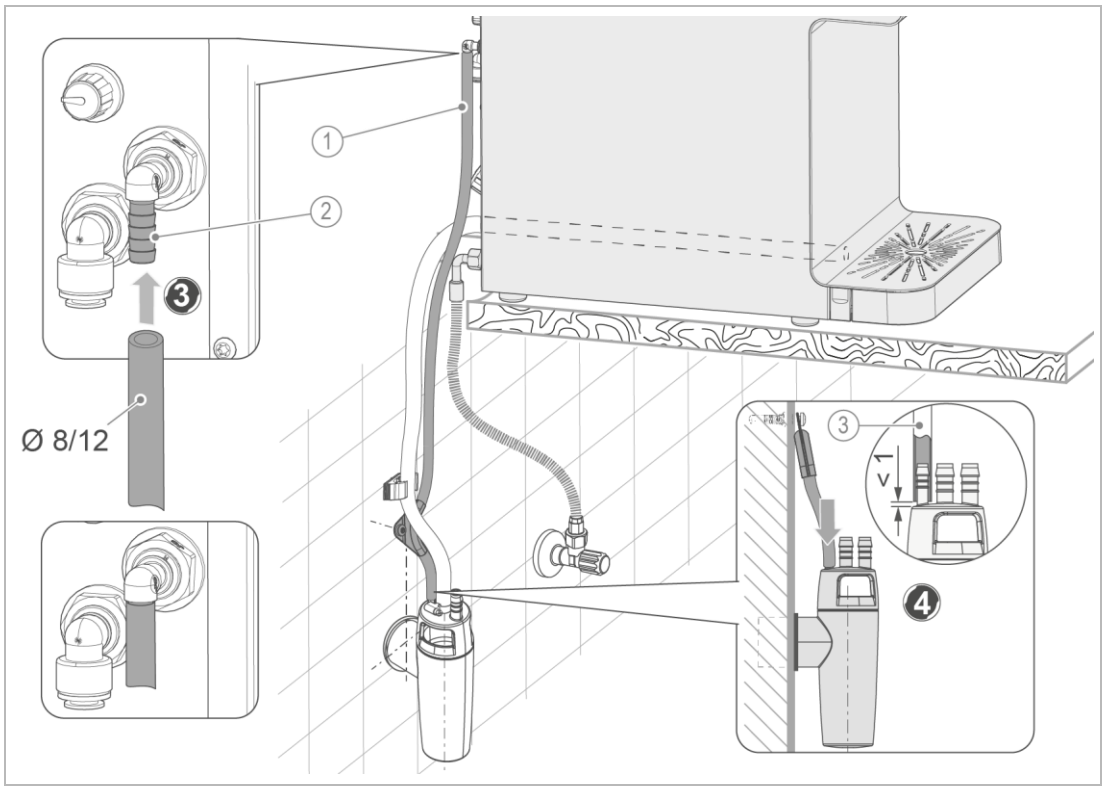
5.4.5 Connect SODA JET Office to the flushing wastewater hose

The installation of the drain connection is mandatory for SODA JET Office with flushing unit.

5.4.5.1 Fixing the drain connection



1. Pre-mount the drain connection and fix it in the on-site sewage pipe.
2. Determine the position of the fastening angle for the flushing wastewater hose.
   a Secure the fastening angle with a dowel and flat head screw.
   b Ensure that the drain connection is vertical.



	Designation		Designation
1	Flushing wastewater hose	3	Connecting piece to the drain connection
2	Connection for flushing unit		

3. Connect the flushing wastewater hose to the connecting piece of the connection for the flushing unit.
4. Put the flushing wastewater hose on the smallest connecting piece (Ø 8) of the drain connection.

► Check that the flushing water drains properly to the drain.

► Optionally connect the dripping water pan to the drain connection (refer to chapter 5.4.4.2).

5.5 Electrical installation

The device features a permanently connected mains cable with Schuko mains plug (1.5 m from the back of the device).

- Portable multiple sockets or power supply units must not be placed at the back of the device.
- The socket must not be located below the cold water connection.
- The plug must be fitted in such a way that the device can be unplugged immediately and at all times in the event of malfunctions or maintenance work.

NOTE Incorrect routing of the mains cable

- The mains cable could suffer damage. This can lead to a short-circuit.

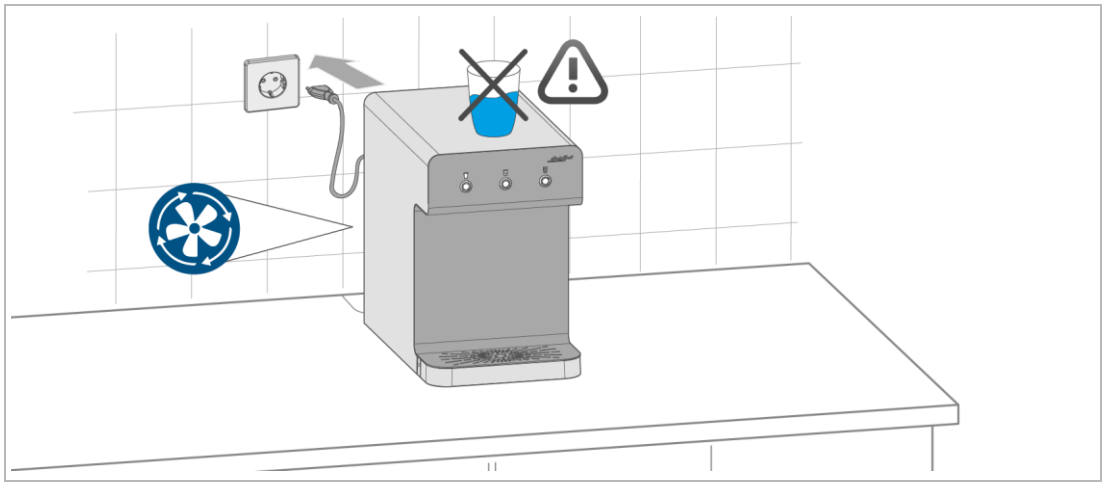
► Route the mains cable in a way that it is not crushed, kinked, entangled and forms knots.

► Ensure that the mains cable does not come into contact with other lines such as the water pipe or outlet hose.

► Do not wind up the mains cable.

5.5.1 Connecting the device to the power supply

► When positioning the device on the wall, keep a minimum distance of at least 50 mm.



1. Check that no objects, such as glasses, have been placed on the device.
2. Plug the mains plug into the 230 V socket.

» The cooling unit starts working.

5.6 Connecting the compressed gas cylinder (CO_2 cylinder)

The connection and installation of a compressed gas container may only be carried out by a qualified specialist.

Observe the operating instructions for handling compressed gas containers (refer to chapter 2.2.1).

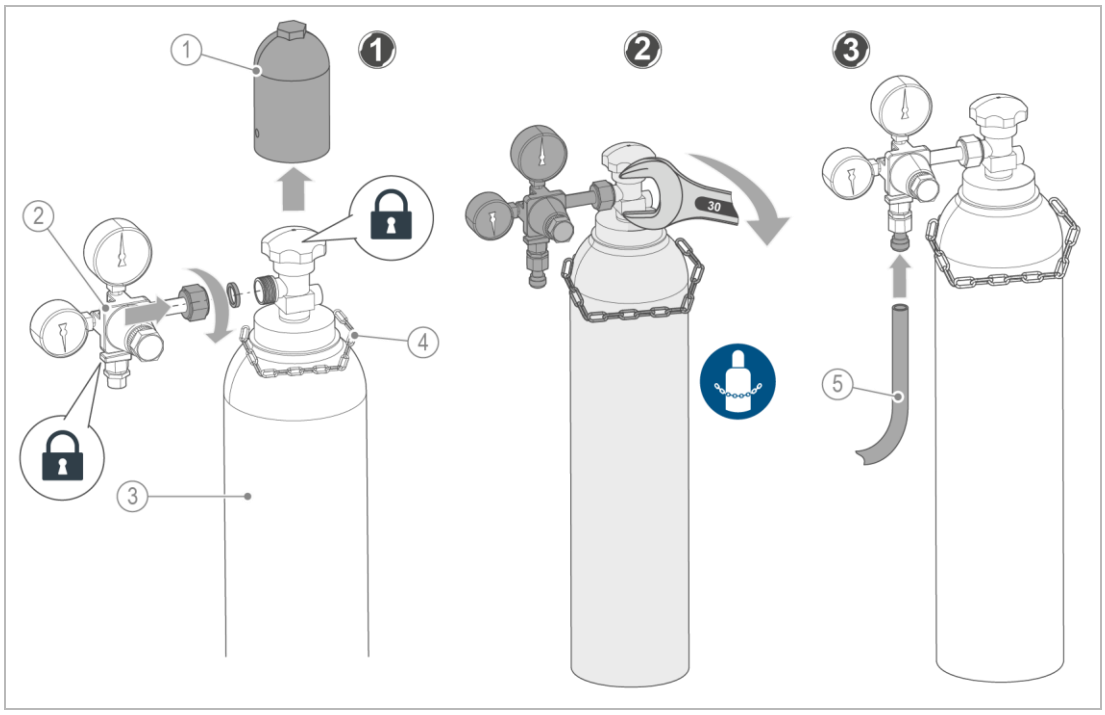
WARNING Escaping CO_2 gas due to the incorrect routing of the CO_2 line

- Inhalation suffocation
- ► Route the CO_2 line in such a way that it cannot come into contact with heat sources, moisture, oil, sharp objects and sharp edges.
- ► Check that the CO_2 line is not kinked or pinched.

If an increased CO_2 concentration is suspected:

- Do not inhale the CO_2 gas
- Leave the danger area
- Ventilate the installation room sufficiently

5.6.1 Pre-install the pressure controller



	Designation
1	Protective cap
2	CO_2 pressure reducer with pressure relief valve
3	CO_2 cylinder

	Designation
4	Safety chain or safety belt
5	CO_2 line

1. Place the CO_2 cylinder in a stable position in the installation room and secure it using the safety chain or a safety belt.

   a Remove the protective cap, if present.

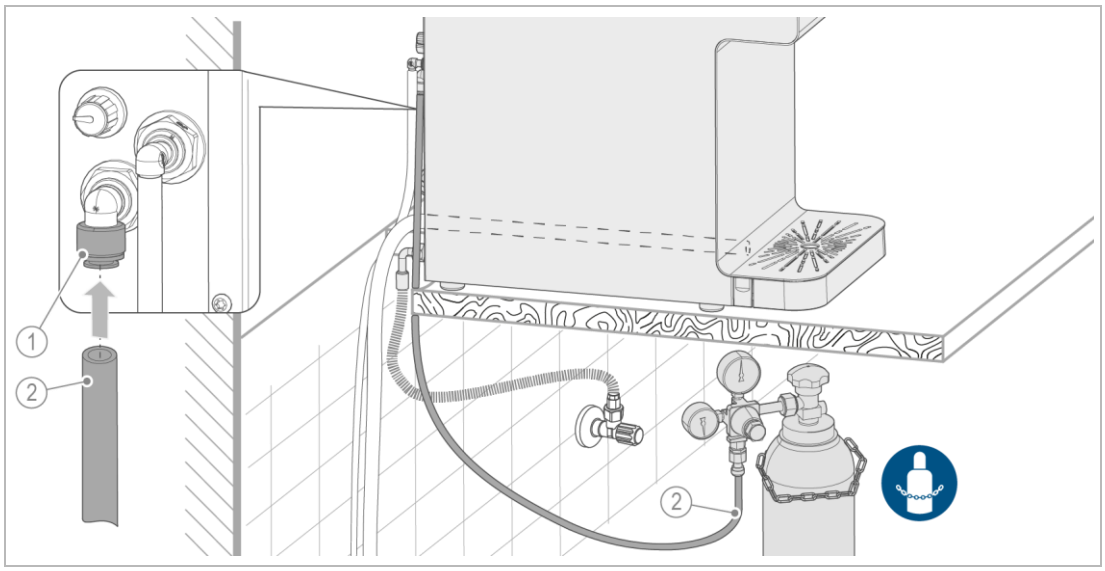
2. Screw the union nut (with inserted sealing ring) of the CO_2 pressure reducer to the connection of the CO_2 cylinder.

» The CO_2 outlet points downwards.

3. Connect the CO_2 line with the connection of the pressure reducer.

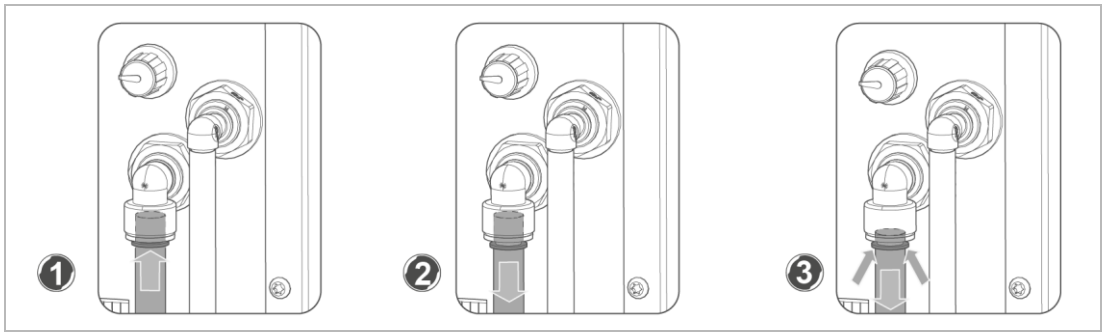
» The pressure controller and the connection of the connection hose must be tight.

5.6.2 Connect the CO_2 line to the device



	Designation		Designation
1	CO_2 connection	2	CO_2 line

► Connect the CO_2 line to the CO_2 connection of the device as follows:



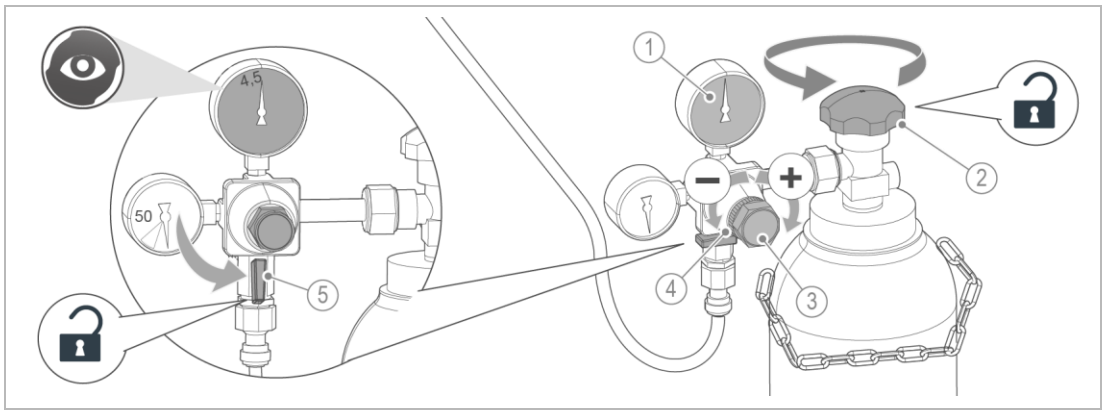
1. Insert the CO_2 line as far as possible.

2. Check the tight fit of the CO_2 line – briefly pull on the CO_2 line.

» The connection ring blocks the CO_2 line against being pulled out.

3. Loosen the plug-in connection as follows:
Press and hold the ring while pulling on the CO_2 line at the same time.

5.6.3 Setting the CO_2 pressure



	Designation
1	Pressure gauge for outlet pressure
2	Cylinder valve
3	Pressure adjusting screw

	Designation
4	Lock nut
5	Shut-off valve

1. Open the shut-off valve on the pressure controller - turn it to vertical position.
2. Open the cylinder valve of the CO_2 cylinder.

» The device carbonator fills up with CO_2 gas.

3. Set the outlet pressure (preferably 4.5 bar, but ≤ 6.0 bar).
   - **a** Loosen the lock nut.
   - **b** Reduce the CO_2 pressure – turn the pressure adjusting screw counter-clockwise.
   - **c** Increase the CO_2 pressure – turn the pressure adjusting screw clockwise.
   - **d** Fix the setting – tighten the lock nut
4. Read the set outlet pressure on the pressure gauge.

Any change of location of the compressed gas container must be performed by a qualified person and recorded in the operation log.

6 Start-up

The work below must be carried out by qualified specialists only.

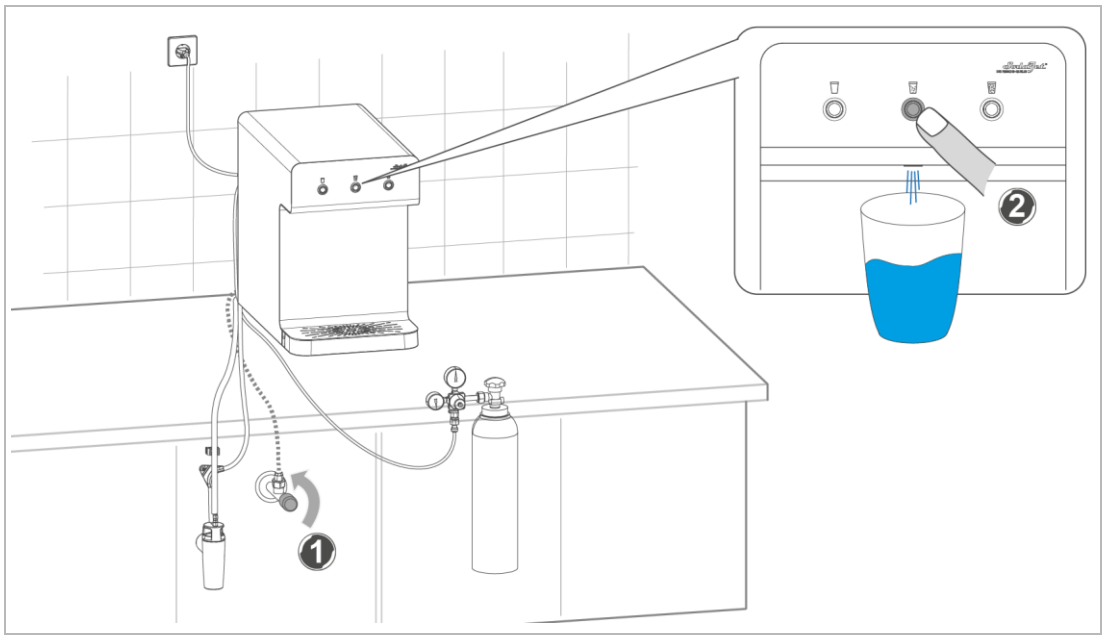
Recommendation: The initial start-up of the product should be carried out by the technical service personnel.

6.1 Releasing the water supply

The water inlet pressure must not exceed 6 bar. Recommended 4.0 bar.

If the inlet water pressure of at least 2.5 bar is not adequately available or not constant, a fault message can occur.

► Ensure that the water can flow into a collection container or to the drain.



1. Open the angle valve of the water supply slowly.
2. Press and hold the MEDIUM dispense button.
3. Let the water run in for approx. 3 minutes.

» The device is ventilated.

The water conductivity must be at least 100 µS/cm.

► If the water is treated (e.g. by upstream osmosis), check the water conductivity and, if necessary, adjust the water blending accordingly.

6.2 Disinfecting and flushing the device

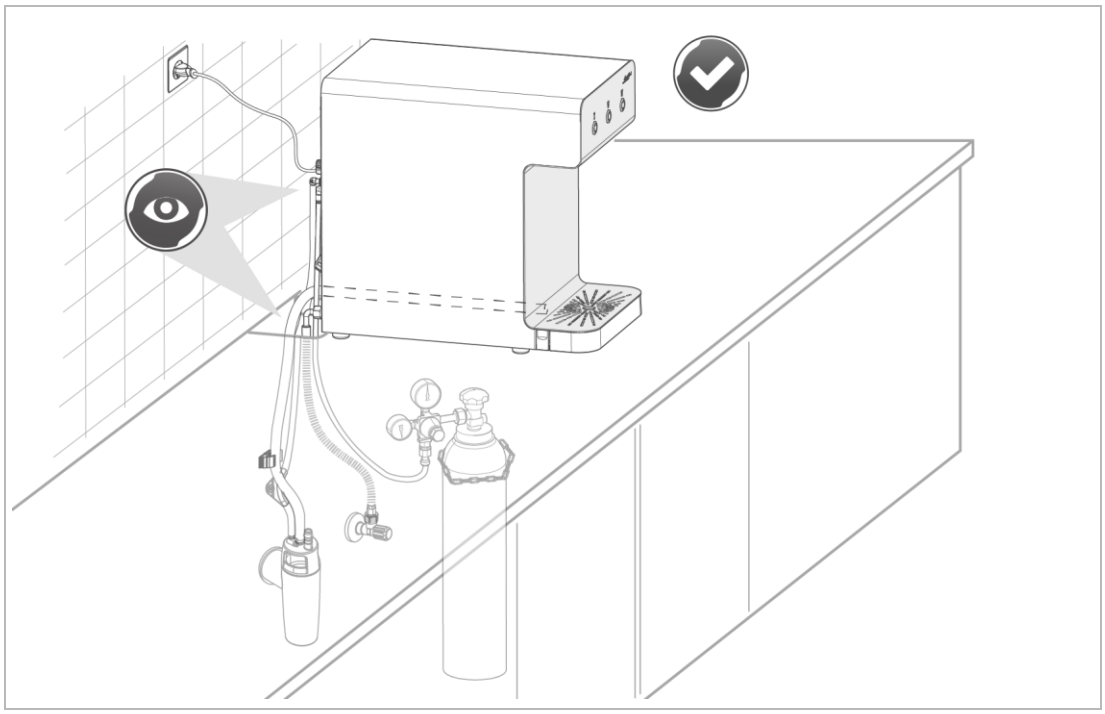
At the end of start-up, we recommend disinfecting the device.

► Carry out disinfection (refer to chapter 8.5).

► Carry out flushing (refer to chapter 7.3).

6.3 Checking the device

1. Check the device and the lines carrying water and CO_2 for leaks.
2. Check that the wastewater flows from the dripping water pan to the drain.
3. Ensure that the device does not emit any loud noises.

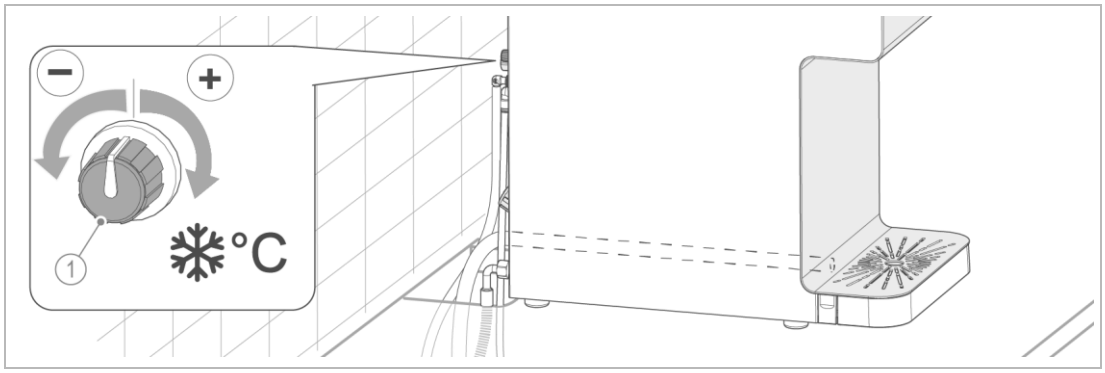


4. Check that the CO_2 cylinder is secured against falling over and that the CO_2 pressure is set correctly (refer to chapter 5.6.3).
5. Take a water sample based on the following criteria:
   - Temperature
   - CO_2 concentration
   - Taste
6. Set the desired cooling temperature (refer to chapter 6.3.1).
7. Complete the start-up log in the operation log.

6.3.1 Setting the cooling temperature

The lower the set water temperature, the higher the carbon dioxide content and the energy consumption of the device.

- By setting the cooling temperature higher, the device's energy consumption can be reduced.



	Designation
1	Rotary knob on the thermostat

► Proceed as follows to set the desired cooling temperature:

a Turn the rotary knob to the right in the direction of (+) - The water gets colder.

b Turn the rotary knob to the left in the direction of (-) - The water gets warmer.

► Check the water temperature after approx. 15 minutes.

6.4 Handing over the product to the owner/operating company

- ► Explain to the owner/operating company how the product works.
- ► Use the manual to brief the owner/operating company and answer any questions.
- ► Inform the owner/operating company about the need for inspections and maintenance.
- ► Hand over all documents to the owner/operating company for keeping.

6.4.1 Disposal of packaging

- ► Dispose of packaging material as soon as it is no longer needed (refer to chapter 11.2).

6.4.2 Storage of accessories and consumables

- ► Keep the supplied accessories in a safe place.
- ► Ensure that the necessary consumables are available or are re-ordered in time (refer to chapter 8.6).

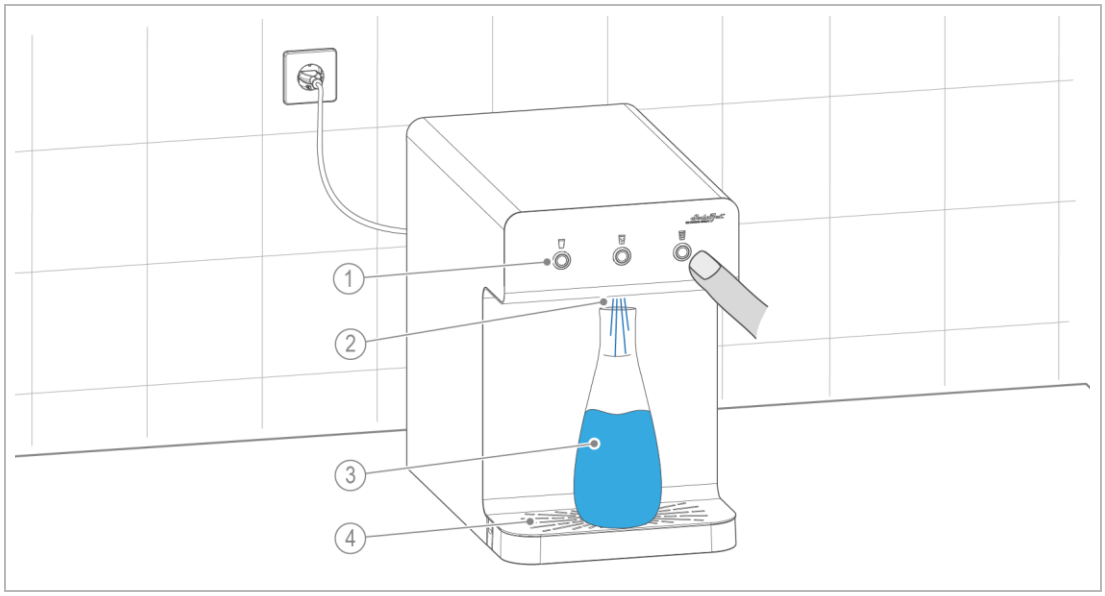
7 Operation/handling

The device does not have a main switch. The device can only be switched off by disconnecting the power plug from mains.

Drinking water is dispensed using three dispense buttons.

Symbol	Explanation
	STILL (still water, without carbon dioxide)
	MEDIUM (slightly sparkling, with low carbon dioxide concentration)
	CLASSIC (strongly sparkling water, with maximum carbon dioxide concentration)

7.1 Operating concept



	Designation		Designation
1	Dispense buttons with LED	3	Collection container e.g. glass or pitcher
2	Outlet	4	Placement area with drip tray cover plate

1. Place a collection container in the centre of the placement area.
   a As an alternative, hold the collection container up to avoid splashing.
2. Press and hold a dispense button until the desired water volume has been reached.

» Water dispensing stops when you release the dispense button.

At full cooling capacity for CLASSIC and MEDIUM, observe the tapping time (max. 5 minutes) and operational break time (min. 10 minutes). This corresponds to a dispensing capacity of 30 l/h for CLASSIC and MEDIUM water.

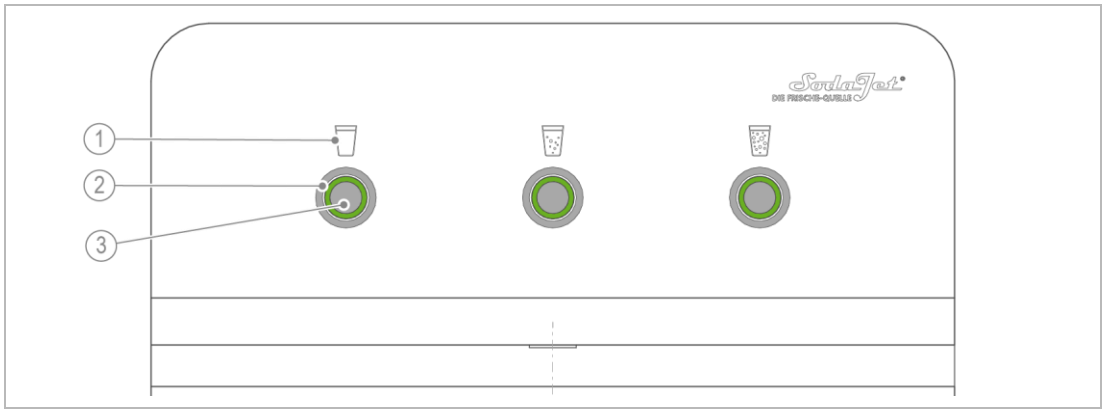
For STILL water continuous tapping at full cooling capacity is possible for up to 90 l/h.

After longer downtimes, splashing may occur at the start of tapping.

After tapping from MEDIUM or CLASSIC the pump continues to run to fill the carbonator. CO_2 flow noises may occur during and after tapping.

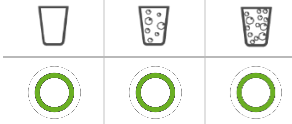
► Rectify any existing fault (refer to chapter 9).

7.1.1 Function and LED status signals



	Designation
1	Symbol
2	LED ring

	Designation
3	Dispense button

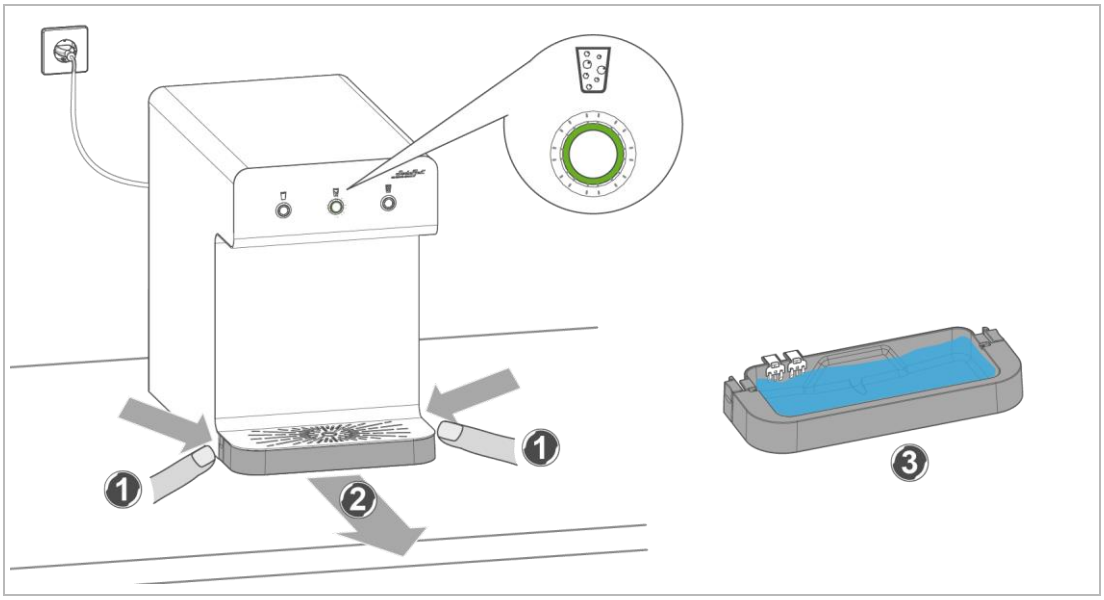
Operating mode	Dispense buttons/LEDs	Explanation
Standby		STILL, MEDIUM and CLASSIC water dispensing possible • The LEDs light up continuously
Normal operation		STILL water dispensing

Operating mode	Dispense buttons/LEDs			Explanation
	○			• The dispense button LED lights up
		⚲		MEDIUM water dispensing • The dispense button LED lights up
		○		
			⚲	CLASSIC water dispensing • The dispense button LED lights up
			○	
Flushing	▽		⚲	for optional flushing unit • Flushing during disinfection or after prolonged standstill ► press and hold both dispense buttons for > 3 sec.
	○		○	
Fault signal 1	○	○	○	Lack of water – water pressure to low • STILL LED flashing • STILL water dispensing is possible
Fault signal 2	○	○	○	Dripping water pan – is full or no contact • MEDIUM LED flashing
Fault signal 3	○	○	○	CO_2 pressure – low, compressed gas cylinder empty • MEDIUM LED flashing
Collective fault	○	○	○	Internal error • Flashing LEDs

7.2 Emptying the dripping water pan

Only required if no drain connection hose has been installed.

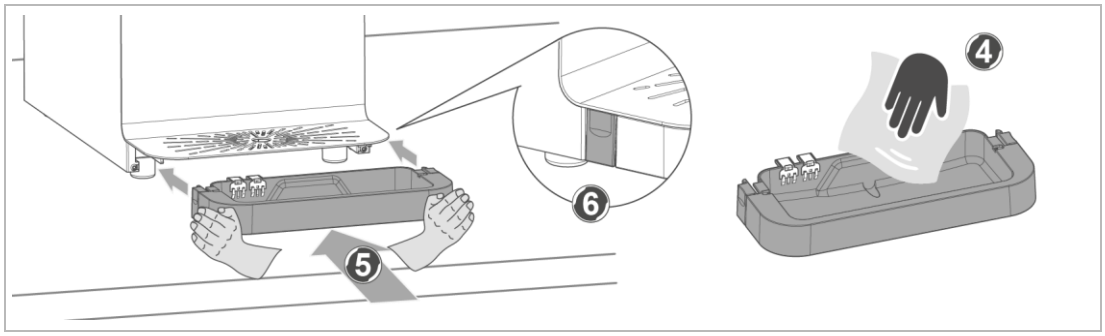
► Empty the dripping water pan as follows:



1. Press and hold the side locking mechanisms.
2. Pull out the dripping water pan.

3. Empty the dripping water pan.
4. Clean and dry the dripping water pan.
   Ensure that the contacts are not damaged.

The dripping water pan can be cleaned in the dishwasher.



5. Insert the dripping water pan centrally under the drip tray cover plate.
6. Insert the dripping water pan until it clicks into place.

» The dripping water pan has been emptied.

» The MEDIUM LED stops flashing.

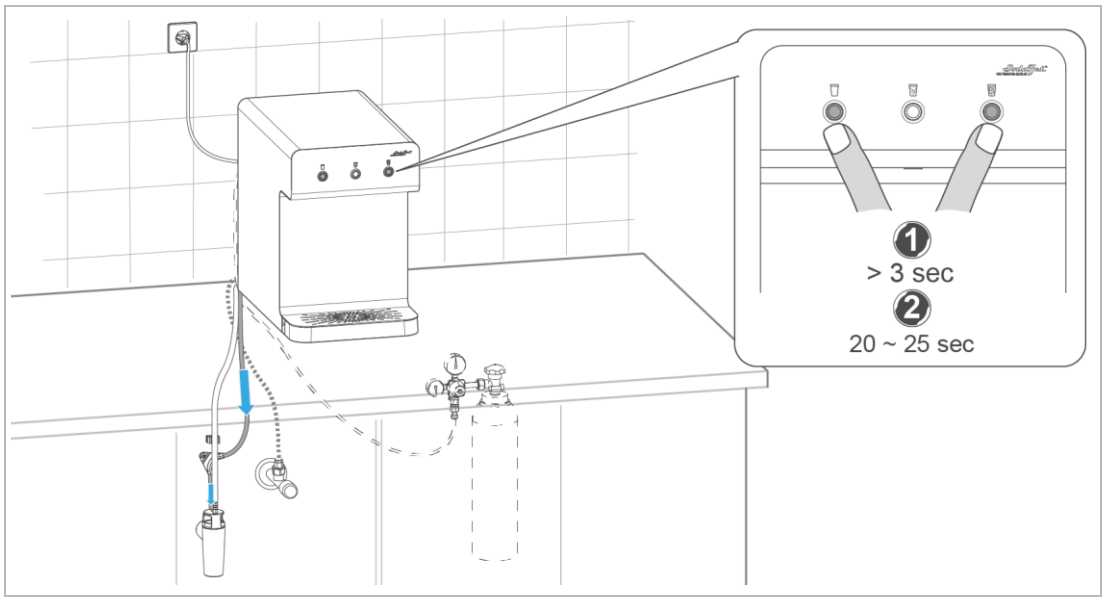
7. Check for function.

7.3 Perform flushing

Flushing of the device must be carried out after disinfection and after longer downtimes ≥ 3 days.

- On the device **with** flushing unit (optional), flushing is carried out automatically.
- After disinfection, the flushing process must be started manually.

► Perform manual flushing as follows:



1. Press the STILL and CLASSIC dispense buttons at the same time for longer than 3 seconds.

» The flushing process starts.

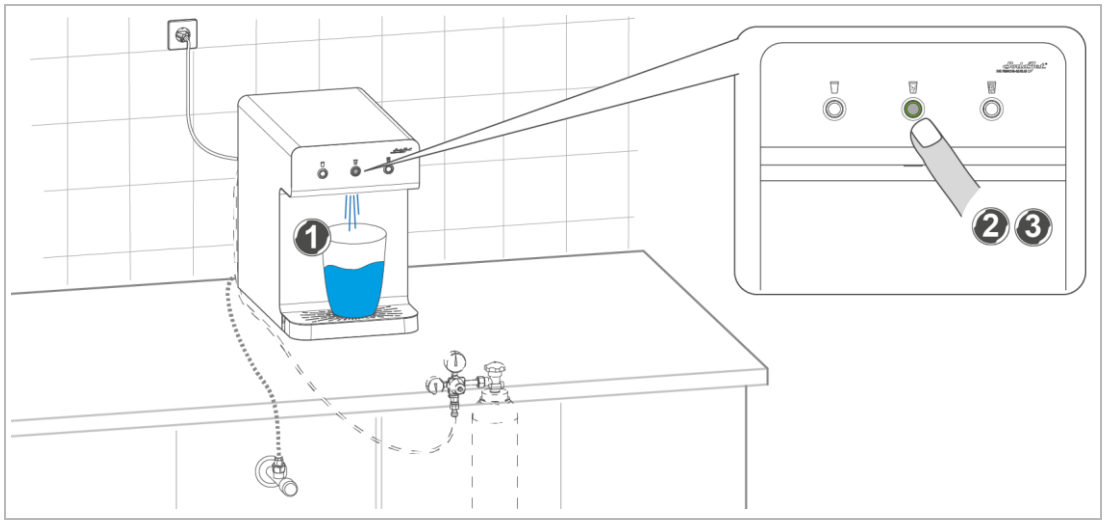
2. Hold the dispense buttons approx. 20 - 25 seconds.

» The flushing water is drained into the drain via the flushing unit.

3. Release the dispense buttons to finish the flushing process.

► Carry out a functional check and take a water sample.

- For the device **without** a flushing unit, you need a container to collect the flushing water.

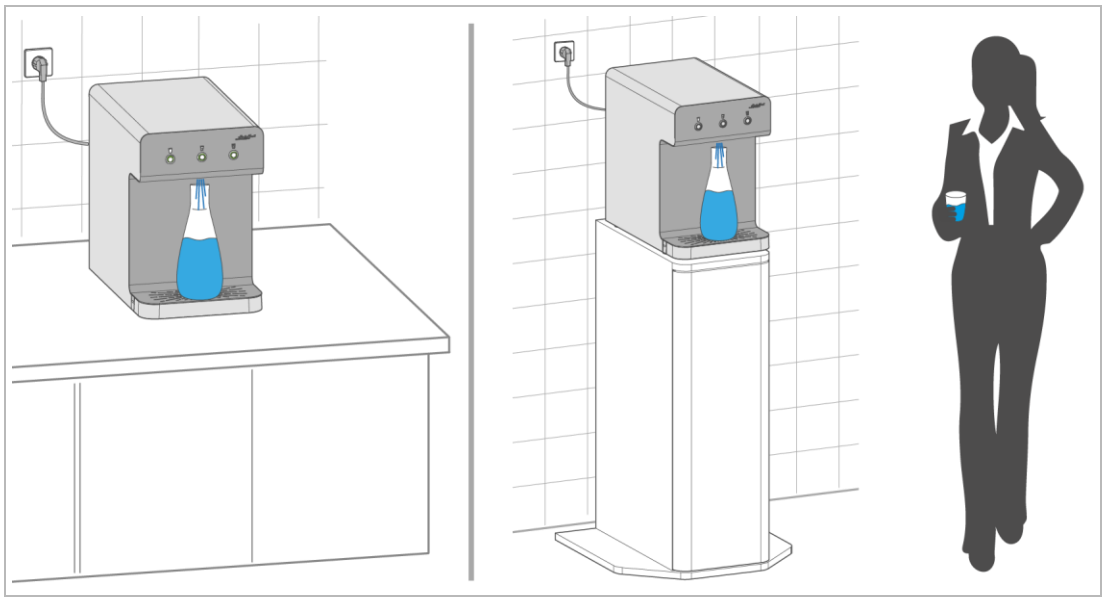


1. Place a collection container under the outlet.
2. Press the MEDIUM dispense button.
3. Keep the MEDIUM dispense button pressed until approx. 1 - 2 litres of water have been dispensed.

» The flushing water is collected in the collection container.

4. Interrupt the flushing process and empty the collection container if necessary.
5. Release the dispense button to finish the flushing process.

► Carry out a functional check and take a water sample.



7.4 Changing the compressed gas cylinder (CO_2 cylinder)

In the event of fault signal 3 water can continue to be withdrawn.

Observe the operating instructions for handling compressed gas containers (refer to chapter 2.2.1).

Carry out the work below without any interruption.

► Do not leave the device before having completed these tasks:

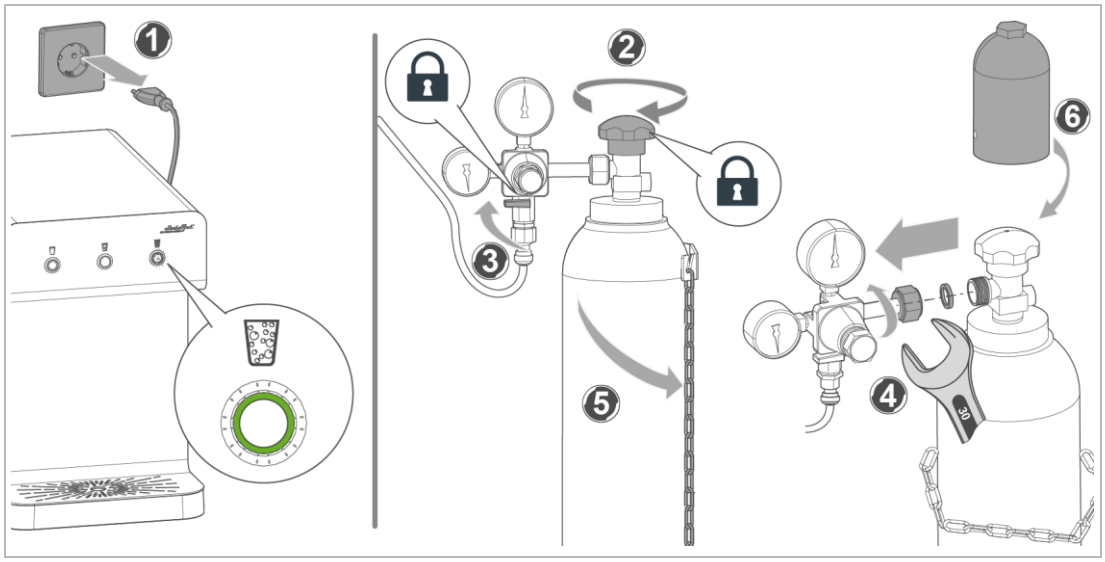
a Proper connection of the compressed gas cylinder

b Restart of the device

c Proper shutdown of the device in the event of a fault

► Change the CO_2 cylinder in the event of fault signal 3 as follows:

7.4.1 Removing the empty CO_2 cylinder



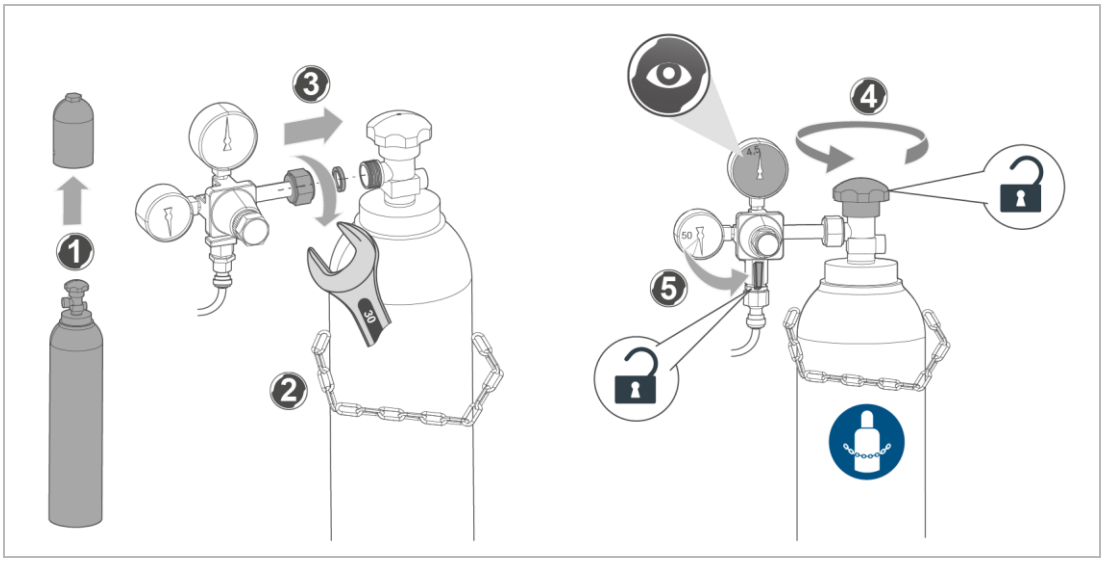
1. Disconnect the device from the power supply - remove the mains plug.
2. Close the cylinder valve of the CO_2 cylinder.
3. Close the shut-off valve of the CO_2 pressure reducer.
   a Operate the pressure relief valve on the pressure controller, if there is one.
4. Loosen the sealing ring union nut of the pressure reducer – the pressure reducer should not turn with it.
5. Loosen the safety chain or the safety belt.
6. Mount the protective cap and carefully remove the empty CO_2 cylinder.

An empty CO_2 can be refilled and reinserted.

Information on storing CO_2 cylinders:

- Secure CO_2 cylinders against tipping over.
- The ambient temperature should not exceed 50°C and the storage site should be well ventilated.
- Do not store any flammable gases or substances nearby.
- When handling CO_2 cylinders, ensure effective ventilation, especially in the floor area.

7.4.2 Inserting the full CO_2 cylinder

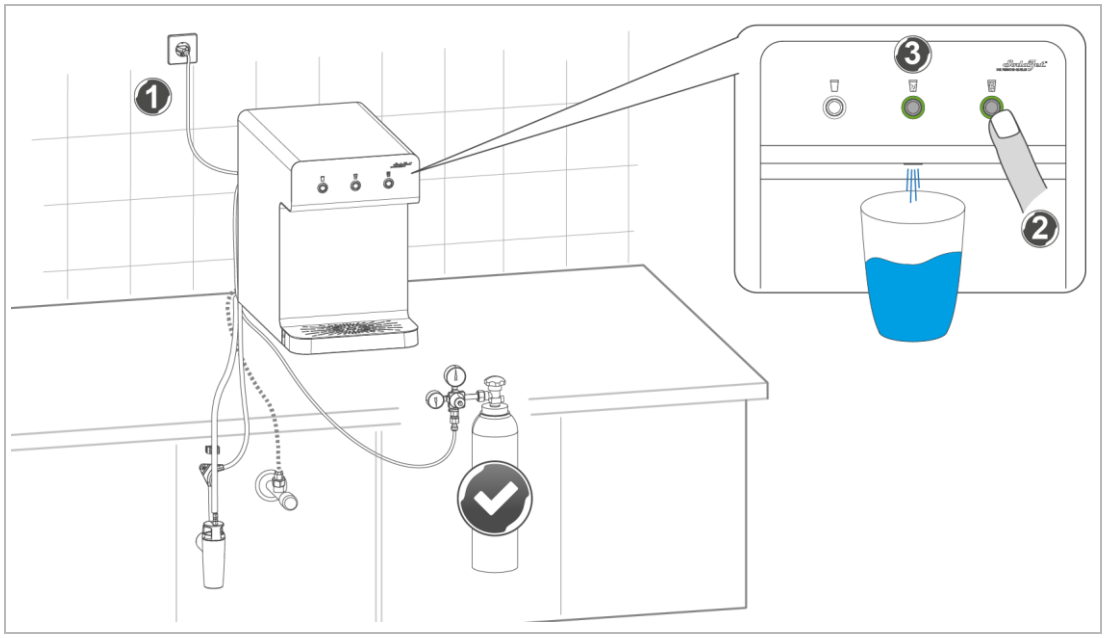


1. Prepare the new CO_2 cylinder and remove the protective cap.
2. Secure the CO_2 cylinder against falling over with a safety chain or safety belt.
3. Tighten the sealing ring union nut of the pressure reducer again – insert a new seal, if necessary.
4. Completely open the cylinder valve of the CO_2 cylinder and check for leaks.
5. Open the shut-off valve of the CO_2 pressure reducer.
6. Check the CO_2 line and connection points for leaks.
7. Check the set CO_2 pressure.

» The CO_2 pressure shown should be 4.5 bar max.

» The pressure of the cylinder shown should be 50 bar.

7.4.3 Restart after changing the cylinder



1. Plug in the mains plug.
2. Dispense approx. 1 l of CLASSIC water (with CO_2) and discard it.
3. Dispense MEDIUM and CLASSIC water and check a water sample for the criteria below:
   - Temperature
   - CO_2 concentration
   - Taste

» The new CO_2 cylinder is in operation.

Recommendation:

► Keep a separate documentation for the replacement of the compressed gas cylinders.

8 Maintenance and repair

Maintenance and repair includes cleaning, inspection and maintenance of the product.

The responsibility for inspection and maintenance is subject to local and national requirements. The owner/operating company is responsible for compliance with the prescribed maintenance work.

By concluding a maintenance contract, you make sure that all maintenance work is done on time.

Record the initial start-up and all maintenance activities in the operation log (order no. 100073610000).

► Only use genuine spare and wearing parts from Grünbeck.

8.1 Cleaning

Beverage systems must be thoroughly cleaned and disinfected at regular intervals to prevent the formation of germs and scale deposits.

We recommend using the hydrogen peroxide spray (order no. 156 868) for disinfection as well as a scale remover.

For your own safety and the safety of your customers, we recommend documenting the care and hygiene work performed in a cleaning log.

Have the cleaning work only carried out by persons who have been instructed on the risks and hazards that can arise from the device.

WARNING Damp cleaning of live components

- Risk of electric shock
- Sparking possible due to short circuit

► Switch off the voltage supply before starting the cleaning work.

► Do not use any high-pressure equipment for cleaning and do not blast the device with water.

NOTE Do not clean the device with cleaning agents containing alcohol/solvents.

- Plastic components will suffer damage.
- Varnished surfaces are attacked.

► Use a mild/pH-neutral soap solution.

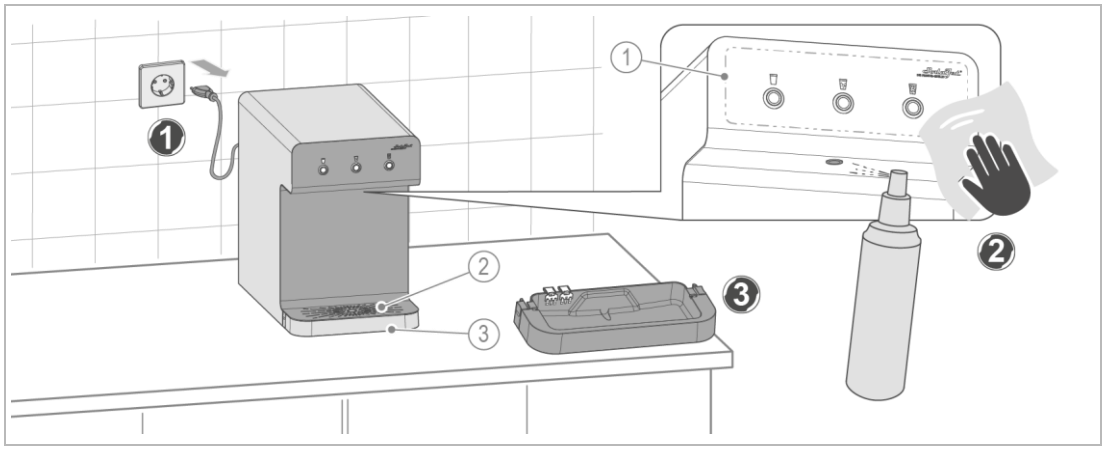
- ► Use hygienic gloves while cleaning.
- ► Only clean the outside of the device’s housing.
- ► Do not use any strong or abrasive cleaning agents.
- ► Wipe the surfaces with a clean and damp cloth.
- ► Dry the surfaces with a soft cloth.

8.1.1 Clean the operating panel, drip tray cover plate with dripping water pan

Use hygienic gloves for cleaning work to avoid germs during cleaning.

The intervals are subject to local conditions such as degree of use and user group. We recommend the following cleaning intervals:

- Clean and disinfect (dispense buttons, dispenser pipe) daily
- Descale the drip tray cover plate and dripping water pan once a week



	Designation		Designation
1	Water dispense area	3	Dripping water pan
2	Drip tray cover plate		

1. Disconnect the device from the power supply - remove the mains plug.
2. Clean the water dispense area with, for example, a scale remover.
3. Clean the drip tray cover plate with scale remover.
4. Clean the dripping water pan.
5. Spray the entire water dispense area with disinfectant and allow it to take effect for 30 seconds.
6. Dry the surfaces with a clean cloth.
7. Put the device into operation again.
8. Carry out flushing (refer to chapter 7.3).

8.2 Intervals

By way of regular inspections and maintenance, malfunctions can be detected in time and device failure might be avoided.

► (As owner/operating company) Determine which components have to be inspected and maintained at which intervals (load-dependent). These intervals are subject to the actual conditions, e.g.: water condition, degree of impurities, environmental influences, consumption, etc.

The interval table below shows the minimum intervals for the activities to be carried out.

Task	Interval	Tasks
Cleaning	daily	• Clean and disinfect the water dispense area
	Weekly	• Completely clean and disinfect the device on the outside • Descale the drip tray cover plate • Clean the dripping water pan • Perform flushing
	Every 3 months (recommended)	• Disinfect the device
Inspection	Monthly	• Visually check for leaks and fault signals • Check and clean the water dispense area • Check the taste and dispense volumes of the water • Visually check the mains cable and mains plug, the connection hose and the housing for damage • Check the drain connection for free outlet • Ensure the flushing unit (optional) has a free outlet to the drain • Check CO_2 cylinder, CO_2 line, CO_2 pressure controller
Maintenance	semi-annually	• Checking the condition of the device · Check the CO_2 path and the water path for leaks · Check the mains cable and mains plug for damage · Inspect connection hoses · Check drain connection for damage · Check that all labels are present · Clean the housing on the outside • Clean the ventilation slats • Check cooling function • Disinfect the water dispense area • Check dispense buttons for function and condition • Check the CO_2 cylinder • Disinfect the device
	load-dependent	• Disinfect
Repair	5 years	Recommendation: Replace wearing parts

8.3 Inspection

You, as owner/operating company, may perform the regular inspections yourself. Initially, we recommend inspecting the device at shorter intervals and later on as required.

► Carry out an inspection at least once a month and proceed as follows when doing so:

1. Check the dispense buttons and the dispenser pipe for dirt.
   a Clean and disinfect the water dispense area as required.
2. Check the taste of the water types STILL, MEDIUM and CLASSIC.
3. Visually check the device for leaks and fault signals.
4. Check the mains cable, the connection hose, water and the housing for damage.
5. Check the drain connection for damage and free outlet.
6. Check the flushing unit connection (optional) for damage and free outlet to the drain.
7. Check the CO_2 line and the condition of the external CO_2 cylinder and the CO_2 pressure controller for damage.

8.4 Maintenance

Some regular work is necessary in order to ensure proper functioning of the product in the long term. DIN EN 806-5 recommends regular maintenance to ensure trouble-free and hygienic operation of the product.

Carrying out maintenance work requires specialist knowledge. This kind of maintenance work must be carried out by the technical service or by qualified specialists trained by Grünbeck only.

► Carry out maintenance at least every six months and proceed as follows when doing so:

8.4.1 Checking the condition of the device

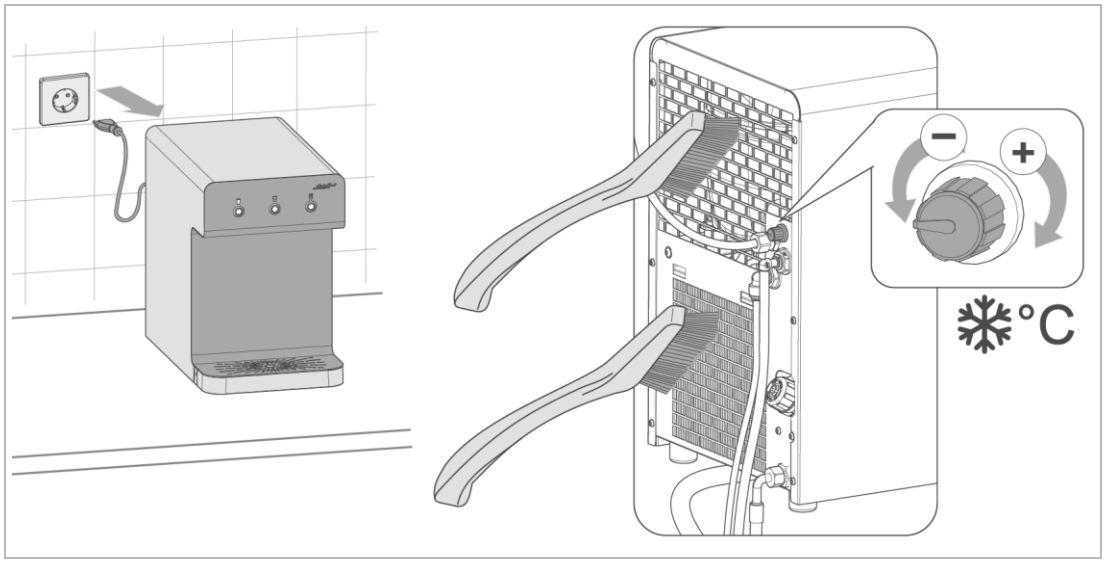
► Check the condition of the device as follows:

1. Check the water connection at the angle valve for leaks.
2. Check that all labels are in place.
3. Check the CO_2 path and water path for leaks.
4. Check the mains cable and the mains plug for damage - replace a damaged mains cable with a mains plug.
5. Inspect the connections of the water connection hose and the CO_2 line and replace them if damaged.

6. Check the drain connection for damage and free outlet.
7. Clean the outside of the housing (refer to chapter 8.1).

8.4.2 Clean the ventilation slats and check the cooling function

A dirty cooling unit results in higher power consumption (switch-off point is not reached any longer), poor efficiency and frequent system failures (overheating). The registers become clogged with fine dust, grease and organic material.

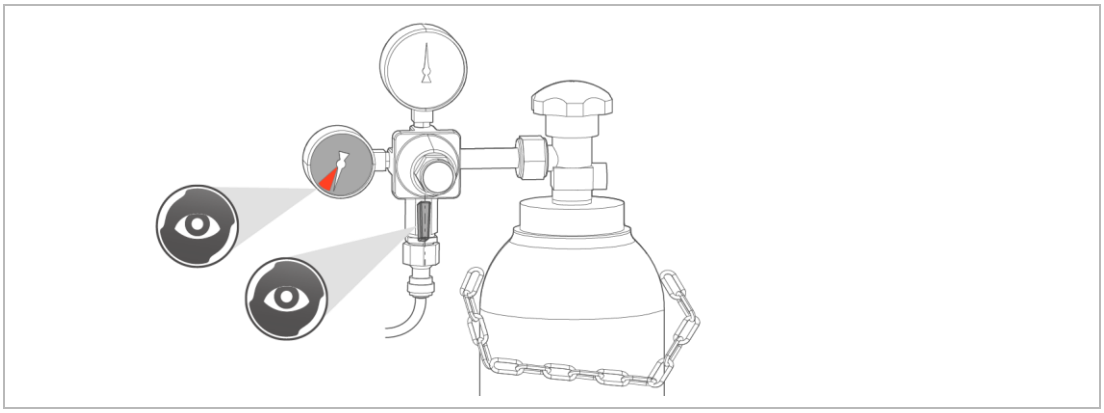


1. Disconnect the device from the power supply.
2. Clean the ventilation slats using a cleaning brush or a scrubbing brush.
   a Vacuum organic material and dust particles using a vacuum cleaner.
3. Establish the power supply.
4. Check the operating noises of the cooling unit.
5. Check the settings and the cooling function (refer to chapter 6.3.1).

8.4.3 Check the CO_2 cylinder

During use, the cylinder pressure is approx. 50 bar.

The cylinder pressure only decreases before the CO_2 cylinder is completely empty. The cylinder pressure does not reveal anything about the residual amount of CO_2 in the cylinder.



1. Check whether the shut-off valve is open.

» The shut-off valve must be vertical.

2. Check whether the pressure display on the pressure gauge for the cylinder pressure is in the red area.
3. Replace the CO_2 cylinder if the cylinder pressure is too low.

8.5 Disinfect

► Disinfect the device:

- during initial commissioning (recommended)
- Every 3 months (recommended)
- when changing the CO_2 cylinder (recommended)
- during semi-annual maintenance
- after prolonged downtimes of > 2 weeks
- if the bacteriological requirements are not fulfilled during control measurements.

Disinfection may have to be carried out more often. The intervals must be set reasonably. The disinfection frequency is subject to the criteria below:

- Local situation (ambient conditions)
- Stagnation times
- Water quality
- Impurities

Before disinfection is carried out, attention must be drawn to the maintenance work on the device.

► Place enclosed warning label clearly visible on the SODA JET Office.

WARNING Health risk due to disinfectant

- Harmful to health when in contact with the skin
- Causes severe skin burns and severe eye damage

► Keep unauthorised persons away.

► Use personal protective equipment (protective gloves and protective goggles).

► Obey the safety instructions for the disinfection tablets.

► Dilute a disinfectant solution with flushing water and direct it into the sewer.

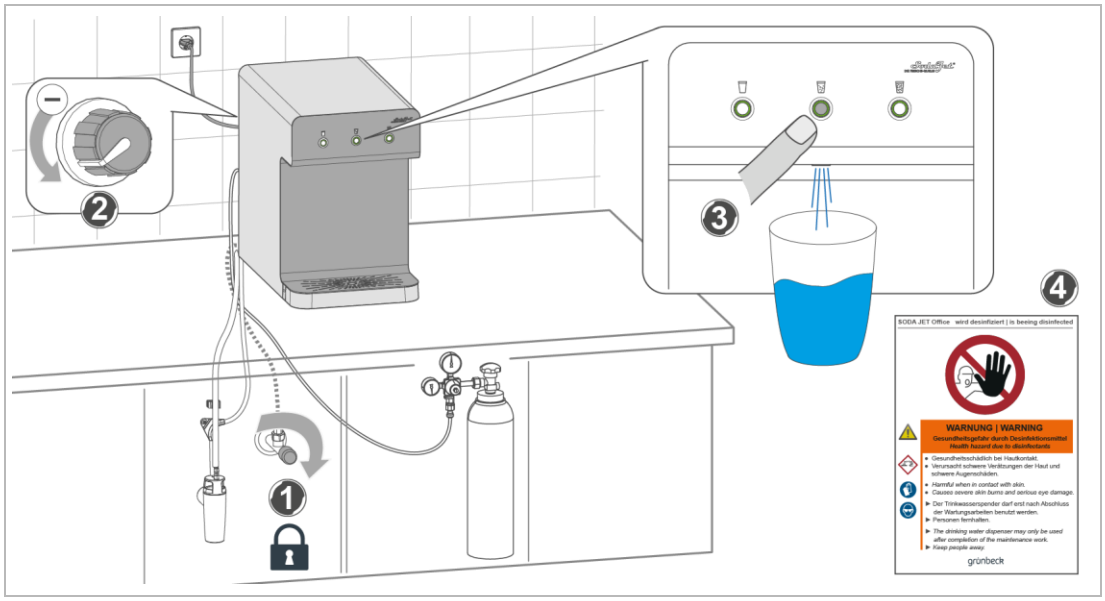
Prerequisite

To carry out disinfection, you need the material below:

- SODA JET Office disinfection kit for 2 applications

► Re-order the disinfection kit as required (refer to chapter 8.6).

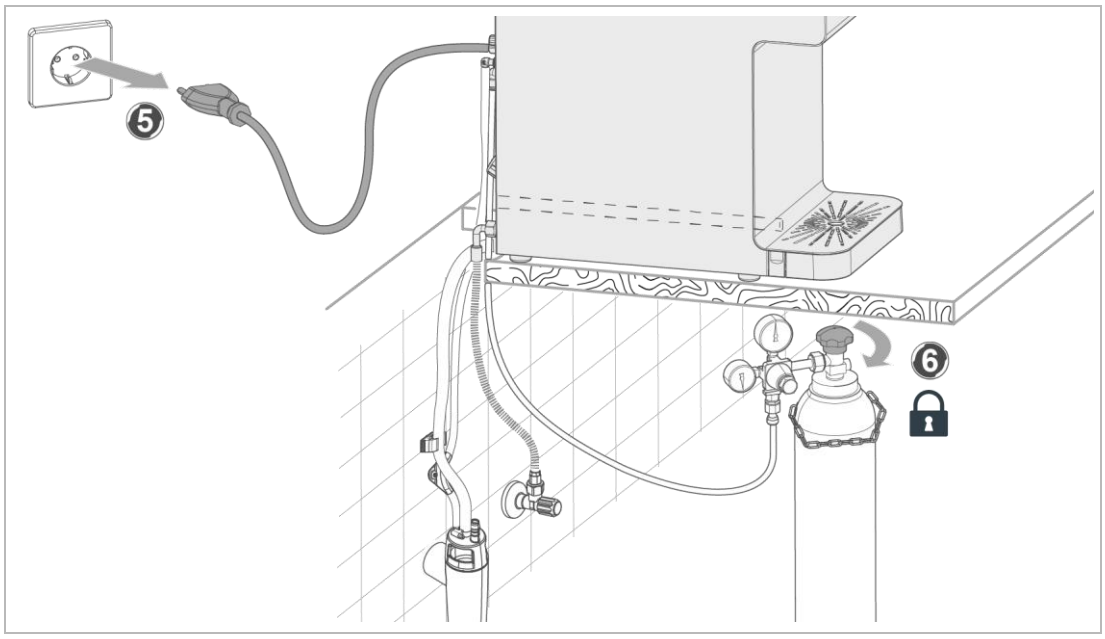
8.5.1 Preparing the device



1. Close the angle valve - shut off the water supply.
2. Switch off the cooling - turn the rotary knob all the way to the left.
3. Press the MEDIUM dispense button until there is no more water.

» The water pressure is relieved.

4. Mark the device with ***Out of service***.



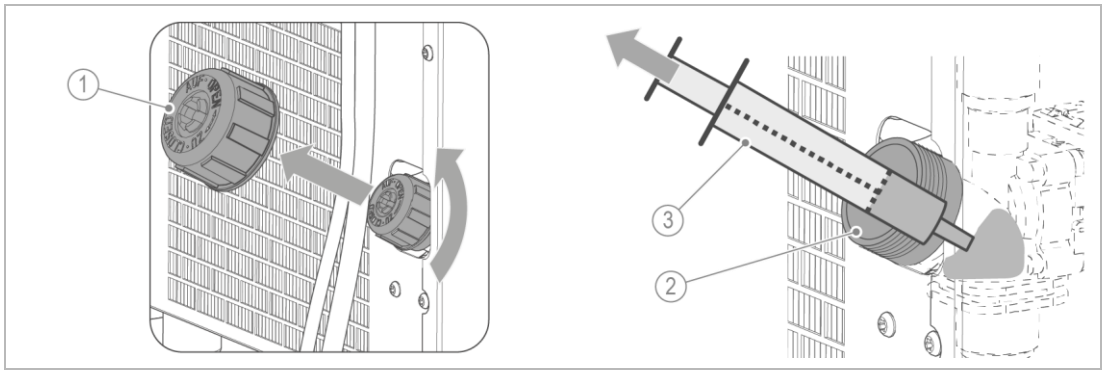
5. Disconnect the device from the power supply.
6. Close the cylinder valve of the CO_2 cylinder.

8.5.2 Preparing the disinfection tank

Small amounts of water may leak from the disinfection tank.

► Keep a cloth ready to absorb any leaking water.

► Carefully move the device away from the wall in such a way that the disinfection tank is accessible.



	Designation		Designation
1	Closing cap	3	Syringe
2	Disinfection tank		

1. Open the closing cap of the disinfection container - turn it anti-clockwise by hand.

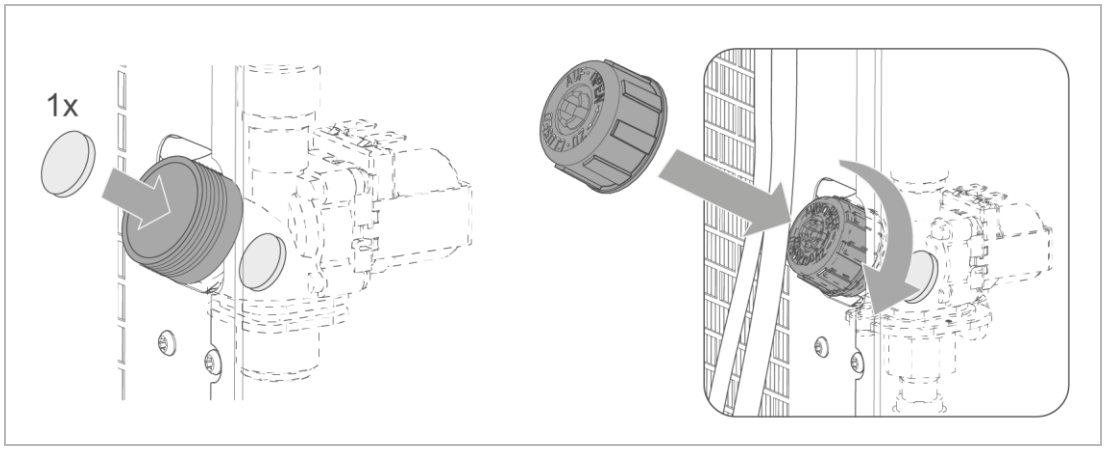
CAUTION Narrow, sharp-edged operating point on the closing cap

- Crushing/cutting of fingers

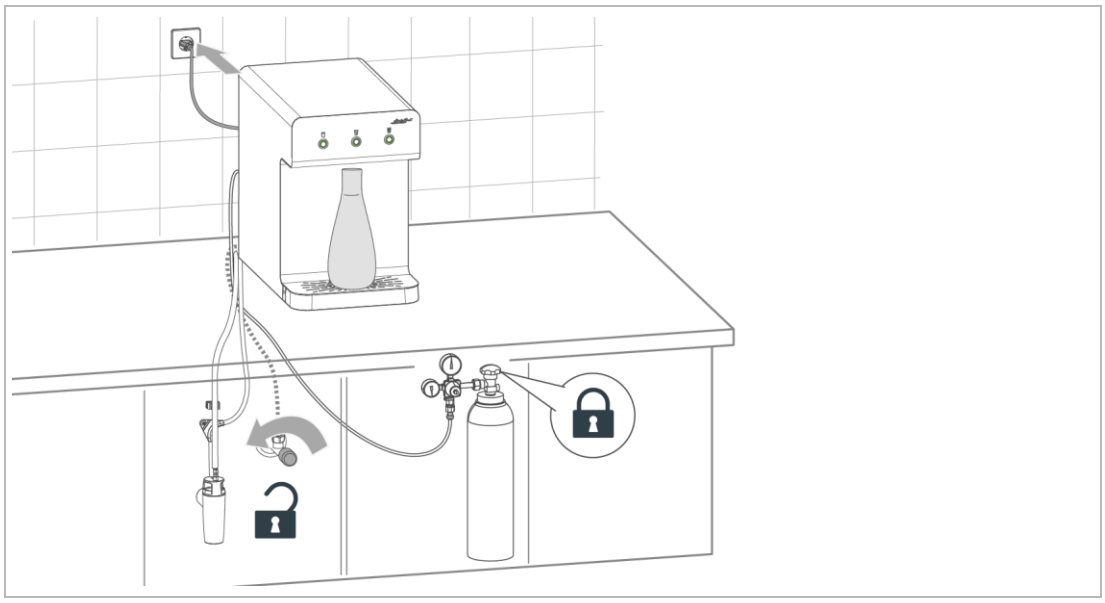
► Use protective gloves.

► Use pliers if the closing cap is stuck.

2. Drain the disinfection tank using the syringe.



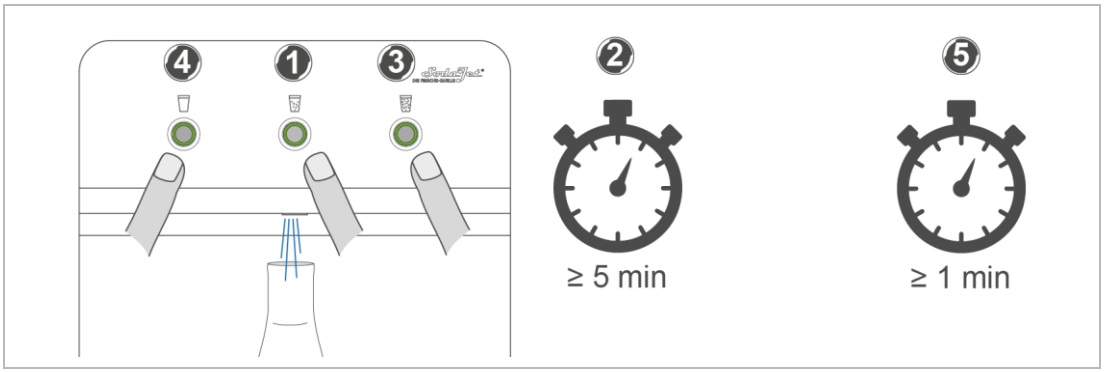
3. Place 1 disinfection tablet in the disinfection tank.
4. Close the cover - tighten by hand.



5. Open the angle valve of the water supply.
6. Establish the power supply – plug in the mains plug.
7. Place a collection container under the outlet.

► Check all components for leaks, especially the disinfection tank.

8.5.3 Flush in disinfectant and allow it to take effect



1. Press the MEDIUM dispense button until the water flows.
2. Wait until the disinfection tablet has dissolved (≥ 5 minutes).
3. Press the CLASSIC dispense button until the water turns slightly yellow.
4. Press the STILL dispense button until the water turns slightly yellow.
5. Allow the disinfectant to take effect (≥ 1 minute).

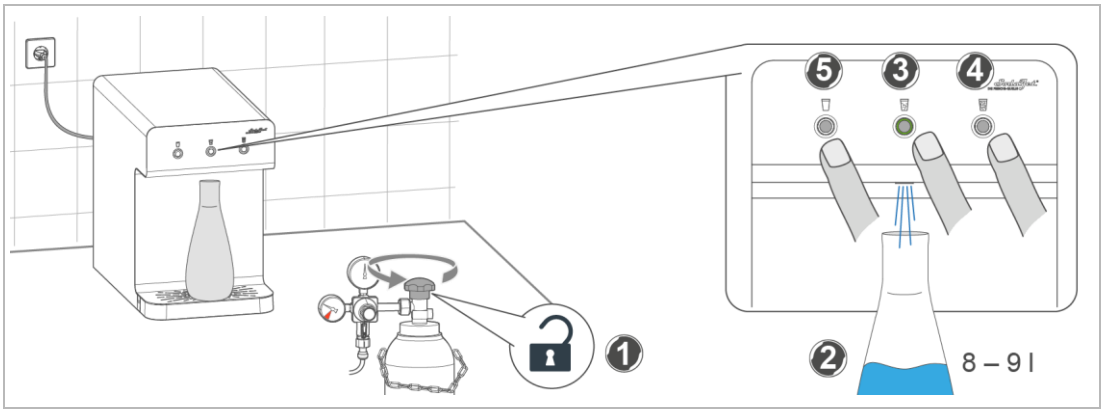
If necessary, the reaction time can be prolonged as required.

8.5.4 Flush out the disinfectant

WARNING Residual disinfectant in the device.

- Flushing water reaches the drinking vessel - health hazard.

► Observe the flushing time and check the drinking water after flushing.



1. Open the cylinder valve of the CO_2 cylinder.
2. Place a collection container under the outlet.
3. Press and keep the MEDIUM dispense button pressed until approx. 8 - 9 litres of water have been dispensed.

» The flushing water is collected in the collection container.

4. Press and keep the CLASSIC dispense button pressed until approx. 1 litre of water has been dispensed.
5. Press and keep the STILL dispense button pressed until approx. 1 litre of water has been dispensed.
6. Interrupt the flushing process and empty the collection container if necessary.
7. Release the dispense button to finish the flushing process.

8.5.4.1 Flushing out the disinfectant with the (optional) flushing unit

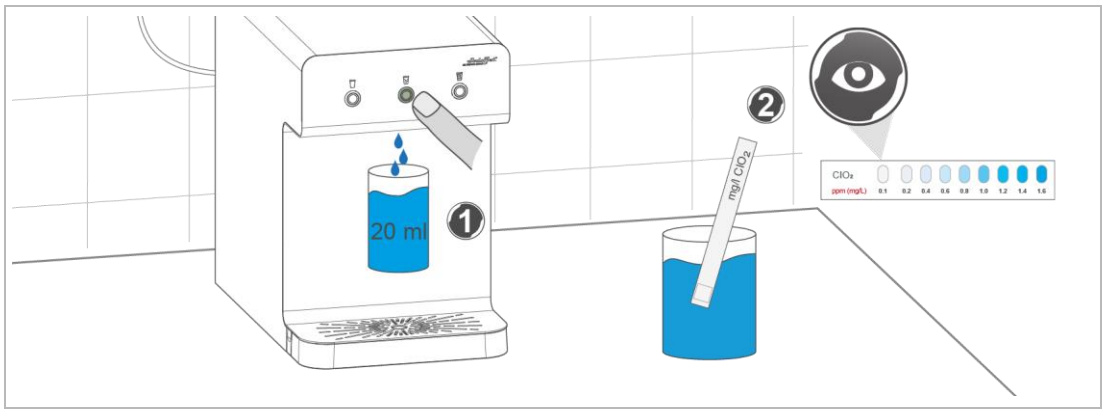
1. Press the STILL and CLASSIC dispense buttons for longer than 3 seconds at the same time and keep them pressed approx. 20-25 seconds.

» The flushing water is drained into the drain via the flushing unit.

2. Release the dispense buttons to finish the flushing process.

8.5.5 Checking the flushing process

► Use an empty vial for the water analysis.



1. Tap a water sample of approx. 20 ml using the MEDIUM dispense button.
2. Immerse a ClO_2 test strip in the water sample for approx. 20 seconds using gentle movements.
3. Wipe the test strip and wait for approx. 30 seconds.
4. Check the test strip for blue colouration.

» If the test strip does not show any blue colouration, there is no disinfectant present any longer.

» Flushing out was successful and you can continue with the final work.

5. If blue colouration is visible:
   - **a** Flush out several litres of water again using the MEDIUM + CLASSIC buttons.
   - **b** Check with a new test strip whether the flushing out process was successful.

» The test strip must not display any blue colouration.

8.5.6 Completing the disinfection

1. Check the setting of the temperature controller.
2. Press the MEDIUM dispense button until the pump briefly starts running for the first time.
3. Check all connections (CO_2 path and water path) for leaks.
4. Clean and disinfect the water dispense area (refer to chapter 8.1.1).
5. Clean the drip tray cover plate, the dripping water pan and the housing.
6. Remove the warning label and store it together with the operation log.

On completion of the disinfection, a sample tasting must be carried out.

7. Dispense MEDIUM and CLASSIC water and check a water sample for the criteria below:
   - Temperature
   - CO_2 concentration
   - Taste

8.6 Consumables

Product	Quantity	Order no.
SODA JET Office disinfection kit for 2 applications		**156000010000**
Hydrogen peroxide spray Herlisil S6, for spray disinfection of the dispenser pipe	1 piece	**156 868**

Specification of CO_2 compressed gas cylinder

You can order the CO_2 cylinder from your local SODA JET sales partner.

Using the accessories (CO_2 kit large and CO_2 kit small) all conventional CO_2 cylinders can be used.

CO_2 cylinder with CO_2 pressure reducer (max. 6 bar)

Application	Food-safe
Gas	CO_2

8.7 Spare parts

For an overview of the spare parts, refer to our spare parts catalogue at www.gruenbeck.com. You can obtain the spare parts from your local Grünbeck representative.

8.8 Wearing parts

Wearing parts must be replaced by qualified specialists only.

Wearing parts are listed below:

- Seals
- Non-return valve (water inlet)
- Solenoid valve (water inlet)
- Water pressure reducer
- Flushing valve (optional)
- Pump
- Carbonator
- Dripping water pan circuit board

9 Fault

WARNING Contaminated drinking water due to stagnation

- Infectious diseases due to bacterial growth

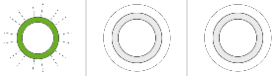
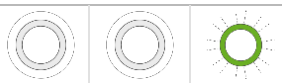
► Have malfunctions remedied immediately.

If a fault cannot be rectified, the technical service or a qualified specialist trained by Grünbeck can take further measures.

► Contact technical service (for contact details, refer to inside cover sheet).

9.1 Messages

LED status	Explanation
	LED lights up continuously
	LED is flashing
	LED is off

Operating mode	LED signal	Explanation/remedy
Fault signal 1		Lack of water • STILL LED flashing • STILL water dispensing is possible
	Primary pressure of the water is too low, fluctuating or interrupted.	► Check the flow pressure and re-establish the required primary pressure of the water.
	Connection hose is kinked or line is clogged.	► Check the lines ► Eliminate clogging
Fault signal 2		Dripping water pan • MEDIUM LED flashing • Water dispensing is possible
	Dripping water pan is full.	► Remove and empty the dripping water pan
	Contact is interrupted	► Check contact on dripping water pan
Fault signal 3		CO_2 pressure • MEDIUM LED flashing • STILL water dispensing is possible
	CO_2 cylinder is empty	► Change the CO_2 cylinder
	CO_2 pressure is too low	► Check pressure controller and regulate CO_2 pressure reducer ► Check the line and connections for CO_2 leakage
Collective fault		Internal error • Flashing LEDs • Acknowledgement with any dispense button
	Duty cycle of the cooling unit or the pump exceeded	► Contact technical service

9.2 Other observations

Observation	Explanation	Remedy
When tapping no drinking water comes out	Device is de-energised	► Establish power supply - plug in the mains plug
		► Check the mains cable and mains plug for damage ► Contact technical service in the event of damage
	Water pressure is too low	► Check the water inlet pipe and pressure reducer
	Water supply is interrupted	► Open the angle valve
When dispensing water, distinct outgassing noises can be heard (spraying, spluttering)	Water pressure is too low Pressure fluctuations in the water inlet pipe	► Check the water inlet pipe and pressure reducer • The primary water pressure should be 2.5 bar constantly ► Have the setting of the water pressure reducer in the device checked by the technical service
	Dispense volumes set too high	► Have the dispense volumes corrected by the technical service.
	Pump does not provide enough power.	► Have the pump replaced by technical service
No drinking water comes when tapping - only CO_2 gas is emitted	Water supply is interrupted	► Open the angle valve
	Connection hose line is kinked	► Check the connection hose
Very little CO_2 in the water	CO_2 cylinder empty (LED flashes).	► Change the CO_2 cylinder if the Led does not flash: ► Check the setting of the CO_2 pressure reducer
	CLASSIC dispense volume too high	► Have the dispense volume checked by the technical service.
	Water temperature too high	► Reduce cooling temperature
	Cooling unit does not reach the set temperature or takes too long to reach it	► Withdrawal volumes too high: Leave the device for a few minutes without dispensing water. ► Ambient temperature too high: Check the installation site ► Clean the ventilation slats ► Have the cooling unit replaced by technical service
Only STILL can be tapped	CO_2 cylinder is empty	► Change the CO_2 cylinder
Drinking water runs without pressing a dispense button	Defective or dirty solenoid valves	► Turn off the water supply, pull the mains plug ► Contact technical service
Strong vibrations	faulty pump with side vibration	► Have the pump replaced by technical service
	faulty cooling (compressor)	► Have the compressor replaced by technical service
	Pressure fluctuations	► Check water supply

10 Shutdown

10.1 Temporary shutdown

Carbonators must be used at regular intervals. Stagnating water can cause germs, especially in unrefrigerated areas, and retroactively worsen the hygiene standard of the device.

10.1.1 Short operational breaks (through the night)

1. Keep the device connected to the water and power supply.

10.1.2 Operational breaks of up to three days

1. Close the angle valve of the water supply.
2. Disconnect the device from the power supply.

10.1.3 Operational breaks of more than three days (weekend, holiday season)

1. Flush the device with at least 3 litres of water after restart.
2. Clean and disinfect the water dispense area.
3. Tap STILL, MEDIUM and CLASSIC water respectively and evaluate the water with regard to taste, temperature and CO_2 concentration.

10.1.4 Operational breaks of more than 2 weeks (holidays, company holidays)

1. Close the cylinder valve of the CO_2 cylinder and the shut-off valve of the CO_2 pressure reducer.
2. Have the device hygienised - disinfected and flushed - by a qualified specialist when put back into operation.

► Have the device deactivated in case a longer downtime is planned.

10.2 Restart

1. Open the angle valve of the water supply.
2. Establish the power supply.
3. Open the cylinder valve of the CO_2 cylinder and the shut-off valve of the CO_2 pressure reducer.
4. Carry out start-up/commissioning (refer to chapter 5.6).
   a Disinfect the device (refer to chapter 8.5).
   b Check the settings (refer to chapter 6.3).
5. Document the restart/recommissioning in the operation log.

10.3 Final decommissioning

The work below must be carried out by qualified specialists only.

1. Close the angle valve of the water supply.
2. Make sure that the water can flow into a collection container or to the drain.
3. Press and hold the STILL dispense button until CO_2 escapes.

» The CO_2 pressure empties the carbonator.

4. Close the shut-off valve and the cylinder valve of the CO_2 supply as soon as CO_2 is dispensed.
5. Press and hold the STILL dispense button again briefly.

» The pressure is relieved.

A residual amount of CO_2 remaining in the system is beneficial to the hygiene of the device.

6. Briefly pull the safety valve on the CO_2 pressure reducer.

» The CO_2 pressure reducer is relieved.

7. Disconnect the device from the power supply.

» The device is out of operation.

11 Dismantling and disposal

11.1 Dismantling

► Have this work carried out by qualified specialists only.

1. Carry out shutdown (refer to chapter 10).
2. Disconnect the device from the water installation – remove the connection hose and the drain connection
3. Loosen and remove the CO_2 cylinder.
4. Check whether the coolant system must be drained before transport.
5. Transport the device secured on a pallet (refer to chapter 4).

11.2 Disposal

► Comply with the applicable national regulations.

Packaging

NOTE Risk to the environment due to incorrect disposal

- Packaging materials are valuable raw materials and can be reused in many cases.
- Incorrect disposal can cause environmental pollution.

► Dispose of packaging material in an environmentally sound manner.

► Comply with locally applicable disposal regulations.

Coolant

- The coolant R290 has flammability class A3 and must be disposed of by qualified specialists for coolants only.

► Dispose of coolant R290 according to the national directives.

Disinfecting solution

► Feed a disinfectant solution diluted with flushing water into the sewer.

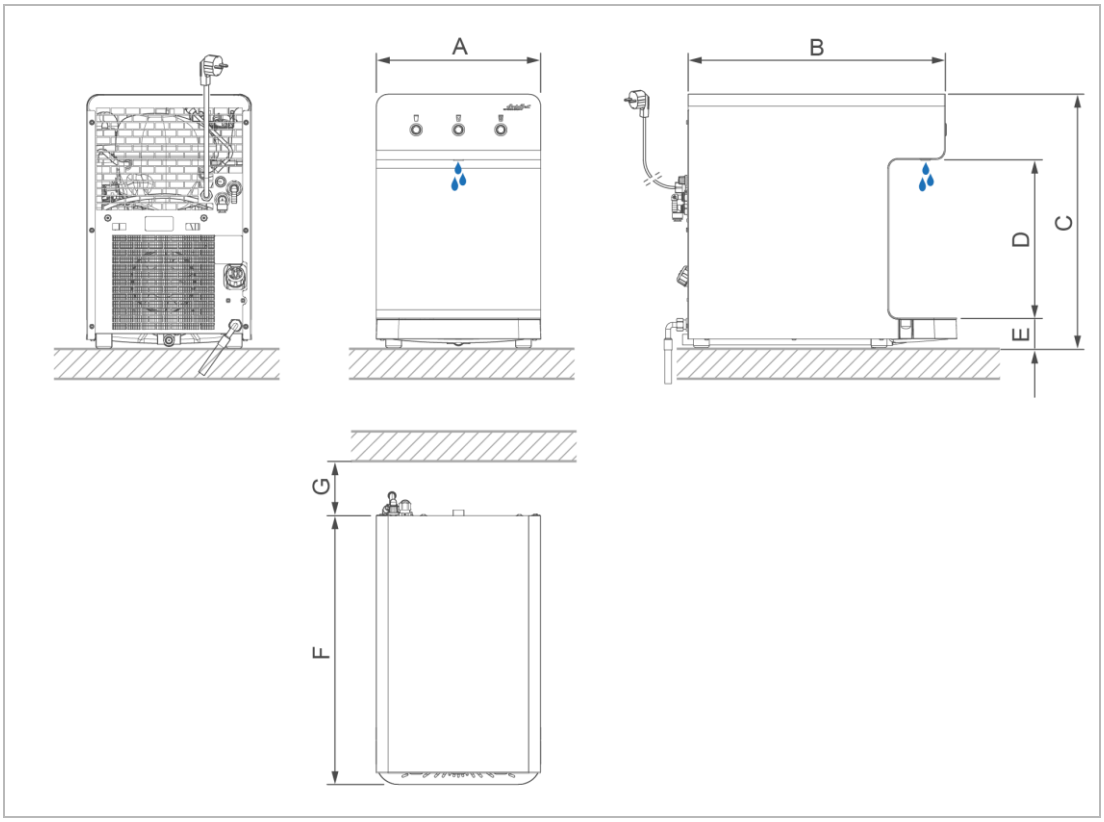
Product

If this symbol (crossed-out wheelie bin) is on the product, this product or its electrical and electronic components must not be disposed of as household waste.

- ► Find out about local regulations on the separate collection of electrical and electronic products.
- ► Make use of the collection points available to you for the disposal of your product.
- ► If your product contains batteries or rechargeable batteries, dispose of them separately from your product.

For more information on take-back and disposal, go to www.gruenbeck.com.

12 Technical specifications



Dimensions and weights			
A	System width	mm	291
B	System depth	mm	455
C	System height	mm	450
D	Outlet height (clearance)	mm	~ 280
E	Height of dripping water pan	mm	50
F	Total system depth	mm	475
G	Distance to wall	mm	≥ 50
Empty weight		kg	~ 32.5

Connection data		
Nominal connection diameter		DN 8
Connection hose (flexible stainless steel braided hose)	mm	1500
Cold water connection (to be provided by client)		Angle valve 3/8" male thread, flat seal
Drain connection		DN 50
Rated voltage range	V~	230
Rated frequency	Hz	50
Mains cable	mm	1500

Performance data		
Nominal pressure		PN 6
Operating pressure (recommended)	bar	2.5 – 7.1 (4.0)
Electrical power input idle mode	W	1.0
Power input during dispensing operation and cooling	W	≤ 370
Power input during dispensing and cooling	A	≤ 2
Nominal flow Dispense volumes: STILL/MEDIUM/CLASSIC	l/min	1.5/2.0/1.5
Carbon dioxide concentration CLASSIC, approx. *	g/l	6.5

Cooling data		
Cooling capacity	W	245
Dispensing capacity at room temperature	l/h	≤ 90
Coolant (R290, climatic category N)	g	60

CO_2 compressed gas cylinder (external)		
CO_2 cylinder with CO_2 pressure reducer (on site)	bar	≤ 6

Operating data		
Water pressure reducer	bar	3.5
Water pressure switch	bar	0.2
Noise emission	dB(A)	~ 38

Disinfection		
Frequency (recommended minimum)	months	3
Disinfectant		SODA JET disinfection tablets
Amount of disinfectant per disinfection	tablets	1

General data		
Water conductivity	µS/cm	≥ 100
Water temperature	°C	≤ 30
Ambient temperature	°C	5 – 45
Humidity (non-condensing)	%	≤ 70
Order no. (standard)		**156700000000**
Order no. (with flushing unit)		**156701000000**

* Can vary due to the following parameters:
Water and ambient temperature, water pressure, setting of cooling unit and flow volumes.

EU Declaration of Conformity

In accordance with Low Voltage Directive 2014/35/EU

CE

This is to certify that the system designated below meets the safety and health protection requirements of the applicable EU guidelines in terms of its design, construction and execution.

This certificate will become invalid if the system is modified in a way not approved by us.

Drinking water dispenser SODA JET Office

Serial no.: refer to type plate

The aforementioned system complies with the following directives and provisions:

- EMC (2014/30/EU)
- Directive on the Restriction of Hazardous Substances RoHS 2011/65/EU

The following harmonised standards have been applied:

- DIN EN 12100:2011-03
- EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021
- EN 60335-2-24:2010 + A1:2019 + A11:2020 + A2:2019
- EN 62233:2008
- EN 55014-1:2017 + A11:2020
- EN 61000-3-3:2013 + A1:2019
- EN 60335-2-75:2004 + A1:2005 + A11:2006 + A2:2008 + A12:2010

The following standards and regulations have been applied:

- EN IEC 61000-3-2:2019
- EN 55014-2:2015
- DVGW W516:2007-11
- EN 62233:2008
- DIN EN 1717:2011-08

Responsible for documentation: Mirjam Müller

Manufacturer: Grünbeck Wasseraufbereitung GmbH
Josef-Grünbeck-Str. 1
89420 Hoechstaedt/Germany

Hoechstaedt; Germany, 02.05.2023

T. Vogl

pp Tobias Vogl

Management Research, Development & Construction

Declaration of Conformity

for materials that come into contact with food

It is hereby declared that the product

Drinking water dispenser SODA JET Office

Serial no.: refer to type plate

complies with the provisions of Regulation (EU) No. 10/2011 and Regulation (EC) No. 1935/2004 - in the respective current version.

According to our suppliers, the total migration, as well as the specific migrations, are below the legal limits when used as specified.

The tests are performed in accordance with Regulation (EU) No. 10/2011 in conjunction with Annex V.

The materials and raw materials used comply with Regulation (EU) No. 10/2011.

The SODA JET Office drinking water dispenser is designed for the generation of refrigerated and/or carbonated water.

Hoechstaedt; Germany, 30.04.2021

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Publisher's information

Technical documentation
If you have any questions or suggestions regarding this operation manual, please contact the Technical Documentation Department at Grünbeck Wasseraufbereitung GmbH

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