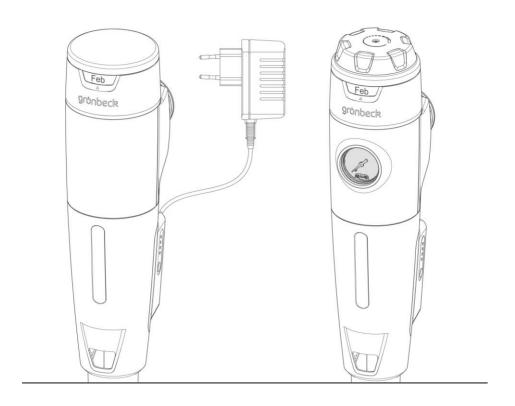
# We understand water.



**Q** cliQlock

Automatic filter | pureliQ:AX, pureliQ:ADX

Operation manual



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Availability
Monday to Thursday
7:00 am - 6:00 pm

Friday 7:00 am – 4:00 pm

Subject to technical modifications. © by Grünbeck AG

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# 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 component instructions contained therein before you operate your product.
- Comply with all safety information and handling instructions.
- Keep this manual and all other applicable documents, so that they are available when needed.

Illustrations in this manual are for basic understanding and can differ from the actual design.

### Retrieving information about the product



- ► Scan the QR code on the side of the product.
- You will be redirected to the product page and can retrieve further information in the download area.

# 1.1 Validity of the manual

This manual applies to following products:

- Automatic filter pureliQ:AX (101000050000)
- Automatic filter pureliQ:ADX (101000060000)

# 1.2 Other applicable documents



In the interests of sustainability, we provide the product data sheet, checklists and these instructions on our homepage for you to download

- Mounting instructions for the cliQlock basic module
- Product data sheet for the respective automatic filter
- Operation log with start-up report and maintenance checklists





You have the following options for accessing the applicable documents:

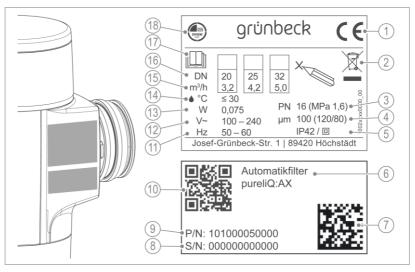
- Scan this QR code
- Use the link: qr.gruenbeck.de/046

### 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 side of the filter.



	Designation
1	CE mark
2	Disposal information
3	Nominal pressure
4	Pore size
5	Protection/protection class
6	Product designation
7	Data matrix code
8	Serial no.
9	Order no.

	Designation
10	QR Code for the operation manual
11	Mains connection frequency
12	Mains connection voltage
13	Electrical power consumption Standby
14	Water temperature
15	Flow rate
16	Nominal connection diameter
17	Obey the operation manual
18	DVGW test mark

# 1.4 Symbols used

Symbol	Meaning
	Danger and risk
0	Important information or prerequisite
0	Useful information or tip
	Written documentation required
<b>S</b> E	Reference to further documents
	Work that may only be carried out by qualified specialists
[拉]	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 with which you must comply for your own personal safety. The information and instructions are highlighted by a warning symbol and are structured as shown below:



### **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 might be used in this document:

Warning symbol a signal word	0011000	Consequences when disregarding the information/instructions			
DANGE	R	Death or serious injuries			
WARNI	NG Personal injury	Possible death or serious injuries			
CAUTIO	DN	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 Requirements for personnel

During the individual life cycle phases of the product, different people carry out work tasks on the product. The work requires different qualifications.

## 1.6.1 Qualification of personnel

Personnel	Prerequisites
User	<ul> <li>No special expertise required</li> <li>Knowledge of the tasks assigned</li> <li>Knowledge of possible dangers in case of inappropriate behaviour</li> <li>Knowledge of the required protective equipment and protective measures</li> <li>Knowledge of residual risks</li> </ul>
Owner/operating company	<ul> <li>Product-specific expertise</li> <li>Knowledge of statutory regulations on work safety and accident prevention</li> </ul>
Qualified specialist     Electrical engineering     Sanitary engineering     (HVAC and plumbing)     Transport	<ul> <li>Professional training</li> <li>Knowledge of relevant standards and regulations</li> <li>Knowledge of detection and prevention of potential hazards</li> <li>Knowledge of statutory regulations on accident prevention</li> </ul>
Technical service (Grünbeck's technical service/authorised ser- vice 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.

	User	Owner/ operating company	Qualified specialist	Technical service
Transport and storage		Χ	Χ	Χ
Installation and mounting			X	X
Start-up			X	X
Operation and handling	Χ	X	X	X
Cleaning	Χ	Χ	X	Χ
Inspection	Χ	Χ	X	X
Mainte- Semi-annually		Χ	X	X
nance Annually			X	Χ
Troubleshooting		Χ	X	Χ
Repair			X	Χ
Shutdown and restart			X	X
Dismantling and disposal			X	X

## 1.6.3 Personal protective equipment

You do not need any protective equipment to operate the product.

# 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 or extensions on your product.
- Only use genuine spare parts for maintenance or repair.
- Keep the premises locked to prevent unauthorised access and to protect endangered or untrained persons from residual risks.
- Comply with the maintenance intervals (refer to chapter 8.2).
   Failure to comply can result in the microbiological contamination of your drinking water system.
- Be aware of a possible risk of slipping due to leaking water on the floor.

### 2.1.1 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 and the product for leaks at regular intervals.
- Before starting repair and maintenance work, make sure that all affected components are depressurised.

## 2.1.2 Electrical dangers

- Do not operate any products which have a damaged power supply cable. This can lead to injuries due to electric shock.
   Have damaged mains cables replaced by the manufacturer or by authorised personnel without delay.
- 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 product.
- 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 bridge electrical fuses. Do not disable fuses. Observe the correct current rating when replacing fuses.
- Ensure that the socket outlet has a protective earth connection. If necessary, retrofit the socket outlet with an adapter with an earthing contact.
- Keep moisture away from live parts. Moisture can cause short-circuits.

## 2.1.3 Group of persons requiring protection

- Children must not play with the product.
- This product is not designed to be used by persons (including children) with reduced capabilities, lack of experience or lack of knowledge. Unless they are supervised, have been instructed on 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



### WARNING

Excessive contamination of the filter element

- Risk of infection due to contamination
- ► Comply with the intervals and recommendations for inspection and maintenance of the filter.
- Do not unlock the cliQlock module system under pressure. Ensure that the water supply is shut off before unlocking the cliQlock module system.

# 2.3 Conduct in emergencies

### 2.3.1 In case of water leaks

- 1. Close the shut-off valves for the water flow upstream and downstream from the product.
- **2.** Disconnect the product from mains. Disconnect the mains plug.
- 3. Locate the leak.
- 4. Eliminate the cause of the water leak.

# 3 Product description

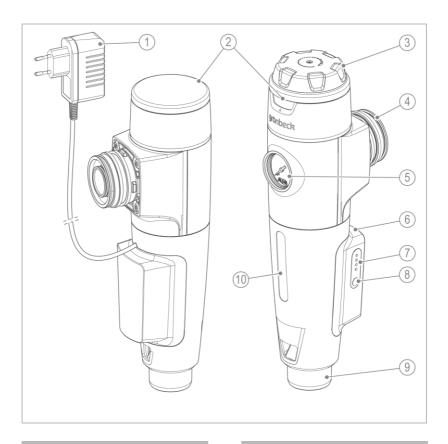
### 3.1 Intended use

- The automatic filters pureliQ:AX and pureliQ:ADX are designed for the filtration of drinking water.
- The automatic filter ADX with pressure reducer in addition is suitable for the adjustment of the outlet pressure on the withdrawal side in order to maintain the max. admissible operating pressure stipulated in DIN EN 806-2.
- The filters can be used for positive and negative pressure applications. The backwash and the adjustment of the after-pressure on the withdrawal side, however, only works when applied in the positive pressure range.
- The filters are designed according to the stipulations of DIN EN 13443-1 and DIN 19628 and are intended for installation into the drinking water system according to DIN EN 806-2 (installation immediately downstream of the water meter).
- They protect the water pipes and connected water-carrying system parts from disturbances and corrosion damage due to undissolved impurities (particles) such as rust particles, sand, etc.
- The filters can only be used in combination with the cliQlock module system.

### 3.1.1 Foreseeable misuse

- The filters are not suitable for circulation water that is treated with chemicals.
- The filters are neither suitable for oils, greases, solvents, soaps and other lubricating media, nor for the separation of water-soluble substances.

## 3.2 Product components



### Designation

- 1 Plug-in power supply unit with mains cable
- 2 Maintenance ring with month indicator
- 3 Pressure reducer handwheel
- 4 Slip-on coupling for cliQlock basic module
- 5 Pressure gauge

- 6 Automatic unit with controller
- 7 LED backwash intervals
- 8 Push-button
- 9 Adapter for drain connection
- 10 Inspection window

## 3.3 Functional description

The unfiltered drinking water flows into the filter through the inlet side and from the outside in through the filter element and to the pure water outlet. Thus, foreign particles of a size > 100  $\mu$ m are retained

Depending on their size and weight, foreign particles stick to the filter element or they fall straight down into the filter cylinder.

The controller automatically releases the backwash as per the setting. Possible settings for the backwash intervals are 7, 30, 60 and 90 days. Grünbeck recommends a backwash interval of 60 days.

A backwash can be initiated manually at any time. The drain is opened by triggering a backwash. The water flows through the primary screen to the filter element and then flows through the filter element in the reverse direction to normal filtration. Thanks to Grünbeck's innovative Vortex technology, particles sticking to the filter element are detached and washed out to the drain.

The backwash process takes about 50 seconds. In case some particles still remain on the filter element, the backwash must be triggered again manually.

With the pureliQ:ADX automatic filter, the holding pressure on the withdrawal side can also be set to 1 - 6 bar using the pressure reducer (in accordance with DIN EN 1567).

# 4 Transport and storage

# 4.1 Transport

- ► Transport the product in its original packaging only.
- ▶ Obey the symbols and instructions on the packaging.

# 4.2 Storage

- ► When storing it, protect the product from the effects of the following:
  - Moisture, wetness
  - · Environmental impacts such as wind, rain, snow, etc.
  - · Frost, direct sunlight, severe heat exposure
  - · Chemicals, dyes, solvents and their vapours

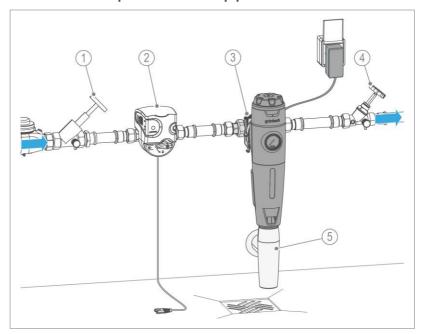
# 5 Installation



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

In accordance with DIN EN 806-2 and DIN EN 1717, the product is installed in the cold water pipe downstream of the water meter and upstream of distribution pipes and the appliances to be protected.

### Installation example in horizontal pipe

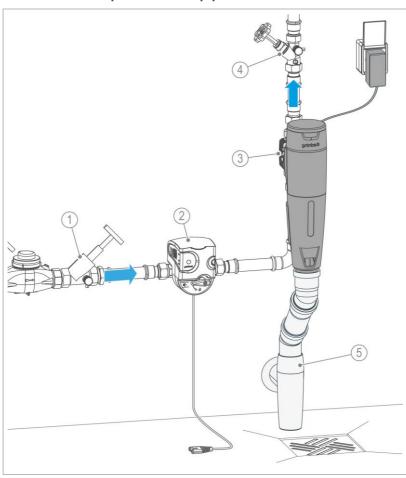


### Designation

- 1 Inlet shut-off valve
- 2 Safety device protectliQ
- 3 cliQlock basic module

- 4 Outlet shut-off valve
  - Drain connection DN 50 acc. to DIN EN 1717 (optional)

### Installation example in vertical pipe

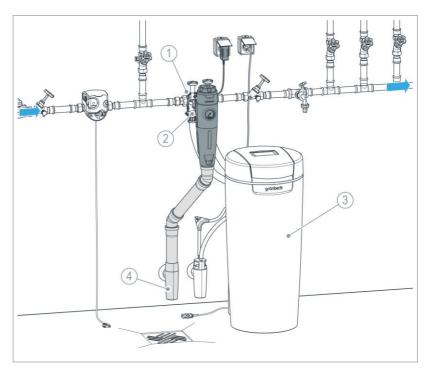


_	_	3	_	 _	43	_	

- 1 Inlet shut-off valve
- 2 Safety device protectliQ
- 3 cliQlock basic module

- 4 Outlet shut-off valve
- Drain connection DN 50 acc. to DIN EN 1717 (optional)

# Installation example in conjunction with softliQ:SE connection module



### Designation

- 1 cliQlock basic module
- 2 softliQ:SE connection module

- 3 Water softener softliQ:SE
- Drain connection DN 50 acc. to DIN EN 1717 (optional)

# 5.1 Requirements for the installation site

Obey the local installation directives, general guidelines and technical specifications.

- Protection from frost, severe heat exposure and direct sunlight
- Protection from chemicals, dyes, solvents and their vapours
- Ambient temperature and radiation temperature in the immediate vicinity
  - ≤ 25 °C for applications in the drinking water sector
  - ≤ 40 °C for purely technical applications
- Protection from heat sources (e.g. heating systems, boilers and hot water pipes)
- Access for maintenance work (take required space into consideration)
- Sufficiently illuminated as well as aerated and ventilated
- Pipe with sufficient load-bearing capacity to support the operating weight of the product

• There must be a clearance of at least 500 mm in front of the product for operation.

### Water installation

- Drain connection ≥ DN 50
- Floor drain or corresponding safety device with water stop function (e.g. safety device protectliQ)
- Shut-off valves upstream and downstream of the product

### **Electrical installation**

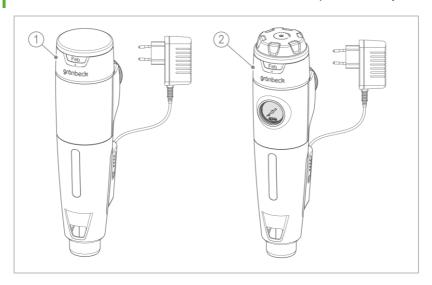
- Schuko socket (type F, CEE 7/3) with continuous power supply (max. 1.2 m from the control unit).
- The socket must not be coupled with light switches, emergency heating switches or the like.

# 5.2 Checking the scope of supply



Depending on your order, you will receive the automatic filter pureliQ:AX or the pureliQ:ADX backwash filter with pressure reducer.

The cliQlock basic module is not included in the scope of delivery.



### Designation

Automatic filter pureliQ:AX with plug-in power supply and mains cable approx. 1.5 m long

### Designation

- Automatic filter pureliQ:ADX with plug-in power supply and mains cable approx. 1.5 m long
- ▶ Check the scope of supply for completeness and damage.



The transparent plastic film serves as transport and dirt protection.

► Leave it on the product during assembly and the construction phase to prevent soiling of the white housing.



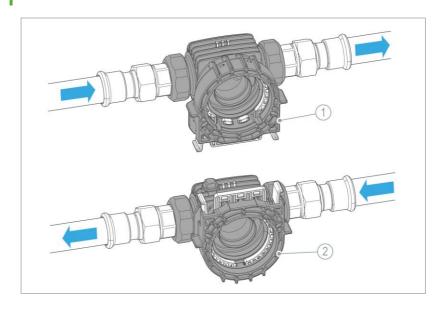
The cliQlock basic module must already be installed.

The filter can be mounted in a horizontal or vertical pipe.

### 5.3.1 Pre-installing the cliQlock basic module

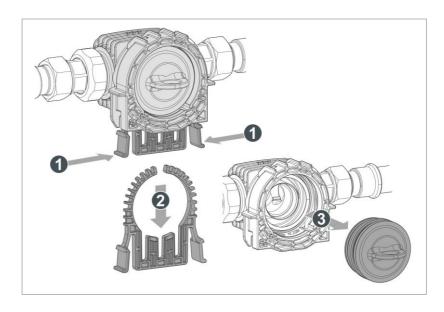


Install the cliQlock basic module in accordance with the mounting instructions.

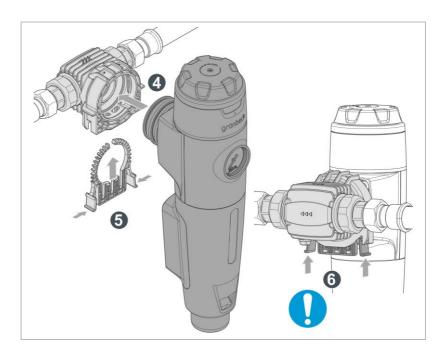


- 1 cliQlock basic module in flow direction from the left (bracket points downwards)
- 2 cliQlock basic module in flow direction from the right (bracket points upwards)
  - ► Check that the cliQlock basic module is installed correctly according to the direction of flow.

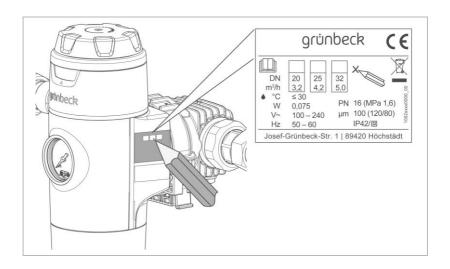
## 5.3.2 Connect the filter to the cliQlock basic module



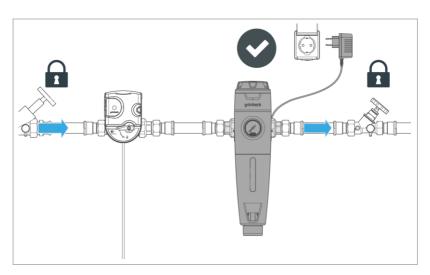
- 1. Press the cliQlock clamp together slightly.
- 2. Slowly pull the cliQlock clamp out.
- **3.** Pull out the closing cap for the cliQlock module system, if available.
  - a Keep the closing cap for the cliQlock module system.



- **4.** Insert the filter with the plug-in coupling into the cliQlock basic module as far as it will go.
  - **a** Check that the filter is fully inserted to the stop otherwise the cliQlock clamp cannot be inserted.
- **5.** Carefully insert the cliQlock clamp into the cliQlock basic module.
- » The cliQlock clip clicks audibly into place.
- **6.** Check that the cliQlock clamp and the filter are firmly seated in the cliQlock basic module.
  - a Slowly pull the cliQlock clamp out.



**7.** Note the nominal connection diameter (DN) of the cliQlock basic module on the type plate.



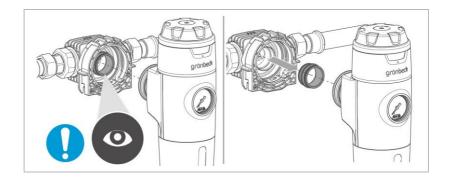
» The filter is mounted in the cliQlock basic module.

# 5.3.3 Removing the filter from the cliQlock basic module

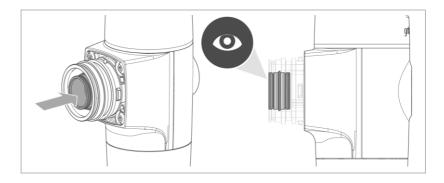


When removing the filter, the plug-in coupling can get stuck in the cliQlock basic module.

- ▶ Use hygiene gloves when carrying out this work.
- ▶ Observe the following when removing the filter:



**1.** Pull the plug-in coupling out of the cliQlock basic module by hand - do not use any tools.



**2.** Insert the plug-in coupling into the filter connection as far as it will go.

# 5.4 Installing the filter in the softliQ:SE connection module

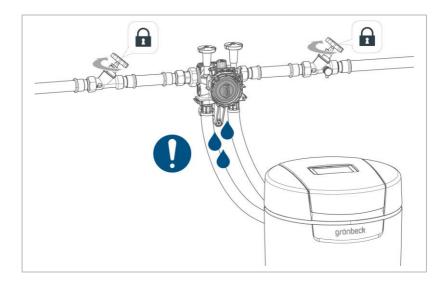


The pureliQ:AX/ADX filters for the cliQlock module system can be connected to the softliQ:SE connection module.



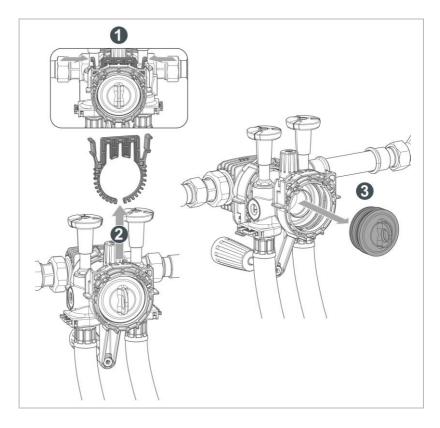
A small amount of water may escape when installing the filter.

► Install the filter as follows:



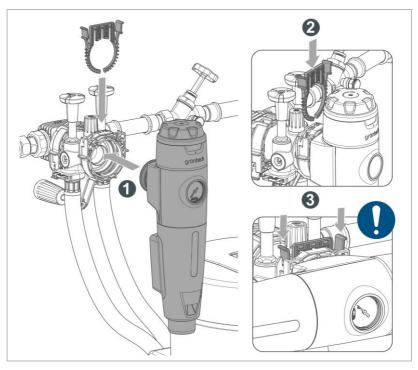
- 1. Close the shut-off valve upstream from the cliQlock module system.
- **2.** Open a water withdrawal point and allow water to run until the pressure in the water pipe has been released.
- 3. Close the shut-off valve after the cliQlock module system.

## 5.4.1 Open the connection module

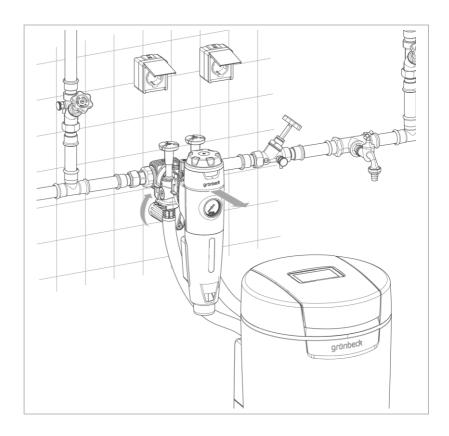


- 1. Press the cliQlock clamp together slightly.
- 2. Slowly pull the cliQlock clamp out.
- 3. Pull out the closing cap for the cliQlock.
  - a Keep the closing cap for the cliQlock.

## 5.4.2 Inserting the filter element



- 1. Insert the filter with the plug-in coupling into the cliQlock connection module as far as it will go.
  - **a** Check that the filter is fully inserted to the stop otherwise the cliQlock clamp cannot be inserted.
- 2. Carefully insert the cliQlock clamp into the connection module.
- » The cliQlock clip clicks audibly into place.
- **3.** Check that the cliQlock clamp is firmly seated in the connection module.
  - a Pull gently on the cliQlock clamp.



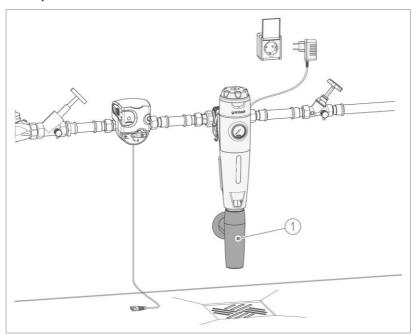
- 4. Check the filter in the connection module.
  - a Pull gently on the filter.
- When mounting horizontally, ensure that the connection module with the filter is securely supported against the wall surface.
  - **a** If necessary, adjust the handwheel of the wall support until it presses against the wall surface.
- » The filter is mounted in the softliQ:SE connection module.

# 5.5 Attaching the backwash connection



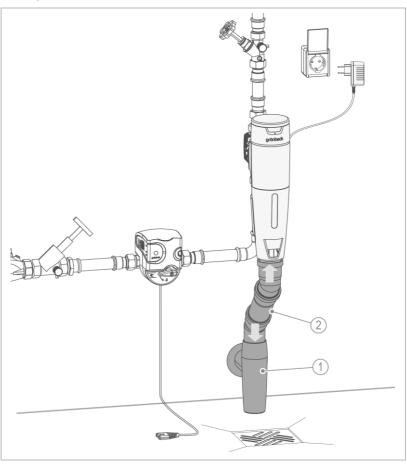
Refer to the installation instructions for the drain connection.

### Example 1



- 1 Drain connection DN 50 acc. to DIN EN 1717
- ► Install the drain connection (not included in the scope of supply).

## Example 2



### Designation

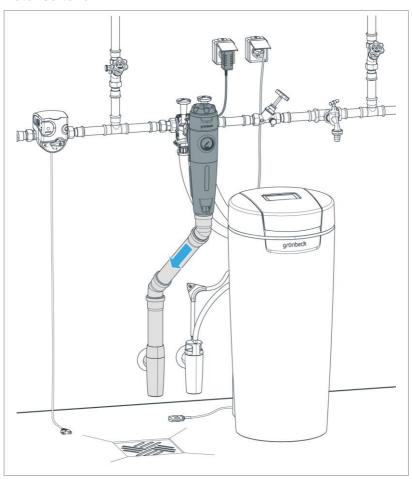
Drain connection DN 50 acc. to DIN EN 1717

### Designation

2 Waste water pipe on site

► Install a waste water pipe towards the drain.

# Drain the backwash water in conjunction with the softliQ:SE water softener



- **1.** Install the drain connection (not included in the scope of supply).
- 2. Install a waste water pipe towards the drain.



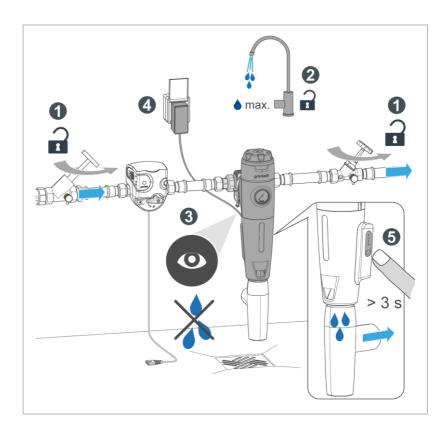
Refer to the operating instructions for the softliQ:SE water softener.

# 6 Start-up



The initial start-up of the product must be carried out by technical service personnel only.

# 6.1 Checking the product



1. Open the shut-off valves.

- 2. Open the nearest water withdrawal point downstream from the filter as far as it will go.
- » The filter is vented.
- Check the filter for leaks.
- 4. Plug the plug-in power supply unit into the socket.
- » LED 60d lights up.



The filter does not automatically backwash during initial startup/commissioning. A backwash interval of 60 days is factoryset.

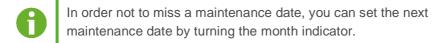
5. Start a manual backwash (refer to chapter 7.2.2).

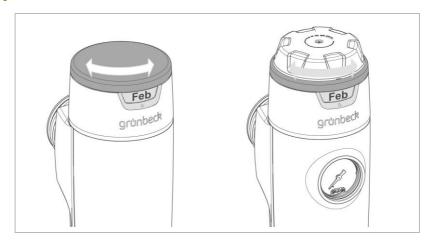


The interval counter is then set to zero. The next backwash takes place at the set interval. For setting the backwash interval refer to chapter 7.2.

- » The filter is vented by the backwash.
- **6.** Enter the initial start-up in the operation log.

# 6.2 Setting the month display



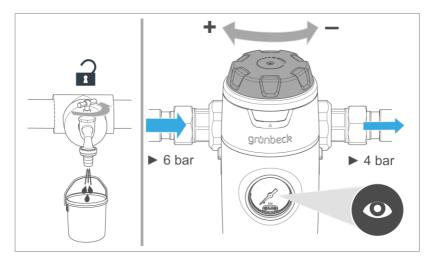


► Set the maintenance ring to the month of the next maintenance.

# 6.3 Setting the pressure reducer (pureliQ:ADX)

The pressure reducer is factory-set to 4 bar.

You can change this value as follows:



- Set the desired holding pressure on the handwheel for pressure reducer
   (turn anti clockwise = pressure increase,
   turn clockwise = pressure reduction).
- 2. Open and close a water withdrawal point.
- » The outlet pressure adjusts itself.
- 3. Read the actual outlet pressure on the pressure gauge.
- **4.** Repeat steps 1. 3. until the desired pressure is reached.
- » The desired outlet pressure is set.



The outlet pressure is set according to DIN EN 806-2.

► Comply with the max. admissible operating pressure.

# 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 storage.

### 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

▶ Keep the accessories supplied for the product in a safe place.

# 3A\_100263059900\_en\_015\_pureliQ\_AX-ADX

# 7 Operation/handling

The product is operated automatically and does not require any manual operation.

Backwashing is carried out automatically and time-controlled.



The filter should always be connected to the power supply. If the power supply is interrupted, the filter automatically completes any backwash that might be in progress.

During the initial start-up/commissioning or after a longer interruption of the electrical power supply, the backwash protection will only be available again after approx. 5 minutes.



#### CAUTION

Unlock the cliQlock module system under pressure

- · Bumping, hitting through filter
- ► Shut off the water supply before operating the cliQlock module system.
- ► Ensure that the cliQlock module system is depressurised.
- ▶ Inspect the filter at regular intervals (refer to chapter 8.3).
- ► Flush the filter after a temporary shutdown (refer to chapter 10.1).

# 7.1 Installing Grünbeck's myProduct app





You can register your product in the myProduct app. That way, you will receive additional information on your product.

Download Grünbeck's myProduct app and install it on your mobile device.

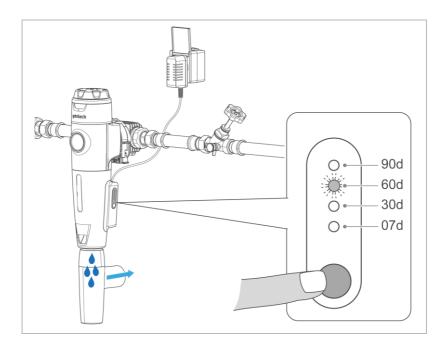
# 7.2 Operating the backwash unit

The automatic filter automatically starts backwash processes at the set intervals.

The backwash interval is factory-set to 60 days. You can change the backwash intervals.

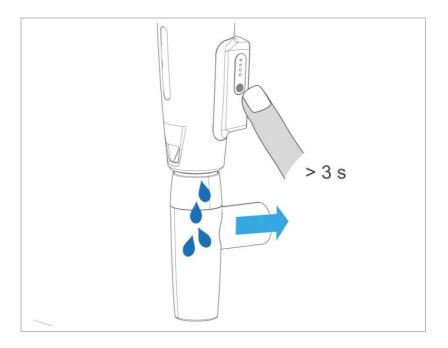
# BA\_100263059900\_en\_015\_pureliQ\_AX-ADX

### 7.2.1 Setting the backwash intervals



- ► Press the push-button repeatedly until the desired backwash interval is set.
- » The corresponding LED lights up.
- » The filter automatically backwashes at the set interval.
- » The backwash process takes about 50 seconds.
- ► If case some particles still remain on the filter element, start a manual backwash again.

# 7.2.2 Starting a manual backwash



- ▶ Press the button for 3 seconds.
- » During the backwash process, approx. 14 I of backwash water are discharged to the drain.

# 100263059900 en 015 pureliQ AX-ADX

# 8 Maintenance and repair

Maintenance and repair includes the cleaning, inspection and servicing 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 and repair work.



By concluding a maintenance contract you ensure that all maintenance work will be performed in due time.

▶ Only use genuine spare and wearing parts from Grünbeck.

# 8.1 Cleaning

NOTE

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

- These substances damage the plastic components.
- Varnished surfaces are affected.
- ▶ Use a mild/pH-neutral soap solution.
- ► Only clean the outside of the product.
- ▶ Do not use any strong or abrasive cleaning agents.
- ▶ Wipe the surfaces with a damp cloth.

### 8.2 Intervals



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.

➤ As the 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.

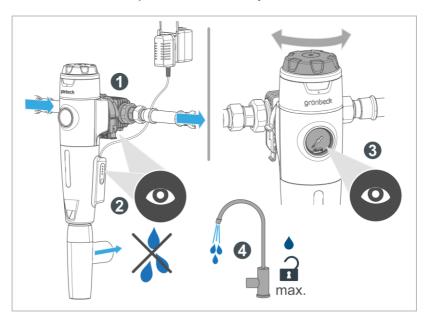
The following interval table shows the minimum intervals for the activities to be performed.

Task	Interval	Activities	
Inspection	2 months	<ul><li>Visually check for function and leaks</li><li>Read the pressure (for pureliQ:ADX)</li></ul>	
Maintenance	6 months	<ul> <li>Check for function</li> <li>Backwash</li> <li>Check condition and leak tightness</li> <li>Adjust the maintenance ring</li> <li>Check plug-in power supply unit with mains cable</li> </ul>	
	annually as needed	<ul> <li>Backwash</li> <li>Check O-rings/seals for wear</li> <li>Check automatic drive for wear and tear</li> <li>Check that the filter and the cliQlock basic module are firmly seated</li> </ul>	
Repair	5 years	<ul> <li>Recommendation: replace filter element, seals, backwash valve, spring assembly, fastening nut</li> </ul>	
	10 years	<ul> <li>Recommendation: Replace filter cylinder and automatic drive</li> </ul>	

# 8.3 Inspection

You, as owner/operating company, can carry out the regular inspections yourself.

► Conduct an inspection at least every 2 months.



- 1. Check the installation for leaks and function.
- 2. Check whether the LED indicates a malfunction.
- 3. Read the static pressure (zero flow) of pureliQ:ADX.
- **4.** Fully open a water withdrawal point (generate max. flow) and read the flow pressure.
- Carry out a backwash in case of increasing contamination of the filter element and/or decreasing water pressure in the pipe network.

### 8.4 Maintenance

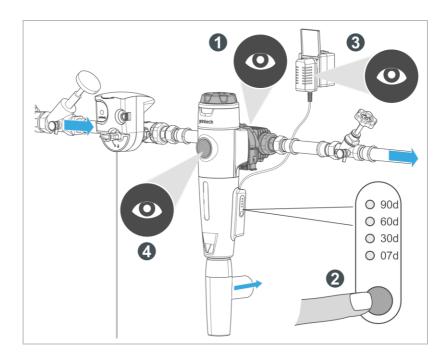


#### WARNING

Irregular backwash of the filter

- Risk of infection due to contamination
- ► Check whether the set intervals for backwashing the filter are set appropriately for the water withdrawal quantity.
- ► Comply with the intervals for inspection and backwash of the filter.

#### 8.4.1 Semi-annual maintenance



- 1. Check the installation for leaks and function.
- 2. Initiate a manual backwash.



A defective plug-in power supply unit with mains cable must be replaced by authorised specialist personnel only.

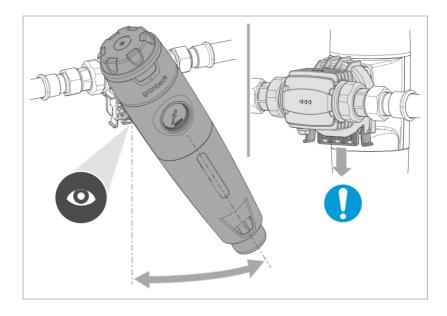
- 4. Check the water pressure of the pureliQ:ADX:
  - **a** Fully open a water withdrawal point and read the flow pressure on the pressure gauge.
  - **b** Close the water withdrawal point and read the static pressure (zero flow) on the pressure gauge.
  - c Adjust the holding pressure if required.
- **5.** Set the date for the next maintenance (6 months) by setting the month indicator (refer to 6.2).

#### 8.4.2 Annual maintenance

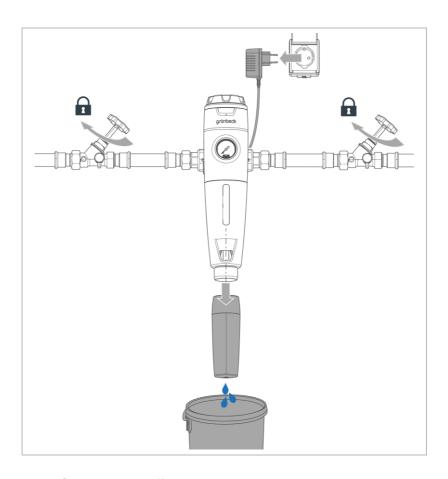


The work below must be carried out by a qualified specialist only.

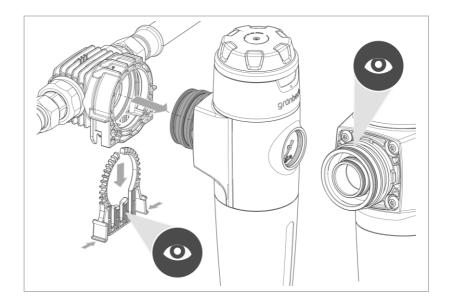
If a leak or malfunction is detected, conduct a wear test in addition to the semi-annual maintenance:



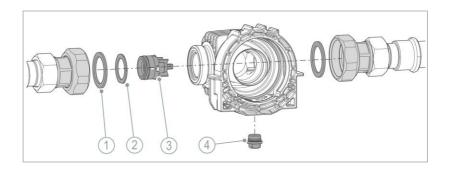
- 1. Detach the drain connection from the filter.
- 2. Check the tight fit of the filter on the cliQlock basic module.
  - a Pull on the filter plug and swivel it.
- » The filter must not come loose from the cliQlock basic module.
- » The connection point must not leak.
- 3. Pull on the cliQlock clamp without unlocking it.
- » The cliQlock clamp must not come loose.



- 4. Close the shut-off valves at the inlet and outlet.
- **5.** Carry out a backwash to relieve the water pressure in the filter and in the water pipe.
- **6.** Pull the plug-in power supply unit from the socket.
- 7. Remove the drain connection.



- 8. Detach the filter from the cliQlock basic module.
  - a Pull out the cliQlock clamp.
  - **b** Carefully pull the filter out.
- 9. Check the O-rings on the plug-in coupling for wear.
- **10.**Check the cliQlock clamp and the cliQlock basic module for cracks and warping.



#### Designation

- Flat seals for the water meter screw connection
- 2 Seal of the non-return valve

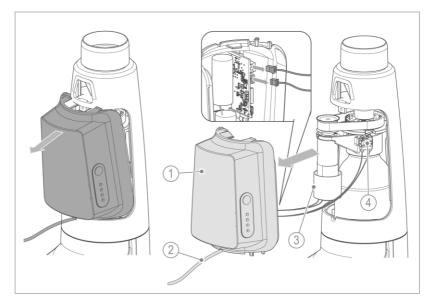
#### Designation

- 3 Non-return valve
- 4 Blind plug with O-ring for dosing valve
- **11.**If necessary, dismantle the cliQlock basic module and check the seals on the water meter screw connections for wear.
- 12. Check the non-return valve for wear.
- 13. Check the blind plug with O-ring for wear.
- 14. Replace worn components.

#### 8.4.3 Check motor unit

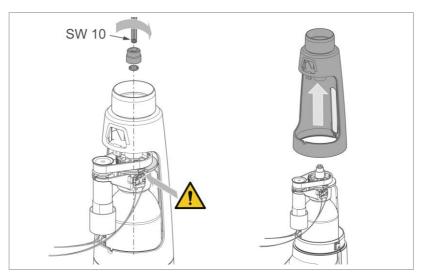


For easier removal and access to the automatic unit with controller, the filter can be turned with the lower part upwards.

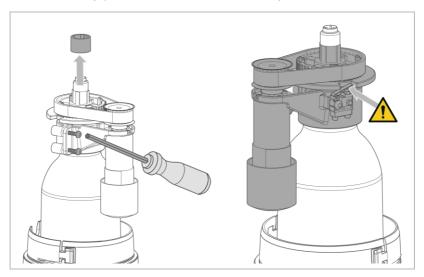


	Designation		Designation	
1	Control unit	3	Motor unit	
2	Mains cable with power supply	4	Microswitch	

- **1.** Pull the control unit from the cover of the filter cylinder. Make sure not to damage the mains cable.
- 2. Disconnect the connector of the motor unit and the microswitch from the circuit board.
- 3. Put the detached control unit to the side.

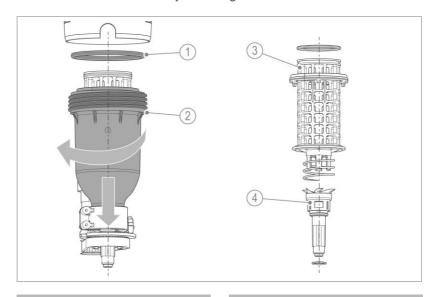


- **4.** Loosen the fastening nut. Firmly hold the motor unit with the microswitch while doing so.
- 5. Carefully pull off the cover of the filter cylinder.



- 6. Check the motor unit for wear and tear.
- 7. Replace the motor unit, if necessary.

You can remove the filter cylinder together with the motor unit.



#### Designation

- O-ring of filter cylinder
- 2 Filter cylinder

#### Designation

- 3 Filter element
- 4 Backwash valve incl. seal
- 8. Unscrew the filter cylinder.
  - a Make sure not to damage the motor unit with the microswitch.
- 9. Check the O-rings and flat seals for wear and tear.
- 10. Check the backwash valve for free movement and damage.
- 11. Check the filter element for damage and dirt deposits.
- 12. Replace worn components (refer to chapter 8.6).
- **13.**Mount the filter and put the installation into operation (refer to chapter 6).

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# 8.5 Spare parts

For an overview of the spare parts, refer to our spare parts catalogue at <a href="www.gruenbeck.com">www.gruenbeck.com</a>. You can obtain the spare parts from your local Grünbeck representative.

# 8.6 Wearing parts



Wearing parts are only allowed to be replaced by a qualified specialist.

Wearing parts are listed below:

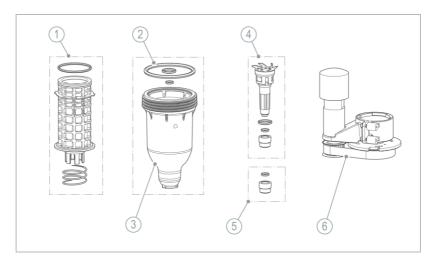
- Seals (O-rings)
   (Seal set for filter cylinder and support mesh, order no. 101625e)
- Filter element
- Backwash valve
- Have the seals replaced in the event of leaks, damage or distortions.

#### 8.6.1 Recommended replacement interval

- 5 years for filter element incl. seal, O-ring filter cylinder, backwash valve incl. seals, fastening nut incl. seal
- 10 years for filter cylinder, automatic drive
- ► Have defective or worn components replaced (refer to chapter 8.7).

### 8.7 Service Kits

# 8.7.1 Service kits for pureliQ:AX



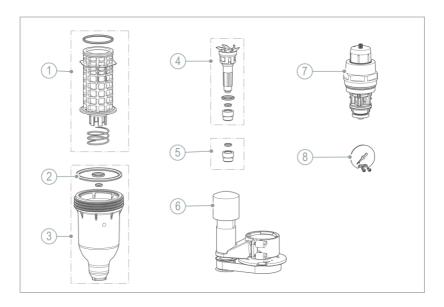
	Designation
1	Filter element
2	O-ring filter cylinder
3	Filter cylinder

	Designation
4	Backwash valve incl. seals
5	Fastening nut incl. seal
6	Automatic drive

Designation	consisting of	Order no.
Service kit I	<ul> <li>Filter element 100 µm incl. seal</li> <li>O-ring filter cylinder</li> <li>Backwash valve incl. seals</li> <li>Fastening nut incl. seal</li> </ul>	101 694e
Service kit II	Service kit I     Filter cylinder     Automatic drive	101 696e

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# 8.7.2 Service kits for pureliQ:ADX



	Designation
1	Filter element
2	O-ring filter cylinder
3	Filter cylinder
4	Backwash valve incl. seals

	Designation
5	Fastening nut incl. seal
6	Automatic drive
7	Pressure reducer
8	Pressure gauge

Designation	consisting of	Order no.
Service kit III	Service kit I     Pressure reducer     Pressure gauge	101 697e
Service kit IV	Service kit III     Filter cylinder     Automatic drive	101 698e

Tools required	Order no.
Strap wrench (to remove the filter cylinder)	105 805
Pipe socket wrench (for pressure reducer cartridge)	104 805
Allen key 10 (for fastening nut)	
TORX T8 (pressure gauge)	
TORX T10 (pressure reducer adjusting cap)	

# 9 Fault



#### WARNING

Contaminated drinking water due to stagnation

- Infectious diseases
- ► Have malfunctions eliminated immediately.

# 9.1 Signals

LED message	Explanation	Re	emedy	
90d 60d	All four LEDs flash Timeout during the backwash procedure (> 115 s) Timeout when starting the backwash			
30d	Valve blocked		Carry out manual back-	
₩ 07d	Motor unit faulty Timing belt defective	•	wash If the message does not	
	Defect of microswitch during backwash		disappear, contact tech- nical service	
	Uppermost LED 90d is flashing	ost LED 90d is flashing		
90d 60d	Defective microswitch	<b>&gt;</b>	Carry out the backwash manually	
30d 07d		•	If the message does not disappear, contact tech- nical service	

### 9.2 Observations

Observation	Explanation	Remedy
Water pressure at the withdrawal point too low	The shut-off valves are not fully open	Fully open the shut-off valves
(pressure loss too high)	The filter element is dirty	Carry out backwash
	The pressure reducer is not set correctly or is defective	Have the pressure re- ducer checked, ad- justed or replaced by the technical service.
Taste of the treated water negatively af-	Excessive filter down-time	Withdraw water for several minutes
fected		Carry out backwash
Solids contained in the filtered water	Excessively high flow through the filter	Check filter element for damage or leaks
	Filter element damaged or not installed cor- rectly	<ul> <li>Have the filter element replaced by technical service</li> </ul>
Water loss in the system (leakage)	Faulty joint	<ul> <li>Check O-rings and seals for deformations or wear and tear</li> </ul>
		<ul><li>Check filter head for damage</li></ul>
		<ul> <li>Check cliQlock basic module checked for damage</li> </ul>
		<ul> <li>Have leaky compo- nents replaced by a qualified specialist</li> </ul>



If a fault cannot be rectified, further measures can be taken by the technical service.

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

# 10 Decommissioning

It is not necessary to take your product out of operation.



In case of longer absences, e.g. holidays, precautionary hygiene measures according to VDI 3810-2 and VDI 6023-2 must be taken in order to maintain drinking water hygiene after downtimes.

# 10.1 Temporary standstill

Should you wish to temporarily shut down your water supply due to a longer period of absence, proceed as follows:

- ▶ Keep the filter connected to mains.
- ▶ Close the shut-off valve downstream of the filter.
- » The filter carries out the backwash processes automatically.
- » The product remains in an operating state generally recognised as safe.

#### 10.2 Restart

- 1. Open the shut-off valve downstream of the filter.
- 2. Perform a manual backwash.
- **3.** Open a water withdrawal point and completely flush the filter and the pipes.

# 11 Dismantling and disposal

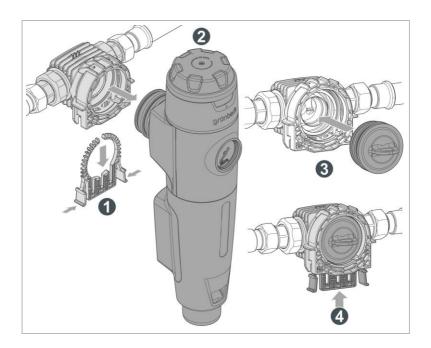
# 11.1 Dismantling



The work described herein represents an intervention into your drinking water system.

- ► Have this work performed by qualified specialists only.
- 1. Close the shut-off valve upstream from the filter.
- 2. Open a water withdrawal point and wait for a few seconds.
- » The pressure in the product and the pipe network is being relieved.
- 3. Close the water withdrawal point.
- 4. Close the shut-off valve downstream of the filter.
- 5. Perform a manual backwash.
- **6.** Pull the plug-in power supply unit from the socket.

#### ► Remove the filter:



- 1. Pull out the cliQlock clamp.
- 2. Pull the filter out of the cliQlock basic module.
- 3. Insert the closing cap into the cliQlock basic module.
- 4. Secure the closing cap with the cliQlock clamp.
- » The filter is removed.

# 11.2 Disposal

Comply with the applicable national regulations.

#### **Packaging**

▶ Dispose of the packaging in an environmentally sound manner.

#### **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 hazards.
- ▶ Dispose of packaging material in an environmentally sound manner.
- Comply with locally applicable disposal regulations.
- If necessary, commission a specialist company with the disposal.

#### Plug-in power supply unit

- ► Remove the plug-in power supply unit with mains cable from the control unit.
- ► Take the plug-in power supply unit to the collection point for electrical and electronic products.

#### **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.

- Use the available collection points 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 <a href="https://www.gruenbeck.com">www.gruenbeck.com</a>.

Notes	

#### 1

# **EU** Declaration of Conformity **( (**

We hereby declare that the product described below, in its design and construction and in the version placed on the market by us, complies with the essential health and safety requirements of the applicable EU directives. This certificate will become invalid if the system is modified in a way not approved by us. The manufacturer bears sole responsibility for issuing this declaration of conformity.

#### Automatic filter | pureliQ:AX, pureliQ:ADX

Order no.: 101000050000 pureliQ:AX; 101000060000 pureliQ:ADX

Serial no.: refer to the type plate

The aforementioned product complies with the following EU harmonisation provisions:

- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- Directive on the Restriction of Hazardous Substances RoHS 2011/65/EU

The following harmonised standards have been applied:

- EN 55014-1:2017
- EN IEC 55014-1:2021 partly
- EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021
- EN 61000-3-2:2014
- EN 62233:2008

- EN 55014-2:2015
- EN IEC 55014-2:2021 partly
- DIN FN 60529:2014-09
- EN 61000-3-3:2013
- EN ISO 12100-1:2010

The following technical standards and technical specifications have been applied:

- DIN FN 13443-1:2007-12
  - Responsible for documentation:

· DIN 19628:2007-07

Mirjam Müller

Manufacturer:

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

Hoechstaedt/Germany, 08/05/2024

T. Vogl

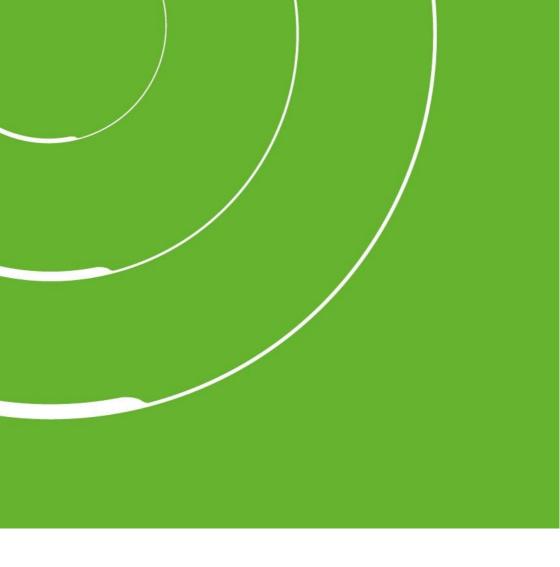
By power of attorney Tobias Vogl Head of Research, Development & Design BA\_100263059900\_en\_015\_pureliQ\_AX-ADX

#### Publisher's information

#### Technical documentation

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

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