



# Bewamat 25A, 75A

Simplex Water Softening Unit

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For You and Planet Blue.

 **BWT**  
BEST WATER TECHNOLOGY

Thank you very much for the confidence that you have shown in us by purchasing a BWT device.



This manual applies only to the product(s) specified on the title page.

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This manual was created, reviewed and approved in German. If there are any discrepancies between the German edition of the manual and editions in other languages, the information in the German document should be given preference.

In the event of inconsistencies, contact our customer service; see chapter „10.2 Your contact at BWT“, on page 25.

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## 1 Safety instructions

### 1.1 General safety instructions

The product was manufactured according to all recognised regulations and technical standards and was in compliance with the relevant legal requirements when it was put into circulation.

Nevertheless, it can pose a risk of personal injury or property damage if you do not observe this chapter and the safety instructions throughout this documentation.

- Read this documentation thoroughly and in full before working with the product.
- Retain the documentation in such a way that it is accessible to all users at all times.
- Always hand over the product to third parties together with the full documentation.
- Follow all of the instructions in relation to the proper handling of the product.
- If you detect damage to the product or the mains supply, stop its operation and notify a service technician immediately.
- Use only accessories, spare parts and consumable materials that have been approved by BWT.
- Adhere to the environmental and operating conditions specified in the “Technical data” chapter.
- Use your personal protective equipment. It ensures your safety and protects you from injury.
- Only perform tasks that are described in these operating instructions or if you have been trained to do so by BWT.
- Perform all tasks in compliance with all applicable standards and provisions.
- Instruct the operator in the function and operation of the product.
- Instruct the operator in the maintenance of the product.
- Instruct the operator in relation to potential dangers that may arise while operating the product.

### 1.2 Scope of the documentation

**This documentation applies exclusively to the product the production number of which is listed in chapter “Technical specifications”.**

This documentation is intended for operators, installers without training from BWT, installers with training from BWT (e.g. drinking water specialists), and BWT service technicians.

This documentation contains important information for fitting the product safely and properly, starting up, operating, using, maintaining, and disassembling the product, and for correcting simple faults independently.

Read this documentation in full before working with the product. Pay particular attention to the chapter “Safety Instructions”.

### 1.3 Personnel qualifications

The installation work described in these instructions requires basic knowledge of mechanics, hydraulics and electrical systems as well as knowledge of the corresponding specialist terms.

To ensure that the device is installed safely, this work must be performed only by a qualified specialist or a trained person under the guidance of a qualified specialist.

A **qualified specialist** is anyone who can assess the work assigned to him or her, identify potential risks, and take suitable safety measures thanks to his or her specialist training, knowledge and experience as well as his or her knowledge of the applicable regulations. A qualified specialist must comply with the applicable specialist regulations.

An **instructed person** is anyone who has been instructed and, if necessary, trained by a qualified specialist in the transferred tasks and the potential risks presented by improper behaviour and who has been educated about the necessary protective equipment and measures.

## 1.4 Transport and installation

To avoid damage during transport to the installation location, do not remove the BWT product from the packaging until you have reached the relevant location. Then dispose of the packaging in the correct manner. Check that the delivery is complete.

If there is a risk of frost, drain all components that convey water.

Lift or transport the product or its components only from the designated suspension eyes or attachment points, if present.

The product must be installed or mounted on a sufficiently strong and level horizontal surface and must be adequately secured against falling or tipping.

## 1.5 Symbols used

	General danger to persons, systems or the environment.
	Danger caused by the mains voltage. Risk of death by electric shock!
	Instructions must be observed for safe operation.
	Remove the mains plug.
	The product must not be disposed of in household waste.
	Recycle the product after decommissioning.

## 1.6 How warnings are displayed

In this document warnings precede any sequence of actions that could cause harm to persons or damage to property. All hazard prevention measures must be followed.

Warnings are displayed as follows:

 <b>SIGNAL WORD!</b>	
	<p><b>Source of hazard</b> (e.g. electric shock)</p> <p><i>Type of hazard (e.g. risk of fatal injury)!</i></p> <ul style="list-style-type: none"> <li>▶ Escape or prevent hazard</li> <li>▶ Rescue measure (optional)</li> </ul>

Signal word	Colour	Severity of the hazard
<b>DANGER</b>		<b>High-risk hazard.</b> Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
<b>WARNING</b>		<b>Hazard with a moderate degree of risk.</b> Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
<b>CAUTION</b>		<b>Low-risk hazard.</b> Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

## 1.7 Product-specific warnings

In the following sections, you will find product-specific warnings whenever you must perform certain safety-relevant actions on the product.

<b>⚠ DANGER!</b>	
	<p><b>Electrical hazard!</b></p> <p><i>Contact with live components will cause electric shock.</i></p> <p>► Unplug device before any service and repair works.</p>

## 1.8 Important notes

	<p>The product must be installed as described in the installation guide in compliance with the general requirements for the supply of water in Germany ["AVB Wasser"] V, section 12.2 by a water supply company or by a party registered in the water supply company's index of fitters.</p>
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**In keeping with Trinkwasserverordnung (German drinking water ordinance), notify residents of the installation of the water softener, explain how it works and which regenerative is used.**

**Using treated drinking water with plants and aquatic animals**

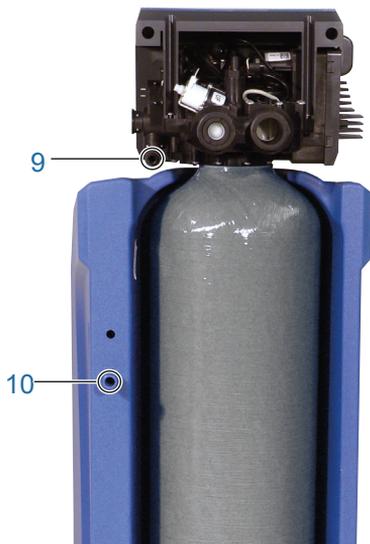
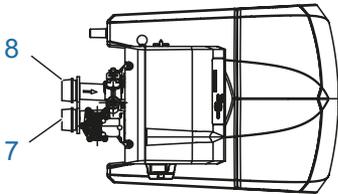
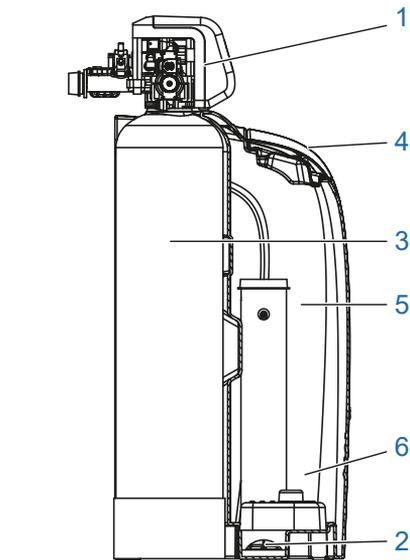
Each species of plant and aquatic animal requires water that contains a special combination of substances. Users of the product should therefore consult the standard literature and check that they can use retreated drinking water for watering plants or for filling ornamental lakes, aquariums or fish ponds.

### Microbiological and sensory quality of the (partially) softened water

The quality of the treated water depends greatly on the conditions under which the product is installed and operated. The most important factors are listed in the following table.

	Unfavourable conditions	BWT recommendations
Inflow water quality	Borderline inflow water quality, which can become even worse within the product	Contact your installer Shorter maintenance intervals
Operating conditions	Long stagnation times and infrequent regeneration	Observe the notes in the operating instructions
Salt quality	Cheap regenerative salts with high proportions of insoluble components	Use regenerative salts in accordance with DIN EN 973 type A
Installation situation and conditions	High ambient temperatures, e.g. near a heating unit Drainage system for regeneration water incorrectly designed	

For all issues about sensory and microbiological quality of the treated water, there is a difference depending on the location, from which these are being evaluated. In terms of an evaluation at an extraction point, the pipe material, water heater or hot water storage tank, among other things, could have a decisive impact on the water quality.



## 2 Scope of delivery

- Bewamat A water softening unit

### 2.1 Product overview

1	Manifold control valve with microprocessor controller
2	Brine valve
3	Softening column with ion exchanger
4	Cover
5	Storage area for regenerative
6	Brine cavity
7	Softened water output
8	Hard water inlet
9	Flushing water connection
10	Overflow
	Power supply unit with cable and mains plug
	2 m flushing water hose
	2 m overflow hose 18 x 24
	Fixing material

### Optional extras

	Order no
AQA stop 3/4"	11825
AQA stop 1"	11826

## 3 Use

### 3.1 Intended use

Bewamat A is suitable for partial softening of drinking and service water, to protect the water pipes and the connected fittings, appliances, boilers etc. from malfunctions and damage caused by lime incrustation.

The product size must correspond to the expected conditions of use. Information on this can be found in DIN 1988-200 and in the technical data in Chapter 12 of these Installation and Operating Instructions.

If the product is intended for commercial use, it must be checked / approved by a BWT consultant.

Operation of the product with regular functional checks as well as the execution of the necessary maintenance measures for the safe operating condition in compliance with the operating conditions on which the planning and installation are based.

### 3.2 Foreseeable misuse

A product that has not been used for a longer period of time (7 days in accordance with DIN EN 806-5) is not being operated as intended.

Not adhering to the ambient and operating conditions in Chapter Technical data.

Not adhering to the prescribed maintenance and service intervals.

Using spare parts and consumables not approved by BWT.

### 3.3 Disclaimer

The manufacturer is released from any liability if the customer intentionally or forcibly removes guards or safety devices, if the customer wilfully modifies or circumvents the same, or if the customer does not follow the instructions in this operating manual or on the system.

### 3.4 Other applicable documentation

- Privacy policy
- Safety data sheets for the consumables
- Installation and operating manuals for the installation accessories

## 4 Function

### 4.1 General

Bewamat 25A/75A is a simplex water softening unit based on the ion exchange principle. The system is filled with organic ion exchanger material.

### 4.2 Operation

The product is preset. In case less performance is necessary, this can be set by after-sales service.

With Bewamat 75 A, 2 capacity levels can be set so that the product is suitable for a wider range of applications.

### 4.3 Regeneration

#### Intelligent quantity-dependent regeneration:

When the product is started, the available supply of softened water is programmed (depending on the hardness of the drinking water).

At a user-defined time (e.g. at night), the product checks whether the remaining supply of softened water is sufficient for the following day.

If not, the softening column is regenerated in order to refill the supply of softened water up to 100%.

In the event of a power failure, the data and the time are kept (about 1 year).

The product is equipped with a device that disinfects the ion exchange resin during the regeneration. Spring-loaded non-return valves protect all water connections on the inlet side of the product.

No soft water is available during a regeneration process.

The product complies with all relevant national and international standards.

### 4.4 Operating the product

Operation and display are carried out using the display and buttons. During start-up, the local drinking water hardness and the desired output water hardness are entered into the controller.

### 4.5 Stagnation management

If the capacity is not used up within 72 hours, the control system triggers regeneration.

### 4.6 Safety

Data and time are retained in the case of a power failure (approx. 1 year).

## 5 Installation conditions

### 5.1 General

The product must be installed as described in the installation instructions and in compliance with AVB Wasser V, §12.2 (general requirements for the supply of water in Germany). It must be installed by a water utility company or by an installation company registered in the water utility company's index of installers.

Observe all applicable local installation regulations, general guidelines, sanitary requirements and technical specifications.

### 5.2 Installation site and environment

Water softeners may not be installed in systems that provide water for fire extinguishing purposes.

The installation site must be kept free of frost, must protect the product from chemicals, paint, solvents and fumes and allow easy connection to the water network. In addition, the installation room must have a moisture-resistant surface. Building sealing measures must be in place, such as special joint materials and sealing tapes.

A connection to the sewage system, a floor drain and a separate mains connection (230 V/50 Hz) must be located in the immediate vicinity.

If there is no floor drain, the protective function of the aqua-stop integrated in the product (depending on the model) or the internal aqua-stop function may be sufficient. However, this is at the discretion of the property insurer. Clarification is the responsibility of the product operator. If there is no floor drain and the product does not have an integrated aqua-stop function, an on-site safety device must be installed upstream of the product in the direction of flow. The safety device (e.g. BWT AQUA stop external) must shut off the water supply when de-energised in order to prevent water from escaping from the product in the event of product damage.

The rated mains power (230 V/50 Hz) and the required operating pressure must be present at all times. A separate means of protection against a shortage of water is not provided and must be installed on site if desired.

### 5.3 Feed water

The inflow water must always meet the specifications of the Trinkwasserverordnung (German Drinking Water Ordinance) or Directive (EU) 2020/2184 on the quality of water intended for human consumption.

The total dissolved iron and manganese may not exceed 0.1 mg/l.

The hard water to be fed into the product must always be free of air bubbles. Install a bleed device if necessary.

If the treated water is intended for human consumption as defined in the Trinkwasser-verordnung (German drinking water ordinance), the ambient temperature must not exceed 25 °C.

If the treated water is intended for industrial purposes only, the ambient temperature must not exceed 40 °C.

The product's maximum operating pressure must never be exceeded (see technical specifications). If the network pressure is higher, a pressure reducer must be installed upstream of the product.

The product requires a minimum operating pressure to function (see chapter Technical specifications).

During pressure fluctuations and surges, the sum of the pressure surge and the standing pressure must not exceed the nominal pressure. The positive pressure surge must not exceed 2 bar and the negative pressure surge must not be less than 50 % of the self-adjusting flow pressure (see DIN 1988-200/3.4.3).

Continuous operation of the product with water containing chlorine or chlorine dioxide is possible if the concentration of free chlorine/chlorine dioxide does not exceed 0.5 mg/l.

Continuous operation with water containing chlorine/chlorine dioxide will cause premature ageing of the ion exchange material. A water softener reduces the concentration of free chlorine and chlorine dioxide. In other words, the concentration in the outflow of a water softener is generally considerably lower than in the inflow.

The formation of a vacuum in the product, for example by a downstream pressure booster system, must be avoided.

## 5.4 Installation

The pipeline network must be flushed before the product can be installed.

You must check whether a mineral metering device needs to be installed downstream from the product for the purpose of preventing corrosion.

Use corrosion-resistant pipe materials for installation. Pay attention to corrosion-causing chemical properties when different pipe materials are combined (mixed installation), even in the inflow direction upstream of the product.

A protective filter must be installed in the direction of flow 1 m upstream of the product. The filter must be functional before the product is installed. This is the only way to ensure that dirt and corrosive products do not enter the product.

Test sample extraction points must be installed upstream and downstream of the product, according to the specifications of VDI 6023.

The hose attached to the overflow point of the regenerative container and the flushing water hose must be routed at an incline to the sewage system or connected to a pump.

According to EN 1717, the flushing water hose and the overflow hose must be connected to the sewage system at a specified distance above the highest possible waste water level. (Distance is greater than the diameter of the drain pipe).

If the flushing water is fed into a pump, it must be designed for a water volume of at least 2 m<sup>3</sup>/h or 35 l/min for units for building services and at least 3 m<sup>3</sup>/h or 50 l/min for Rondomat and AQA perla professional units.

If the pump is used for other units concurrently, it must be of a larger size to suit the units' water output volumes.

The pump must be salt-water resistant.

## 5.5 Operation

The performance specifications of the product must match the expected usage conditions. Related information can be found in DIN 1988-200 and in the technical specifications.

After periods in which little or no water is tapped, e.g. during holidays, you must fully open the tap for at least 5 minutes before you can use the water again (see the section on stoppages in the operating instructions).

The microbiological quality of the softened water is also determined by the quality of the regenerative used.

## 5.6 Prerequisite for function and warranty

Softening plants or ion exchange plants require regular function monitoring, maintenance and the replacement of functionally relevant parts after certain time intervals.

The required quantities of dosing and regenerating agent are subject to consumption depending on the operating conditions.

Softening systems must be cleaned and, if necessary, disinfected regularly. The maintenance intervals can be found in the installation and operating instructions. We recommend the conclusion of a maintenance contract.



## 6 Installation

**⚠ GEFAHR!**



**Mains voltage!**

*Risk of death by electric shock!*



▶ **Do not connect** the product to the power-supply before starting-up.

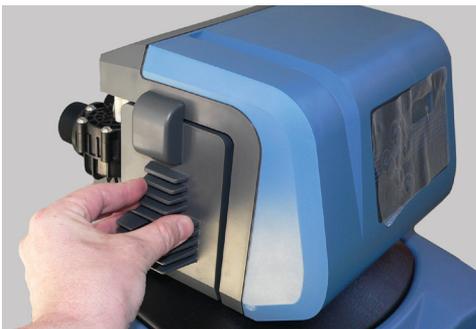
▶ **Unplug device** before any service and repair work.

▶ **If the mains cable** of the product becomes damaged, you must replace it with an original BWT cable.

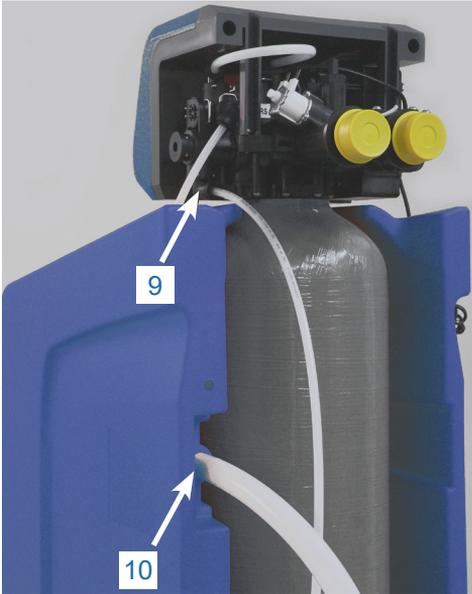
Place and align the softening column with control valve behind the cabinet.



Run the the brine hose from the inside though the bore to the outside and insert it as far as it will go (a depth of about 15 mm) in the connection angle.



Put the grey cover onto the left side of the control valve.



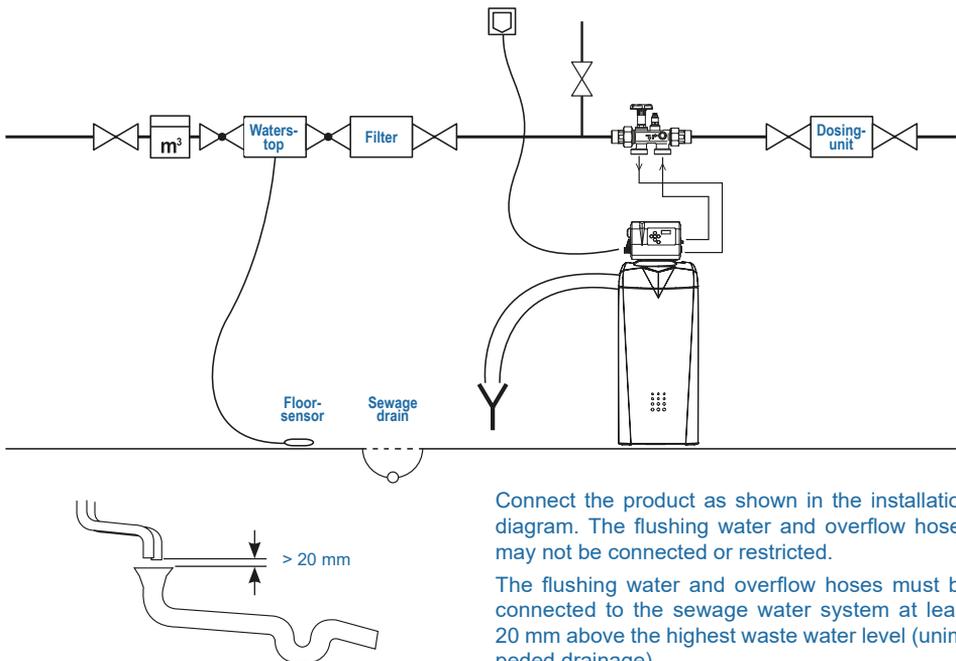
Firmly attach the flushing water hose into the flushing-water connection (9).

Route the flushing water hose at an incline to the sewage system connection (drain) and secure the end with the supplied fixing material to prevent it moving around when under pressure.

Put the overflow hose (18 x 24) on the overflow (10). Secure it with cable ties and route it with an incline of at least 10 cm to the sewage system connection (drain).

## 6.1 Installation diagram

Illustration serves as an example. The symbols are shown in accordance with DIN EN 806-1. The individual installation must be adapted to local conditions.



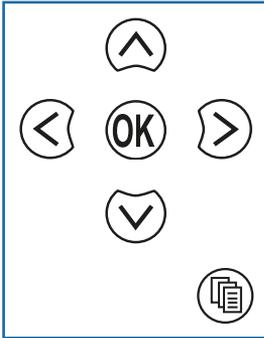
Connect the product as shown in the installation diagram. The flushing water and overflow hoses may not be connected or restricted.

The flushing water and overflow hoses must be connected to the sewage water system at least 20 mm above the highest waste water level (unimpeded drainage).

## 7 Start-up

### 7.1 Operation of the controller

#### Keypad



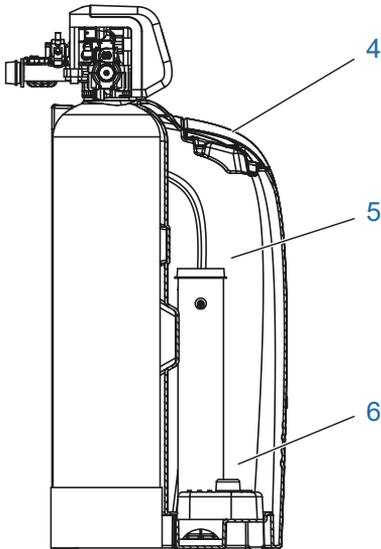
#### Function of keys

	Confirms entries
	Moves cursor, changes entries
	Moves cursor
	Change mode between operation and programming

#### Operating display

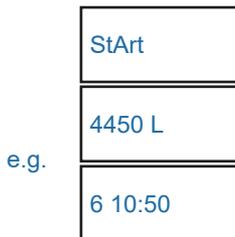
	Display shows either <b>day and time</b> or <b>remaining capacity</b> in litres.
	Dots are flashing while in programming mode.
	<ul style="list-style-type: none"> <li>1 = Monday</li> <li>2 = Tuesday</li> <li>3 = Wednesday</li> <li>...</li> </ul>

## 7.2 Preparing the brine



- Check that the product has been properly installed.
- Remove cover (4).
- Pour regenerative (salt tablets according to DIN EN 973 type A, e.g. Clarosal or Sanisal/Sanitabs) into the storage area (5).
- Fill up the brine cavity (6) with about 4 litres (Bewamat 25 A) or 15 litres (Bewamat 75 A) with drinking water.

**Note:** Observe the following if consumption of a large quantity of softened water is expected after start-up: The product requires about three hours for the brine to form.

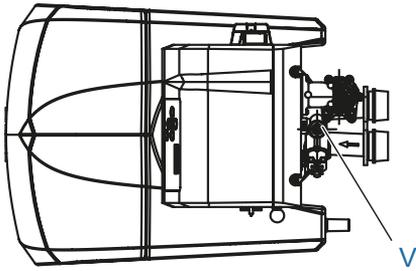


lbn



- Insert mains plug. Water supply must remain closed. The display shows **StArt** and then alternates between the remaining supply of softened water and the day of the week (1-7) / time.
- Allow basic fixing to finish (about 40 sec.). The running noise stops.
- For automatic regeneration, press the OK button to interrupt.
- Open the water supply.
- Initiating a start-up flush
- Press and hold Change Mode button until **lbn** appears in the display. Flushing occurs for 1 minute (flush time t1). The valve then moves into operating position.
- The product is ready for operation.

The capacity and the blending valve are preset. A readjustment is only necessary for especially hard water (hardness greater than 22° dH) or for water of medium hardness (less than 14° dH).



## 8 Operation

### 8.1 Setting the hardness of blended water

The product is preset to 4° dH.

To test the water hardness, allow the nearest cold water tap to run for a while (about 500-600 l/h) and check the hardness of the blended water using the AQA test hardness tester. Adjust with the blending valve V until the desired value (BWT recommendation 4 - 8° dH) is reached.

The German Drinking Water Ordinance stipulates a sodium limit of 200 mg/l. This limit has been set so low so that people on a low sodium diet can still drink water from the product and use it for cooking.

#### Sodium content of partially softened water

The sodium content increases by 8.2 mg/l if the hardness of drinking water is decreased by 1° dH.

Hardness of drinking water – hardness of blended water x 8.2 mg/l = increase in the sodium content.

### 8.2 Handing over the product to the operator

If there is a delay between the installation/start-up of the product and transfer to the operator, a manual regeneration must be performed.

The operator must be told how the product works as well as how to operate and inspect it. Ensure that the operator receives the installation and operating manual.

### 8.3 Setting the supply of softened water

#### The product is preset to an:

Inlet water hardness of 20 ° dH

Blended water hardness of 4 ° dH

#### The supply of softened water is set if

- the capacity of the product is changed
- another inlet water hardness is present
- another blended water hardness is desired

#### Calculating the supply of softened water:

$$\text{Supply of softened water} = \frac{K \times 1000}{E - V}$$

in litres

$$K \text{ for Bewamat 25 A} = 25 \text{ m}^3 \times \text{° dH}$$

$$K \text{ for Bewamat 75 A} = 75 \text{ m}^3 \times \text{° dH}$$

E = Inlet water hardness in ° dH

V = desired and set blended water hardness in ° dH

e.g.

SEt		Press Change Mode button Display indicates <b>SEt</b>
Time		
4688 L		
		Display flashes
4688 L	 	Set the calculated soft-water supply
3750 L		The new supply of softened water is not displayed until after the next regeneration.
3750 L		Press Change Mode button to end programming

## 8.4 Setting the time/day of the week

SEt



Press Change Mode button  
Display indicates **SEt**

4 08:32



The flashing numbers can be changed.



5 07:43



Changes the number

Moves the cursor

e.g.

5 07:43



Current day of the week and time



Press Change Mode button to end programming.

## 8.5 Changing the time of regeneration

Press Change Mode button  
Display indicates **SEt**

SEt



Press OK button



e.g.

5 07:43

Press Cursor button



e.g.

r 09:15

Setting the regeneration time

r 09:15

The flashing numbers can be changed.



Changes the number



Moves the cursor



e.g.

r 02:00

New regeneration time



r 02:00

Press Change Mode button to end programming.



## 8.6 Starting regeneration manually

Press and hold OK button for about 4 sec. until regeneration begins

e.g.

26:45



The display shows alternating remaining regeneration period in minutes (with flashing symbol) and **rEG On**.

rEG On

SALt

## 8.7 Adding regenerative

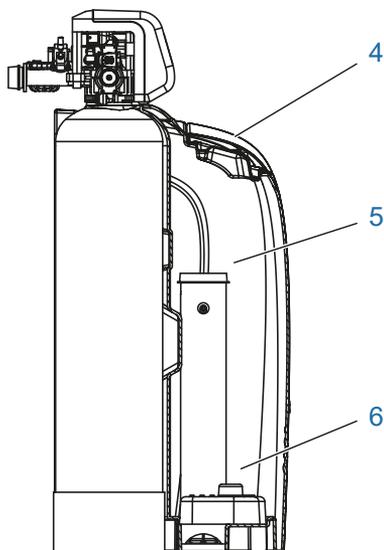
Refill the regenerative no later than when the sieve base becomes visible or when **SALt** is indicated on the display. All commonly available regeneration salts (salt tablets in accordance with DIN EN 973 type A, e.g. Clarosal or Sanisal/Sanitabs) can be used.

- Open the cover (4). Pour regenerative into the storage area (5).
- Press **OK** button  
The **SALt** display disappears.



Refill the product in such a way that no dirt can get into the storage area (5) (if necessary, clean the packages containing the regenerative before use).

In case of any soiling clean the storage area or brine cavity (6) with drinking water thoroughly.



4433 L

## 8.8 Service message

A flashing litre display indicates that it is time for servicing. The service message appears after 150 regenerations.

Please contact after-sales service.

## 9 Operator responsibilities

You have purchased a product that is durable and easy to service. However, certain duties must be carried out. Flawless function requires:

- Operation as intended
- Regular checks and servicing

Check the quality and pressure conditions of the inflow water regularly with your water supplier. If the water quality changes, the settings may need to be changed. Consult a specialist in this case.

To ensure the proper functioning and safety of the product, regular inspections must be carried out by the operator (every 2 months), and routine maintenance (EN 806-5) must be performed by the BWT after-sales service staff or a fitter authorised by BWT to carry out maintenance (every 6 months).

Wearing parts must also be replaced after the prescribed intervals in order to guarantee functionality and fulfil the warranty conditions.

### 9.1 Intended operation

The intended operation of the product includes start-up, operation, decommissioning and, if necessary, recommissioning. Intended operation of the product and drinking water installation requires regular checks, servicing and operation (water flows through the product) in accordance with the operating conditions for design and construction, including simulated sampling (manual or automated rinsing), as appropriate. If simulated sampling is not possible, the product must be taken out of service.

### 9.2 Checks

#### (Carried out by the operator)

BWT recommends that the operator regularly carry out the following checks and record the results:

- **Water quality.** Depending on the product, inflow water values and set outlet water values may need to be corrected.
- **Water pressure.** If the pressure conditions change, the product settings may also have to be changed.
- Operating condition of the product.
- Check whether messages have been issued.
- Watertightness.

### 9.3 Inspection

(Carried out by the operator in accordance with EN 806-5)

Inspection activities	Interval	Note for products <b>WITHOUT</b> active BWT DES registration	Note for products <b>WITH</b> active BWT DES registration
Check/refill regenerative	According to use	Required	Required
Check brine containers for soiling	Every 2 months	Required	Required
Check for leaks, visual inspection	Every 2 months	Required	Required
Functional test/control unit display	Every 2 months	Required	Not required
Test regenerative consumption depending on the treated water	Every 2 months	Required	Not required
Check the setting of the regeneration waste water system	Every 2 months	Required	Required
Check the counting function of the water meter	Every 2 months	Required	Not required
Test the regeneration process	Every 2 months	Required	Not required
Clean the brine container and the internal surfaces that come into contact with water	Every 6 months	Required	Required

## 9.4 Maintenance in accordance with EN 806-5

(Carried out by BWT after-sales service or an authorised technician in accordance with EN 806-5)

In addition to all inspection activities, maintenance work on the assemblies listed below is required every 6 months by BWT after-sales service or a specialist trained by BWT. A detailed maintenance manual can be requested from the qualified fitter at BWT. We recommend that you enter into a maintenance agreement with the BWT after-sales service department or your fitter.

Assembly (the assemblies exist or do not exist depending on the type and design of a BWT product)	
Cleaning and possible sanitisation	
1.1	Entire hydraulic unit
1.2	End shield
1.3	Gears
1.4	Drive motor
1.5	Spool
1.6	Red/green injector
1.7	Electrolysis cell
1.8	Locking pin
1.9	Waste water elbow

	JG hoses
2.1	Blending
2.2	Water meter cover
2.3	Impeller
2.4	Guide baffle
2.5	Non-return valve
2.6	Bypass valve
2.7	Filler plug
3.1	Brine meter
3.2	Brine meter solenoid valve
5.1	Sieve base
5.2	Low salt gauge
5.3	Brine level switch
6.1	AQA Stop floor sensor
6.2	AQA test

## 9.5 Replacement of parts

The operator must ensure that parts that are subject to wear and aging during the life of the product are replaced by a qualified fitter.

Details of the replacement cycles can be found in the maintenance manual from BWT.

## 10 Troubleshooting

Fault	Cause	Action
SALt is indicated on the display	<p>Insufficient regenerative in the storage area (5).</p> <p>Insufficient pipeline pressure resulting in insufficient suction speed.</p>	<p>Refill regenerative and press the OK button until the SALt display goes out.</p> <p>Press the OK button to acknowledge the fault.</p> <p>If the fault occurs again, contact after-sales service.</p>
Product not supplying softened or blended water.	<p>No regenerative in the storage area (5).</p> <p>Power supply interrupted.</p> <p>Blending adjusting spindle (V) not set correctly.</p>	<p>Refill regenerative, then press the OK button until the SALt display goes out.</p> <p>Wait three hours for the brine to form and start manual regeneration.</p> <p>Establish electrical connection.</p> <p>Set as described in the Start-up section "Setting the hardness of blended water".</p>
Product not supplying softened water or the flow is insufficient.	Inlet pressure is too low.	Increase inlet pressure (set pressure reducer if necessary) and start manual regeneration
Coloured flushing water at start-up	Abrasion particles of the exchanger resin.	Repeat start-up flush.

If the fault cannot be remedied by following these steps, please contact our after-sales service department and quote the series and production number (see type plate)..

## 11 Warranty

If the product malfunctions during the warranty period, please contact your contract partner, the installation company, and indicate the model type and production number (see specifications or the type plate on the product).

Non-compliance with the installation conditions and the responsibilities of the operator, as well as improper use leads to the loss of warranty and exclusion of liability.

### 11.1 Product returns

Product returns will not be processed without a return number (RMA no.). In Germany, call our after-sales service in Schriesheim to receive a return number.

Unauthorised returns of goods will not be accepted by BWT. Please always contact your contract partner first.

### 11.2 Your contact at BWT

You can reach us at the following number:

<b>Service acceptance</b>	<b>+49 6203 7379</b>
Monday to Thursday:	6:30 a.m. to 6:00 p.m.
Friday:	6:30 a.m. to 4:00 p.m.

## 12 Decommissioning and disposal

### 12.1 Decommissioning

The product may only be shut down and dismantled by qualified specialists.

Observe all applicable safety regulations when dismantling the system.

### 12.2 Disposal

#### NOTE



► This product may not be disposed of in household waste.

► At the end of the product's life cycle, ensure that it is properly disposed of or recycled.

► Observe the legal disposal guidelines for the country in which the product is used.

► The following materials are used in the product: Metal, plastics, electronic components.



#### Disposal of the transport packaging

Recycling the packaging materials saves resources and reduces waste. Return the packaging to your specialised dealer.

#### Disposal of old devices

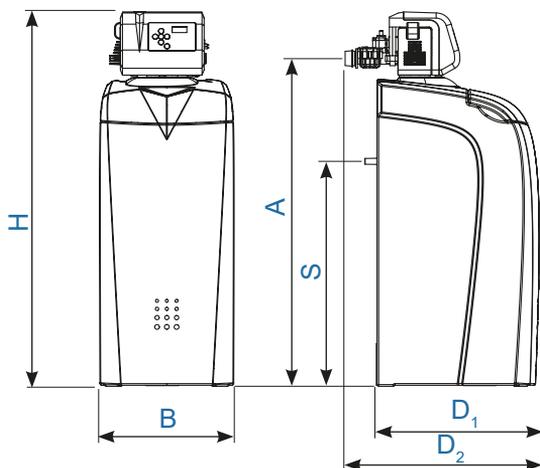
Do not dispose of the old device in household waste. Use the official municipal collection and returns facilities for electrical and electronic waste or return the device to your dealer. By law, you are responsible for deleting any personal data on the old device before disposal.

#### Disposal of old batteries

Batteries must never be disposed of in household waste. Batteries not sealed inside the device must be removed and brought to a suitable collection point.

## 13 Technical specifications

Bewamat	Type	25 A	75 A
Nominal connection width	DN	32 (G 1 1/4" AG)	
Nominal pressure (PN)	bar	10	
Operating pressure	bar	2.5 - 8.0	
Nominal flow according to EN 14743	m <sup>3</sup> /h	1.4	1.8
Pressure loss at nominal flow rate	bar	1.0	
Max. flowrate	m <sup>3</sup> /h	1.4	2.5
Nominal capacity according to EN 14743	m <sup>3</sup> x ° dH (mol)	25 (4.5)	75 (13.4)
Regenerative consumption per regeneration, ca.	kg	1.2	3.5
Regenerative water requirement, ca.	Liter	55	128
Quantity of resin	Liter	8	21
Quantity of regenerative, max.	kg	15	50
Power supply	V/Hz	230/50	
Power in watts	Watt	20	
Unit voltage	V/AC	18 ~	
Permissible voltage peaks, max.	KV	1	
Protection class		IP53	
Water/ambient temperature	°C	5 - 30 / 5 - 40	
Humidity		non condensating	
Height H x Width W, ca.	mm	640 x 390	1090 x 390
Depth D1 / D2, ca.	mm	460 / 560	460 / 560
Connection height A	mm	500	960
Height of overflow S	mm	280	650
Connection width	mm	60	
Min. sewage system connection	DN	50	
Approx. operating weight	kg	40	100
<b>Production number CN (China)</b>	<b>PNR</b>	<b>6-501179</b>	<b>6-501180</b>
<b>Production number</b>	<b>PNR</b>	<b>6-501177</b>	<b>6-501178</b>



## 14 Standards and legal regulations

In their most current amended version

**The following standards and legal regulations must be observed depending on the intended use:**

General administrative framework regulation on minimum requirements for the discharge of waste water into bodies of water ("Rahmen-AbwasserVwV") appendix 31 - water treatment, cooling systems, steam generation

German act for promoting closed substance cycle waste management and ensuring environmentally compatible waste disposal ("Kreislaufwirtschafts- und Abfallgesetz")

Law on the management of water resources ("Wasserhaushaltsgesetz")

German ordinance on the quality of water for human consumption ("Trinkwasserverordnung")

EN 806, specifications for drinking water installations

DIN 1988 standards, specifications for drinking water installations

DIN EN 1717, protection of drinking water from contaminants in the drinking water supply system

The system complies with DIN EN 14743, water conditioning systems inside buildings - softeners and DIN 19636-100 softeners (cationic exchange) for drinking water installations - part 100: requirements for application of softeners in accordance with DIN EN 14743.

VDI/DVGW 6023 hygiene in drinking-water installations

## 15 Machine and maintenance log

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Start-up	Hardness of drinking water inlet _____ ° dH	Network pressure _____ bar
	Water meter reading _____ m <sup>3</sup>	Date of initial start-up _____
Personnel trained		
Maintenance	Hardness of drinking water inlet (° dH)	
	Hardness of drinking water outlet (° dH)	
	Water meter reading (m <sup>3</sup> )	
	Brine extraction time (min.)	
	Fault memory read out?	
Date/name		
Operator	Regenerative refilled at: (date)	
	Water meter reading (m <sup>3</sup> )	
Comments		

# EU-Konformitäts-Erklärung EU Declaration of Conformity UE Déclaration de conformité

im Sinne der Richtlinien	Niederspannung EMV RoHS	2014/35/EU 2014/30/EU 2011/65/EU
according to the directives	Low voltage EMC RoHS	2014/35/EU 2014/30/EU 2011/65/EU
en accord avec les directives	Basse tension CEM RoHS	2014/35/UE 2014/30/UE 2011/65/UE

Produkt / Product / Produit: **Simplex-Weichwasseranlage  
Simplex-softening unit  
Simplex systèmes d'adoucissement d'eau**

Typ. Baureihe / Type, Series / Type, Série: **Bewamat 25A/75A**

ist entwickelt, konstruiert und gefertigt in Übereinstimmung mit den oben genannten Richtlinien, in alleiniger Verantwortung von

is developed, designed and produced according to the above mentioned directives at the entire responsibility of

est développé, conçu et fabriqué en accord avec les directives mentionnées ci-dessus sous l'entière responsabilité de

**BWT Wassertechnik GmbH, Industriestr. 7, 69198 Schriesheim**

(WEEE-Reg.\_Nr. DE 80428986)



Schriesheim, Mai 2024

Dr. Monique Bissen

Ort, Datum / Place, date / Lieu et date

Unterschrift (Geschäftsleitung)  
Signature (Management)  
Signature (Direction)





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