

Device must be installed
immediately downstream
of an AS/NZS 2845.1 backflow
prevention valve!
Please contact your plumber!

Caution! Do not install or
expose the product to direct
sunlight or UV!



Bewamat 25A, 75A

Simplex Water Softener

Suitability:

Suitable for domestic and commercial
installations to soften incoming water
and improve the service life of plumbing
fixtures and fittings.

Product Approval:

The product is certified to ATS
5200.103

WaterMark
ATS 5200.103
LIC WM-020272



Changes reserved!



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



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1 Safety Instructions

1.1 General safety instructions

The product has been manufactured according to the generally recognised rules and standards of technology and complies with the legal regulations in force when it was brought into circulation.

Nevertheless, there is still a risk of damage to persons or property if you do not follow this chapter and the safety instructions in 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.
- Maintain 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 of the 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 whose production number is listed on the title page and in chapter 12 “Technical data”.

This documentation is intended for operators, end users, fitters without training from BWT, fitters 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 internally.

Read this documentation in full before working with the product. Pay particular attention to the safety instructions chapter.

1.3 Personnel qualifications

The installation work described in these instructions requires basic knowledge of mechanics, hydraulics, and electrics, 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.






1.4 Transport and installation

Whenever possible, transport the plant as a complete unit. If the plant has to be dismantled for transport, check the completeness of the individual parts. When there is a risk of frost, empty all water supply parts.

Always lift and transport the plant or plant parts only at the provided transport eyes and/or attachment points.


The plant must be installed or mounted on a sufficiently stable and level vertical or horizontal base and sufficiently protected against falling or overturning.


1.5 Symbols used

	This symbol indicates general risks to persons, machines, or the environment.
	This symbol indicates general risks due to the mains voltage. Risk of death by electric shock!
	This symbol indicates information or instructions which must be observed to ensure safe operation.
	This symbol indicates information that is important to follow.
	Disconnect the mains plug before all service and repair work.

1.6 How safety instructions are displayed

In this document safety instructions precede any sequence of actions that could cause harm to persons or damage to property. All hazard prevention measures must be followed. Safety instructions are displayed as follows:

 **SIGNAL WORD!**



Source of hazard
(e.g. electric shock)


Type of hazard
(e.g. *risk of fatal injury!*)


- ▶ Escape or prevent hazard
- ▶ Rescue measure (optional)

Signal word / colour	Indicates the severity of the hazard
Warning symbol	Calls attention to the hazard
Source / type of hazard	Indicates the type and the source of the hazard
Consequences	Explains the consequences of not following the safety instructions
Hazard prevention measure	Explains how to avoid the hazard

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

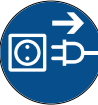
1.7 Product-specific safety instructions

 **DANGER!**



Mains voltage!

Risk of death by electric shock!



- ▶ Unplug device before any service and repair work.
- ▶ If the mains cable of the unit becomes damaged, you must replace it with an original BWT cable.

1.8 Important notes



The unit must be installed as described in the installation guide.

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 unit 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.

The control unit in your product contains a long-lasting battery.

Do not dispose of single-use or rechargeable batteries in household waste.

You must bring batteries to a designated collection point. Used batteries contain valuable raw materials that can be recycled.

Microbiological and sensory quality of the (partially) softened water

The quality of the treated water depends greatly on the conditions under which the unit 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 unit	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 salt that is suitable for water softeners
Installation situation and conditions	High ambient temperatures, e.g. near a heating unit Drainage system for regeneration water incorrectly designed	

When determining whether there is a problem with the sensory or microbiological quality of the treated water, it is important where in the system the quality is measured. For example, if the quality is measured at the tap, the water quality may be affected by the pipe material or by the presence of a water heater or hot water storage tank.

2 Scope of Delivery

Bewamat A water-softening unit, with:

- 1 Multiway 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

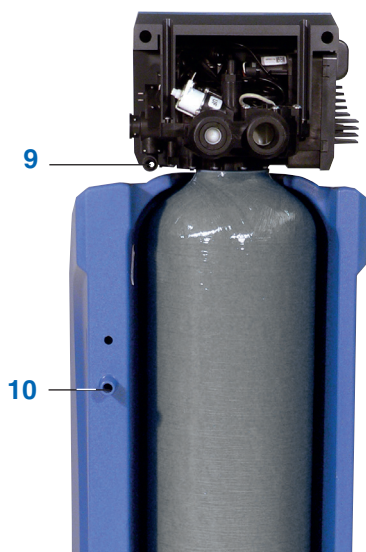
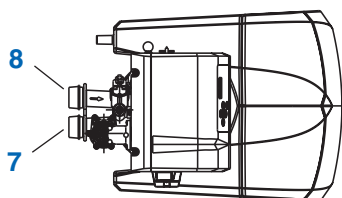
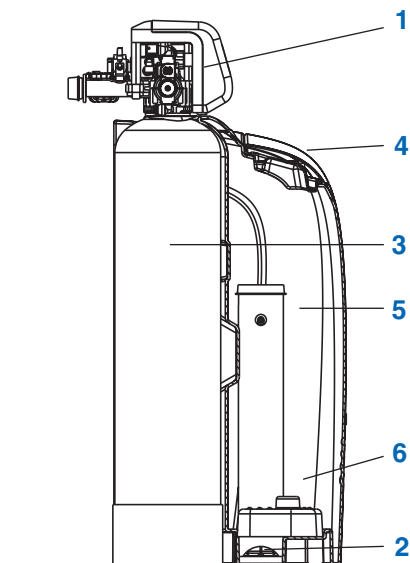
Power supply unit with cable and mains plug
 2 m flushing water hose
 2 m overflow hose 18 x 24
 Fixing material

Optional recommended extras:

Union Set Brass 20 mm - Reece Product Code: 1906945. The fitting will reduce from 32mm BSP Mi down to 20mm Fi.



The product complies with the requirements of ATS 5200.103; Technical Specification for plumbing and drainage products Part 103: Water treatment systems (other than those specified in AS/NZS3497). Watermark Licence: IAPMO-WM-022072



3 Intended Use

Bewamat A is a system designed for softening or partially softening drinking and service water.

Bewamat A minimises malfunctions and damage due to calcification in water pipelines and the connected fittings, equipment, boilers etc.

4 Function

The unit operates according to the principle of intelligent regeneration.

Intelligent quantity-dependent regeneration
When the unit 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 unit 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 unit 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 unit.

Automatic activation of regeneration

If the capacity is not used up within four days, the electronic system triggers a regeneration.

The system complies with all relevant national and international standards.

Only for Bewamat 75 A

Two capacity levels can be set on the controller, making the unit suitable for larger applications.

The unit is preset for optimum performance. However, if unit is dealing with a unique water quality, and less performance is noticed, the units preset functions can be altered. This can be altered by your installer. Please contact your local Reece Branch for further information if required.

5 Installation Requirements

General information

The unit must be installed as per AS/NZS 3500.1 (Australian national plumbing code).

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

Qualified Staff

Only authorized, instructed and specially trained personnel (professional plumber) are allowed to install, start up and maintain the filter system.

- **Authorized Personnel**
Are to have the Instructions about the assigned tasks and possible risks in case of misuse.
- **Professional**
Professionals who are able to install, start up and maintain the filter system, because of their training, experience and knowledge of applicable guidelines and codes.

Site of installation and surrounding area

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

Make sure that the site of installation is frost-proof, guarantees protection of the unit against chemicals, dyes, solvents and vapours and enables easy connection to the water supply.

Device must be installed immediately downstream of an AS/NZS 2845.1 backflow prevention valve! Please contact your plumber!

Caution! Do not install or expose the product to direct sunlight or UV!

A wastewater connection, a floor drain and a separate network connection (230 V/50 Hz) must be close by. The power supply must be permanently guaranteed.

If the treated water is exclusively for use in technical applications, the ambient temperature must not exceed 40°C.

Separate protection against water deficiencies does not exist and must be fitted locally – if required.

Feed-in water

This system is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

The total dissolved iron and manganese may not exceed 0.1 mg/l. The hard water to be fed into the unit must always be free of air bubbles. If necessary, an de-airation device must be installed.

The necessary operating pressure must always be guaranteed.

A minimum operating pressure is required for the unit to function (see technical data).

The maximum operating pressure of the unit must not be exceeded (see technical data). If the network pressure is higher, then a pressure reducer must be installed upstream of the unit.

In the case of pressure deviations and pressure surges, the total of the pressure surge and standing pressure must not exceed the nominal pressure, meaning the positive pressure surge must not exceed 2 bar and the negative pressure surge must not fall beneath 50% of the adjusted flow pressure.

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

However, continuous operation with water containing chlorine/chlorine dioxide causes the ion exchanger resin to age prematurely. A softening unit reduces the concentration of free chlorine and chlorine dioxide. In other words, the concentration in the outflow of a softening unit is generally considerably lower than in the inflow.

Installation

The pipe network must be flushed before the unit is installed.

Use corrosion-resistant pipe materials for installation. Observe corrosion-causing chemical properties in the combination of different pipes (mixed installation), even in the direction of the flow upstream of the softening unit.

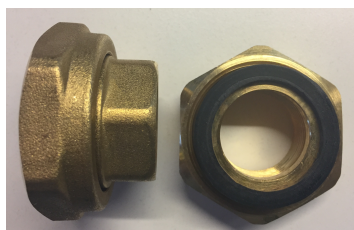
The hose attached to the overflow of the brine container and flushing water hose must be routed at an incline to the sewage system or connected to a pump.

The flushing water hose and the overflow hose must be secured at the specified distance from the highest possible waste water level to the sewage connection (distance greater than the diameter of the waste pipe).

If flushing water is fed into a pump, it must be designed for a water quantity of at least 2m³/h or 35 l/min. If the pump is used for other units simultaneously, it must be sized larger by a factor of their water output quantities.

The pump must be salt-water resistant.

To assist in connecting to the pipework, the following fitting can be used:



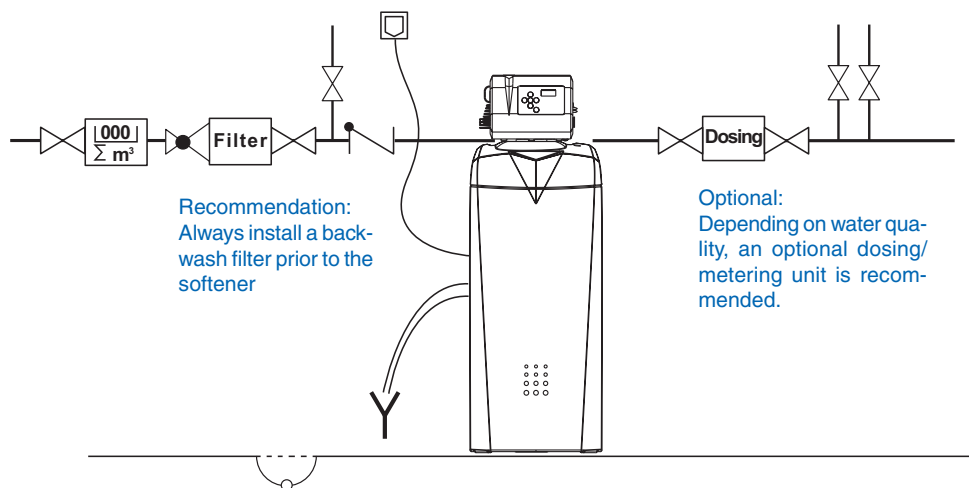
This is a 32mm Fi x 20mm Fi BSP reducing union set. Reece Product Code: 1906945

This fitting will not only assist in adapting to smaller tube size pipework, from the 32mm Mi Bewamat valve, but also assist where installation space is a hindrance.

20mm Mi elbow/ reducing elbow fittings, will also screw straight into this union set. Contact your local Reece branch for further information.

6 Installation

6.1 Installation diagram



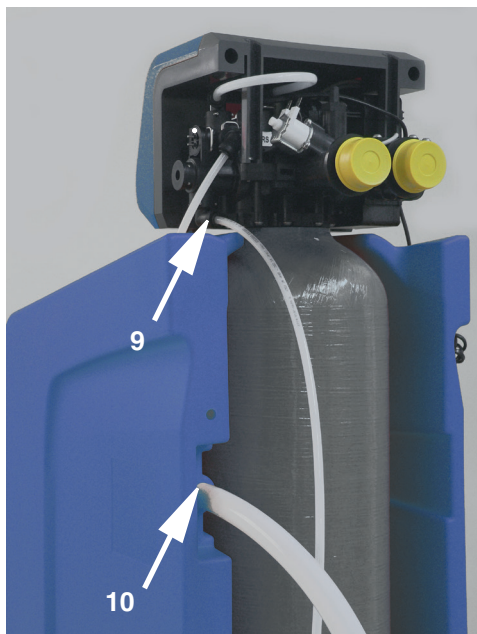
Place and align the softening column with control valve behind the cabinet.



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



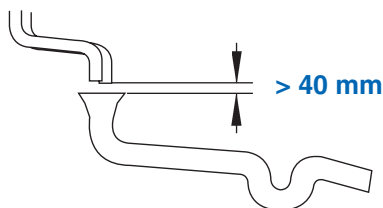
Put the grey cover onto the left side of the control valve.



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).



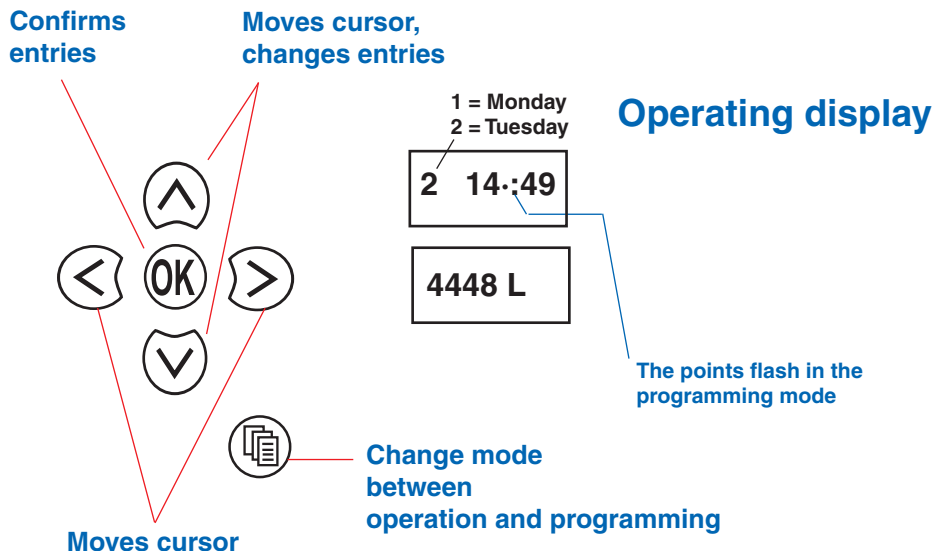
Connect the unit as shown in the installation diagram - minimum 50mm trapped waste.

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 40 mm above the highest waste water level (unimpeded drainage).

7 Start-up

7.1 Operation of the controller



7.2 Preparing the brine

Check that the unit has been properly installed.

Remove cover (4).

Pour regenerative (salt) into the storage area (5).

Recommended salt: Cube or pellet salt is recommended. This type of salt is high purity evaporated crystals, formed and pressed into briquets. It has less than 1% insoluble (not dissolvable in water) impurities.

Fill up the brine cavity (6) with about
4 litres for the Bewamat 25 A

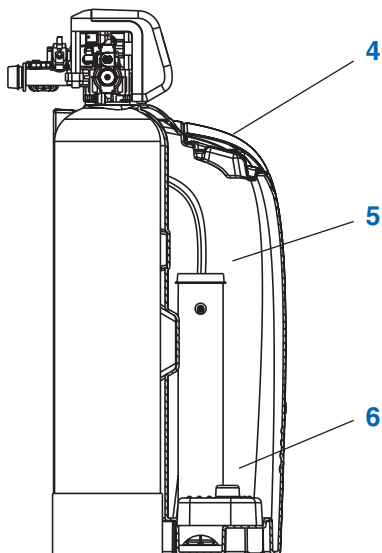
or

15 litres for the Bewamat 75 A
Fill up with drinking water.

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

Insert mains plug.

Water supply must remain closed.



z.B.

StArt

4450 L

6 10:50

lbn



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
until lbn appears in the display.

Flushing occurs for 1 minute (flush time t1). The valve then moves into operating position.

The unit is ready for operation.

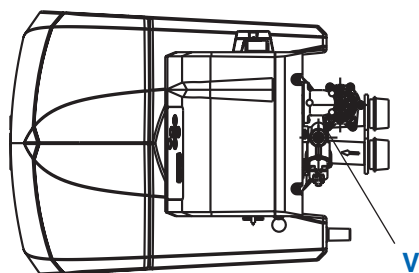
The capacity and the blending valve are preset. A readjustment is only necessary for especially hard water (hardness greater than 22°d) or for water of medium hardness (less than 14°d).

7.3 Handing over the unit to the operator



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

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



8 Operation

8.1 Setting the hardness of blended water

The unit is preset to 4°d.

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 your preferred water hardness testing kit (ie. Dip stripe), or contact your local Reece Branch for more information. Adjust with the blending valve V until the desired value is reached.



Note: The sodium content increases. Check local limits or regulations that apply.

This limit should be set low, so that people on a low sodium diet can still drink water from the unit 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°d.

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

Check connections and pipeline junctions for leaks once again.

The unit is now ready for use.

8.2 Setting the supply of softened water

The unit is preset:

Inlet water hardness of 20°d

Blended water hardness of 4°d

The supply of softened water is set if

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

Calculating the supply of softened water:

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

K for Bewamat 25 A = 25 m³ x °d

K for Bewamat 75 A = 75 m³ x °d

E = Inlet water hardness in °d

V = desired and set blended water hardness in °d

Display indicates SEt

SEt



OK

Time

✓

4688 L

OK

4688 L

Display flashes

e.g.

3750 L

^ ✓

Set the calculated soft-water supply

OK

3750 L

The new supply of softened water is not displayed until after the next regeneration.



End the program.

8.3 Setting the time/day of the week



SEt



4 08:32

The flashing numbers can be changed.

Day of week
1 = Monday
2 = Tuesday
3 = Wednesday
etc.



Changes the number



Moves the cursor

e.g.

-5- 07:43

Current day of the week and time




5 07:43



End the program.


8.4 Changing the time of regeneration

SEt





e.g.

5 07:43




e.g.

r 09:15



e.g.

r 09:15





e.g.

r 02:00


e.g.

r 02:00


e.g.

r 02:00



e.g.

r 02:00



Setting the regeneration time

The flashing numbers can be changed.

Changes the number


Moves the cursor


New regeneration time

Ending the program

8.5 Starting regeneration manually

e.g.

 26:45



rEG On

The display shows alternating

remaining regeneration period in minutes (with flashing symbol) and rEG On.

SALt

8.6 Adding regenerative

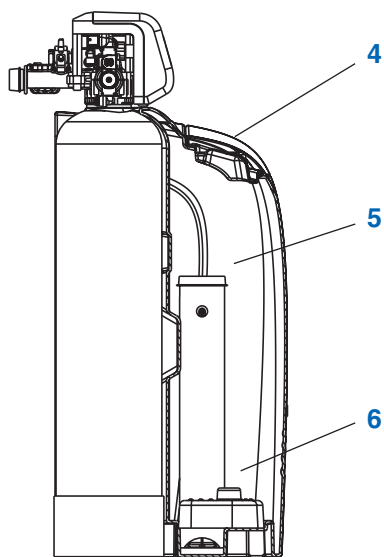
Refill the regenerative no later than when the sieve base becomes visible or when SALt is indicated on the display.

Recommended salt: Cube or pellet salt is recommended. This type of salt is high purity evaporated crystals, formed and pressed into briquets. It has less than 1% insoluble (not dissolvable in water) impurities.

Open the cover (4). Pour regenerative into the storage area (5).



Press. The SALt display goes out.



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

Clean the storage area or brine cavity (6) with drinking water if dirt does get in.

8.7 Service message

A flashing litre display indicates that it is time for servicing.

The service message appears after 150 regenerations.

Please contact your local Reece Branch for information on who your local certified BWT service agent is.

4433 L

9 Operator Responsibilities

You have purchased a product that is durable and easy to service. However, all technical equipment requires regular servicing in order to guarantee optimal functionality.

Keep yourself up to date with regard to the quality and pressure ratio of the water which is to be treated. If the water quality changes, the settings may need to be changed. Consult a specialist if this is the case.

A further condition to ensure the function of the unit and preserve the warranty is the replacement of any consumable parts in the prescribed maintenance intervals.

9.1 Inspection

It is advised that the following inspections are regularly carried out by the operator.

Regenerating agent As consumption requires
 Check and refill
 Check the water hardness Once a month
 The drinking water hardness and preset blended water hardness must be checked and adjusted as required (see Commissioning).

Visual inspection Every 2 months
 Check connections and pipes for leaks.
 Check for dirt in the regenerating agent supply cavity and clean and rinse with clear water if required.

Cleaning At least once a year
 Hygienically clean the brine container and cabinet

The inspection intervals are minimum recommendations and must be shortened appropriately by the operator in the case of delicate consumer systems.

9.2 Maintenance

It is recommended that the following maintenance works are carried out regularly by your local plumber or installer.

We recommend that you conclude a maintenance agreement with your installer or local BWT service agent, for more information please speak with your local Reece Branch.

Functional inspections

Brine extraction system	Twice a year
Water meter	Twice a year
Drive motor	Twice a year
Hydraulic inspection	Twice a year
Hygienic cleaning of the regenerating agent container	Twice a year

Replacement

Dual valve with resin pressure cylinder	Every 10 years
-----------------------------------------	----------------

10 Warranty

If the product malfunctions during the warranty period, please contact the Reece customer care department, quote the unit type and specify the issue at hand. The production number may also be required (see Technical specifications or the type plate on the unit).

Non-compliance with the installation conditions and the operator responsibilities voids the warranty.

The wearing parts defined in the “Operator Responsibilities” section and the consequences of failing to replace these parts on time are not covered by the 5-year legal warranty by Reece.

BWT assumes no liability in the event that the unit fails or if the capacity becomes deficient due to incorrect material selection/combination, floating corrosion products or iron and manganese deposits, or any resulting damage thereof.

11 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>
Unit 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. 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>
Unit 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).

12 Technical Data

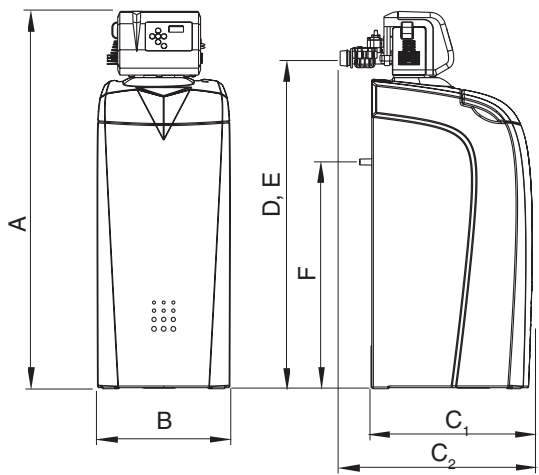
Water softener	Type	Bewamat 25 A
Nominal connection width	DN	32
Connection type		G 1 ¼"
Nominal capacity in accordance with DIN EN 14743	mol (m³ x °dH)	4,5 (25)
Capacity / kg of regenerative salt in accord. with DIN EN 14743	mol	3,8
Peak flow when blending from 20 to 8°dH	m³/h	2,3
Operating flow when blending from 20 to 0°dH	m³/h	1,4
Nominal flow in accordance with DIN EN 14743	m³/h	1,4
Nominal pressure PN	bar	10
Operating pressure, min./max.	bar	2,5 - 8
Pressure drop at operating flow	bar	1
Application	residential units persons	-
Ion exchange material fill quantity	l	8
Supply of regenerative, max.	kg	18
Consumption of regenerative per regeneration, max.	kg	1,2
Flushing water consumpt per regenerat. at 4 bar, max.	l	55
Flushing water flow during regeneration, max.	l/h	170
Regeneration time, max.	min	35
Water temperature, min. – max.	°C	5 - 25
Ambient temperature, min. – max.	°C	5 - 40
Humidity		non condensing
Mains power	V/Hz	230/50
Unit voltage	VDC	18
Power during operation	W	4
Max. power during regeneration	W	38
Max. fault message output	VDC / A	-
Protection class		IP 53
Operating weight if filled to max.	kg	40
Shipping weight, approx.	kg	30
Production number	PNR	6-501164
Order number		11378

Technical Data

Water softener	Type	Bewamat 75 A
Nominal connection width	DN	32
Connection type		G 1 ¼"
Nominal capacity in accordance with DIN EN 14743	mol (m³ x °dH)	13,4 (75)
Capacity / kg of regenerative salt in accord. with DIN EN 14743	mol	3,8
Peak flow when blending from 20 to 8°dH	m³/h	3
Operating flow when blending from 20 to 0°dH	m³/h	1,8
Nominal flow in accordance with DIN EN 14743	m³/h	1,8
Nominal pressure PN	bar	10
Operating pressure, min./max.	bar	2,5 - 8
Pressure drop at operating flow	bar	1
Application	residential units persons	-
Ion exchange material fill quantity	l	21
Supply of regenerative, max.	kg	50
Consumption of regenerative per regeneration, max.	kg	3,5
Flushing water consumpt per regenerat. at 4 bar, max.	l	128
Flushing water flow during regeneration, max.	l/h	500
Regeneration time, max.	min	40
Water temperature, min. – max.	°C	5 - 25
Ambient temperature, min. – max.	°C	5 - 40
Humidity		non condensing
Mains power	V/Hz	230/50
Unit voltage	VDC	18
Power during operation	W	4
Max. power during regeneration	W	38
Max. fault message output	VDC / A	-
Protection class		IP 53
Operating weight if filled to max.	kg	100
Shipping weight, approx.	kg	50
Production number	PNR	6-501165
Order number		11379

12.1 Dimensions

Name			Bewamat 25 A	Bewamat 75 A
Height	A	mm	640	1090
Width	B	mm	390	390
Depth	C	mm	460 / 560	460 / 560
Water inlet connection height	D	mm	500	960
Water outlet connection height	E	mm	500	960
Overflow connection height	F	mm	280	650
Regenerative container height	J	mm	-	-
Diameter or width of regenerative container	K	mm	-	-
Filling height, min.	L	mm	-	-
Distance from wall, min.	M	mm	-	-
Min. sewage system connection	DN		50	50



Start-up: Hardness of drinking water at inlet _____ °d Network pressure _____ kPa

Water meter reading _____ m³ Date of initial start-up _____

Personnel trained

[illegible]

Comments

Further information:

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