User manual

BlueSoft "E"; "K"- series

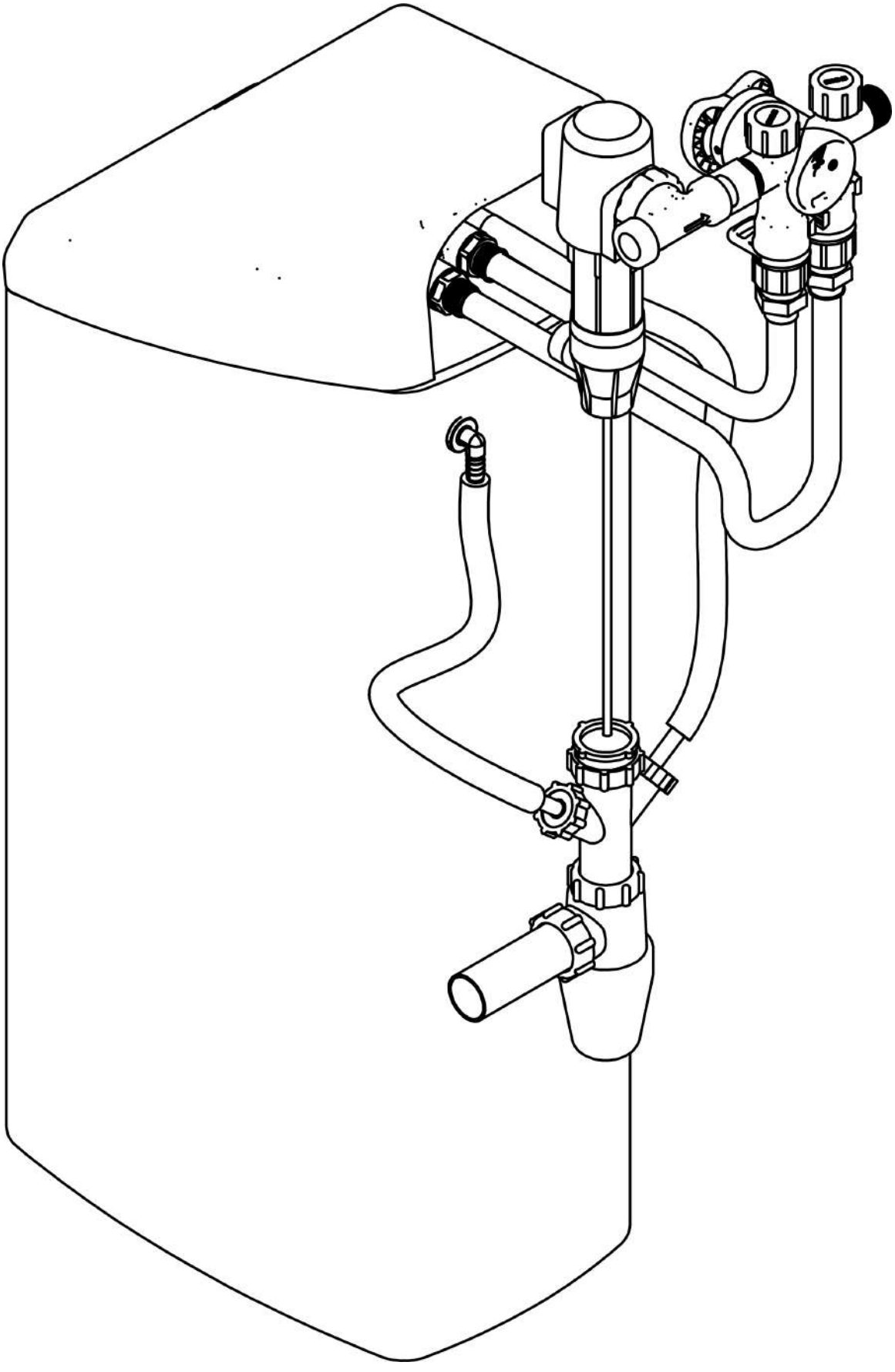
Household water softener equipment

Number of the equipment's drinking water safety (NNK) certificate:
NNGYK/02292-4/2024

1. Read all instructions carefully before operation.

2. Avoid pinched o-rings during installation by applying lubricant (make it wet with silica-grease) to all seals.

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



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BEFORE INSTALLING YOUR WATER SOFTENER

» Read the user manual carefully before installation, commissioning and use. Failure to follow instructions may result in personal injury and/or property damage.

» Use suitable lubricating grease (silicone grease) for wetting and installing the O-rings. Do not use a damaged or pinched O-ring.

» Do not use any sealing material or tools other than the O-rings supplied at the factory.

» A telepítés során mindig tartsa be a villamos szerelésre, nyomás alatti csőszerelésre vonatkozó helyi törvényeket, jogszabályokat. A vonatkozó szabályozást akkor is tartsa be, ha az eltér az ezen használati utasításban foglaltaktól.

» During installation, always comply with local laws and regulations regarding electrical installation and pipe installation under pressure. Follow the relevant regulations even if they differ from those contained in these instructions for use.

» The water softener is not protected against high iron, manganese, sulfur content and suspended solids, so its use is only permitted for drinking water quality. Failure of seals and discs due to lack of proper pretreatment is not covered by the warranty.

» It is absolutely necessary to install a 50 µm pre-filter in front of the water softener, which is a condition for the warranty to be valid.

» Operate the water softener at an incoming water pressure between 2 and 5 bar. In case of pressure exceeding this or strongly fluctuating pressure, it is necessary to install a pressure control valve. Ideal operating conditions: 2.5 - 3.5 bar. If the pressure is significantly different from this, it may be necessary to correct the settings of the regeneration phases and replace the injector.

» Store and operate the water softener in a temperature range between 5°C and 40°C. The temperature of the water flowing through the equipment must not exceed 30°C.

» To avoid contamination, operate the water softener with biologically pretreated water.

» Do not use to soften hot water.

» Do not install the water softener in a place exposed to weather, rain, direct sunlight or in an environment that exceeds the above-mentioned ambient temperature.

» If the equipment has been relocated, or if the parameters of the incoming water have changed by more than 15% (water hardness, pressure...) then it is necessary to restart the system.

This document contains current information at the time of publication.
Due to continuous development, there may be changes that are not included in this document.

Euro-Clear Kft reserves the right to change the technical content of the equipment without prior notification.

Euro-Clear Kft. guarantees that your new water softener was built with high-quality materials and expertise.
With proper installation and maintenance, it ensures long-term, problem-free use.

NOTE

CHECK AND COMPLY WITH YOUR STATE AND LOCAL CODES. YOU MUST FOLLOW THESE GUIDELINES.

⚠ CAUTION

DISASSEMBLY WHILE UNDER PRESSURE CAN RESULT IN FLOODING.

WATER SOFTENING BASICS

WHAT IS HARD WATER AND HOW IT IS SOFTENED?

Fresh water everywhere originally comes from falling precipitation (snow, rain, hail). Precipitation falling on the earth's surface evaporates under the influence of the sun and rises to form clouds, then almost completely clean and soft water falls again in the form of precipitation, when it filters through the atmosphere and collects dust and smog. As a result of percolation through rocks and soil, the hardness and pH of the water will change, and chemical substances that affect its color, smell, and taste will dissolve.

The hardness of the water comes mainly from the limestone dissolved by the rainwater. Based on this principle, in the past, if people needed soft water, the water runoff from the roofs was collected in barrels and channeled through sewer systems before it dissolved the hardness-causing minerals from the ground.

Some regions have highly corrosive water that a water softener cannot solve. If the water softener is used with such water, the manufacturer/distributor assumes no responsibility for that and for the equipment connected to the water network afterwards. In this case, the warranty of the water softener becomes void.

Iron content in water is one of the most common problems. Iron can be present in water in the following four chemical/physical forms:

1. IN DISSOLVED FORM—The larger amount of iron content dissolved in "iron" water can be easily detected by filling it in a clean glass and then exposing it to the open air for oxidation, because then its transparency starts to become a veil and the iron content and oxidation will cause it to become discolored. This iron content can be removed in a similar way to the hardness-causing elements (calcium, magnesium), but with a different filling.

2. SOLID IRON PARTICLES—This type of iron is present in an undissolved state. Appropriate mechanical pre-filtration is required for its removal. The resin of the water softener, as a filter media, is capable of binding larger particles, but these cannot be removed during regeneration, so the resin eventually becomes saturated with iron, which can lead to a significant reduction in the capacity of the water softener.

3. ORGANIC, BOUND IRON—This type of iron is bound to the organic components of water. The ion exchange process alone cannot break these bonds, so a water softener cannot remove this type of iron.

4. BACTERIAL BOUND IRON—This type of iron is locked up in the bacterial colony. Similar to organic, bonded iron, this form of appearance cannot be removed with a water softener.

It is important to note that the water softener will reduce the amount of dissolved iron along with the hardness, but it can work with much more frequent regeneration than in the presence of hardness alone. There are several types of correction factors in the public mind for operation in the presence of dissolved iron, but as a rule of thumb, we cannot count on a water softening capacity of more than 50-70%. In this mode, clogging of the charge can be minimized.

The water also contains scale-forming substances (in an amount equivalent to 50mg/l CaO) when softened to the minimum hardness (5Nk) typical for drinking water by ion exchange. Although scale formation is reduced to a fraction, completely stain-free drying of the cleaned surfaces cannot be guaranteed. Dishwasher, boiler, boiler, iron, humidifier...etc. when feeding, take into account the water quality specified in the machine's specifications. Remove the deposits formed on the surface of the equipment and fittings with chemicals and treatment approved in their manual.

Due to the principle of ion exchange, ingested sodium can also cause visible deposits and staining, but these deposits are less sticky and can be wiped off more easily when dry. The amount of sodium precipitation will depend on the difference in hardness between the incoming and softened water.

Even if you operate the equipment with a dissolved iron content that does not exceed the sanitary limit value, but the iron has already appeared on the treated water side, the resin bed must be cleaned. In this case, clean the resin bed with the appropriate chemical every six months or more often.

Your water softener works with ion exchange, during which the filling is saturated with calcium and magnesium salts. These are removed by salt-based regeneration, the resin is refilled with sodium, and it is prepared to bind scale-forming materials. Always ensure that your water softener is topped up with salt regularly. Only use table salt. Household, fine-grained salt cannot be used, as it can cause malfunctions.

⚠ CAUTION	DO NOT USE THE WATER SOFTENER WITH RAW WATER OF UNKNOWN ORIGIN, CHEMICAL COMPOSITION, AND MICROBIOLOGICALLY DISORDERED. IN SUCH CASES, DISINFECTION IS NECESSARY!

SPECIFICATION OF THE WATER SOFTENER

Product code	Product	Valve type	Salt and water consumption / regeneration	Connection (in, out)	Flow	Resin	Capacity	Installation size H x W x L mm
BS-E50/V34	BlueSoft E household water softener equipment	®ECO	1,6 kg NaCl 90 liter H_2O	3/4"	1.0 – 1.5 m^3/h	12,5 liter	50 m^3x°nk	620 x 320 x 500
BS-E70/VR34	BlueSoft E household water softener equipment	®ECO	2,2 kg NaCl 110 liter H_2O	3/4"	1.5 – 1.8 m^3/h	18 liter	70 m^3x°nk	1080 x 320 x 500
BS-E100/VR34	BlueSoft E household water softener equipment	®ECO	3,0 kg NaCl 140 liter H_2O	3/4"	1.8 – 2.0 m^3/h	25 liter	100 m^3x°nk	1080 x 320 x 500
BS-E120/VR34	BlueSoft E household water softener equipment	®ECO	3,6 kg NaCl 160 liter H_2O	3/4"	1.8 – 2.0 m^3/h	30 liter	120 m^3x°nk	1080 x 320 x 500
BS-E50/VR1	BlueSoft E household water softener equipment	®ECO	1,6 kg NaCl 90 liter H_2O	1"	1.0 – 1.5 m^3/h	12,5 liter	50 m^3x°nk	620 x 320 x 500
BS-E70/VR1	BlueSoft E household water softener equipment	®ECO	2,2 kg NaCl 110 liter H_2O	1"	1.5 – 2.0 m^3/h	18 liter	70 m^3x°nk	1080 x 320 x 500
BS-E100/VR1	BlueSoft E household water softener equipment	®ECO	3,0 kg NaCl 140 liter H_2O	1"	2.0 – 2.5 m^3/h	25 liter	100 m^3x°nk	1080 x 320 x 500
BS-E120/VR1	BlueSoft E household water softener equipment	®ECO	3,6 kg NaCl 160 liter H_2O	1"	2.5 – 3.0 m^3/h	30 liter	120 m^3x°nk	1080 x 320 x 500

Product code	Product	Valve type	Salt and water consumption / regeneration	Connection (in, out)	Flow	Resin	Capacity	Installation size H x W x L mm
BS-K30/V34	BlueSoft K household water softener equipment	®ECO	1,4 kg NaCl 80 liter H_2O	3/4"	0.8 – 1.2 m^3/h	12,5	30 m^3x°nk	640 x 230 x 440
BS-K70/VR34	BlueSoft K household water softener equipment	®ECO	1,9 kg NaCl 110 liter H_2O	3/4"	1.5 – 1.8 m^3/h	18	70 m^3x°nk	1110 x 230 x 440
BS-K100/VR34	BlueSoft K household water softener equipment	®ECO	2,6 kg NaCl 140 liter H_2O	3/4"	1.8 – 2.0 m^3/h	25	100 m^3x°nk	1330 x 230 x 440
BS-K70/VR1	BlueSoft K household water softener equipment	®ECO	1,9 kg NaCl 110 liter H_2O	1"	1.5 – 2.0 m^3/h	18	70 m^3x°nk	1110 x 230 x 440
BS-K100/VR1	BlueSoft K household water softener equipment	®ECO	2,6 kg NaCl 140 liter H_2O	1"	2.0 – 2.5 m^3/h	25	100 m^3x°nk	1330 x 230 x 440

Product code	Product	Valve type	Salt and water consumption / regeneration	Connection (in, out)	Flow	Resin	Capacity	Installation size H x W x L mm
BSEco-E30/VB34	BlueSoft ECO E household water softener equipment	®ECOPRO	1,6 kg NaCl 90 liter H_2O	3/4"	1.0 – 1.5 m^3/h	12,5	30 m^3x°nk	620 x 320 x 500
BSEco-E75/VB34	BlueSoft ECO E household water softener equipment	®ECOPRO	3,0 kg NaCl 140 liter H_2O	3/4"	1.8 – 2.0 m^3/h	25	75 m^3x°nk	1080 x 320 x 500
BSEco-E90/VB34	BlueSoft ECO E household water softener equipment	®ECOPRO	3,6 kg NaCl 160 liter H_2O	3/4"	1.8 – 2.0 m^3/h	30	90 m^3x°nk	1080 x 320 x 500
BSEco-E30/VB1	BlueSoft ECO E household water softener equipment	®ECOPRO	1,6 kg NaCl 90 liter H_2O	1"	1.0 – 1.5 m^3/h	12,5	30 m^3x°nk	620 x 320 x 500
BSEco-E75/VB1	BlueSoft ECO E household water softener equipment	®ECOPRO	3,0 kg NaCl 140 liter H_2O	1"	2.0 – 2.5 m^3/h	25	75 m^3x°nk	1080 x 320 x 500
BSEco-E90/VB1	BlueSoft ECO E household water softener equipment	®ECOPRO	3,6 kg NaCl 160 liter H_2O	1"	2.0 – 3.0 m^3/h	25	90 m^3x°nk	1080 x 320 x 500

Specification		Requirement
Working conditions	Water pressure	2 - 5 bar
	Water temperature	max. 30°C
Working environment	Environment temperature	5 - 40°C
	Relative humidity	≤ 95% (25°C)
	Electrical supply	AC100-240V/50-60Hz
Inlet water quality	Turbidity	< 2 FTU
	Water hardness	5 - 35°Nk
	Free chlorine	< 0,1 mg/l
	Iron	< 0,2 mg/l
	Manganese	< 0,05 mg/l
	COD	< 0,2 mg/l

The capacity of the equipment may vary depending on the power and incoming water.

After changing the factory settings for salt and salt dosage, it may be necessary to replace the injectors to achieve the desired capacity.

The value of iron in the water must not be higher than 0.2 ppm. If the value is above 0.2 ppm, it is necessary to install a de-ironing device.

Do not use on water that is not microbiologically safe or does not have the appropriate pretreatment.

The manufacturer reserves the right to continuously develop the product, as a result of which it may happen that you experience values different from the data given above. These changes do not oblige the manufacturer to change the previously sold products or to communicate these changes.

PUBLIC HEALTH AND LEGAL CONDITIONS:

1) The product can only be operated from a water network with drinking water quality. The temperature of the water to be treated must not exceed 30°C.

2) Area of application: post-treatment of tap water at household, workplace and community level (water softening).

3) When starting up, after longer downtimes (more than 2-3 days) and after disinfection, the instructions in the user manual must be strictly followed. It is necessary to regenerate the product during commissioning. After downtimes exceeding 2-3 days, the product must be rinsed, at least a 5-minute run is required at each water tap that is supplied with the water treated by the product. The water obtained during flushing must not be used as drinking water or for food preparation purposes.

4) Commissioning and regular disinfection and maintenance must be provided by the distributor or his agent as a service to the user.

5) The protection of the product against the proliferation of bacteria must be ensured by regular disinfection every 3 months and regular regeneration at least weekly. Disinfection must also cover the network section between the product and consumer taps.

6) 5/2023 regarding the notification/registration of chemicals and regenerating salts used during the cleaning/disinfection of the product. (I.12) in government decree, and 38/2003. (VII. 7.) ESzCsM-FVM-KvVm joint decree and 316/2013. (VIII. 28.) The authorities are described in a government decree.

7) Only parts that come into contact with water can be used for the installation of the products, which comply with the 5/2023. (I.12.) Regulations of the Government Decree.

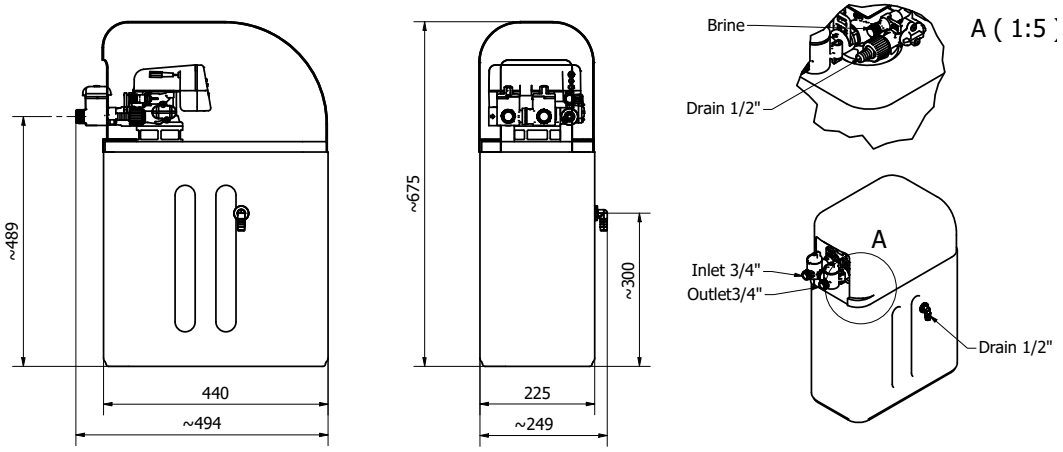
8) The product can be suitable for significantly reducing the total hardness of tap water. The amount of reduction depends on the set mixing ratio of the by-pass. In case of use as drinking water, the by-pass ratio must be set so that the total hardness of the treated water is at least 50 CaO mg/l. in case of use for other purposes, we see no obstacle to using softer water. If the total hardness of the treated water is less than 50 CaO mg/l, its long-term, exclusive drinking water consumption is not recommended.

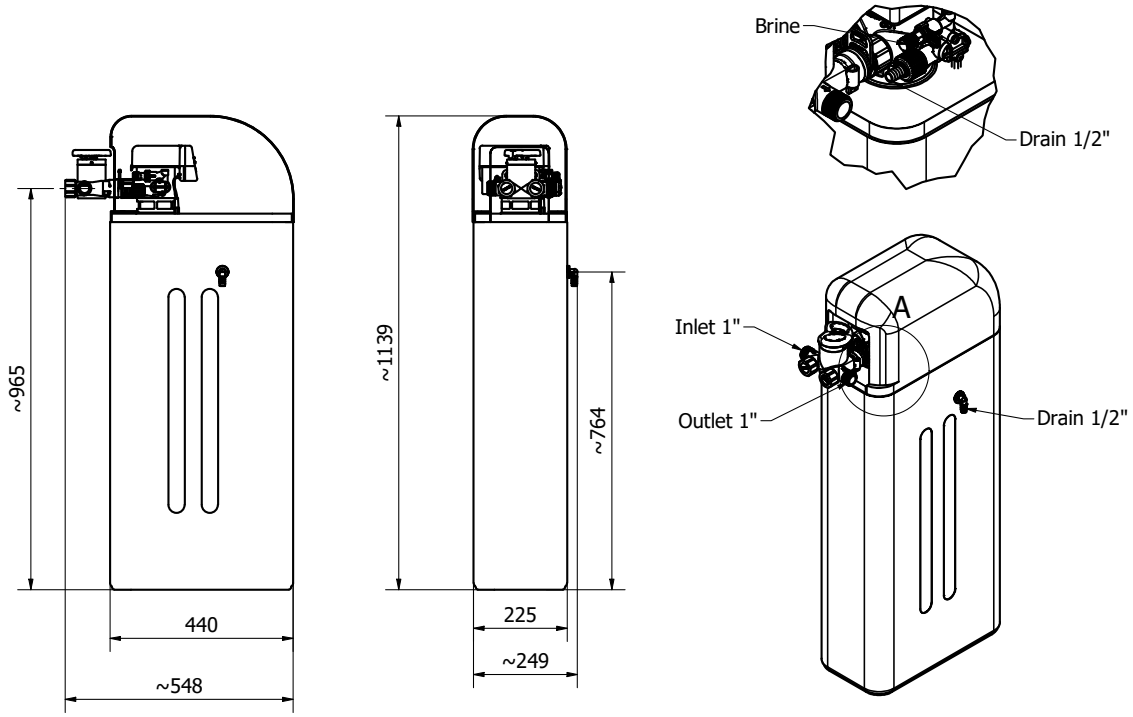
9) The use of water treated by the product is not recommended for pregnant women and children under the age of 3 due to the risk of nitrite formation.

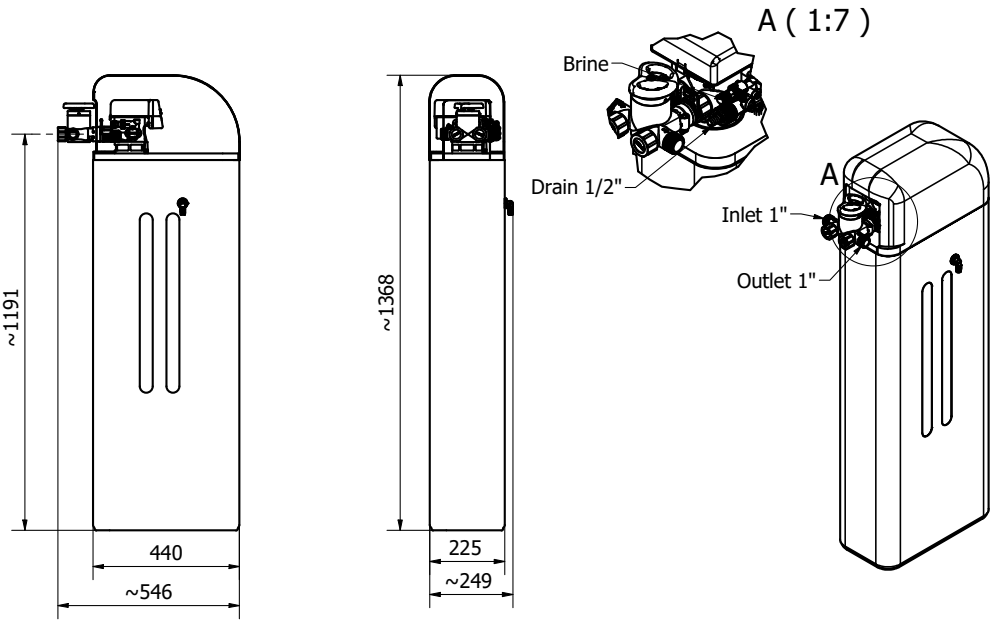
10) The use of the products in public institutions for community purposes is recommended in compliance with the following additional conditions of use:
- the regional (capital city district) office acting in the field of public health responsibilities must be informed of its application;
- taking into account the regional characteristics, the additional conditions of application are determined by the district (capital district) office acting in its territorially competent public health responsibilities;
- a disinfection frequency of at least every 3 months is recommended;
- the quality of the treated water must be tested regularly, at least every 6 months, by an accredited laboratory, the recommended test parameters: colony number 22°C, Pseudomonas aeruginosa, ammonium, nitrite, total hardness;
- the treated water must comply with the 5/2023. (I.12.) The intervention limit applicable to the quality standards in Annex 1 of the Government Decree, plant number 22°C is 1000 TKE/ml;
- the results of the performed laboratory test must be sent to the regional (capital city district) office acting in its scope of public health duties and a copy to the NNGYK, in case of unsatisfactory results, the necessary interventions must be carried out out of sequence (e.g. disinfection);
- a service log must be kept on the performed disinfection and other maintenance operations;
- in order to comply with the conditions of use of the product, it is recommended to appoint a responsible colleague;
- the user manual of the product must be placed in such a way that it is accessible to all users;

11) We recommend using the products in the workplace subject to the following additional conditions of use:
- a disinfection frequency of at least every 3 months is recommended;
- a service log must be kept on the performed disinfection and other maintenance operations;
- in order to comply with the conditions of use of the product, it is recommended to appoint a responsible colleague;
- the user manual of the product must be placed in such a way that it is accessible to all users.

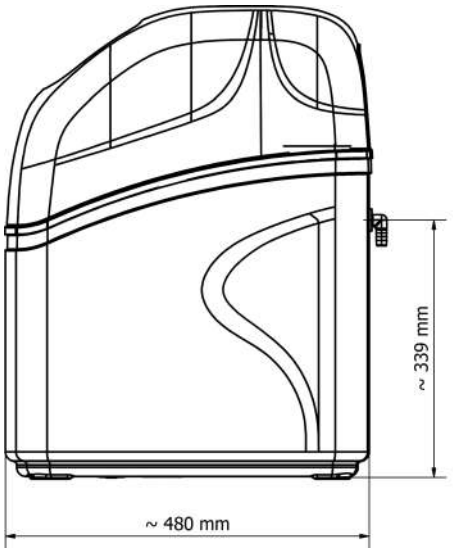
DIMENSIONS OF WATER SOFTENER - K SERIES

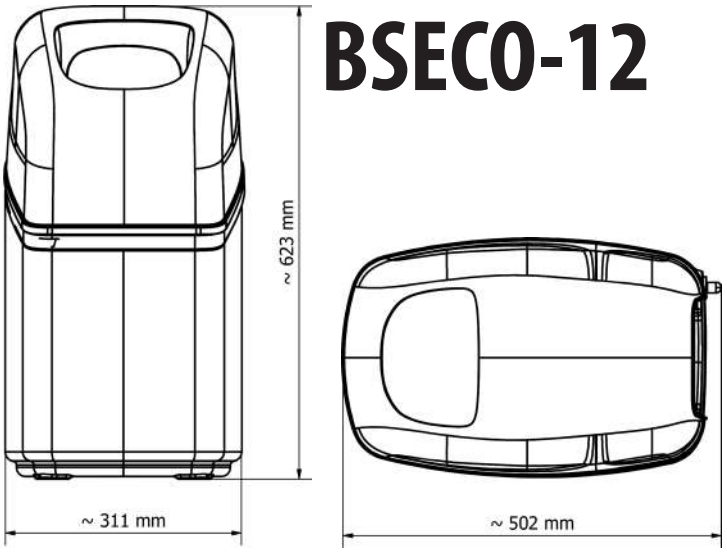






DIMENSIONS OF THE WATER SOFTENER - E SERIES





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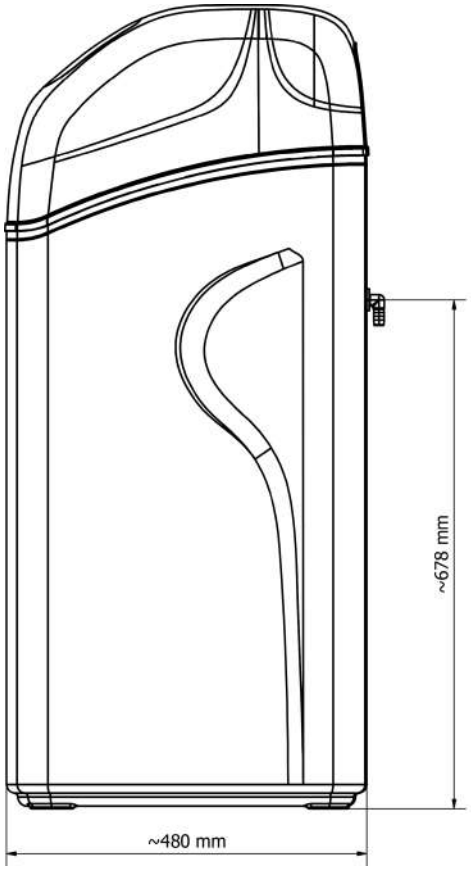
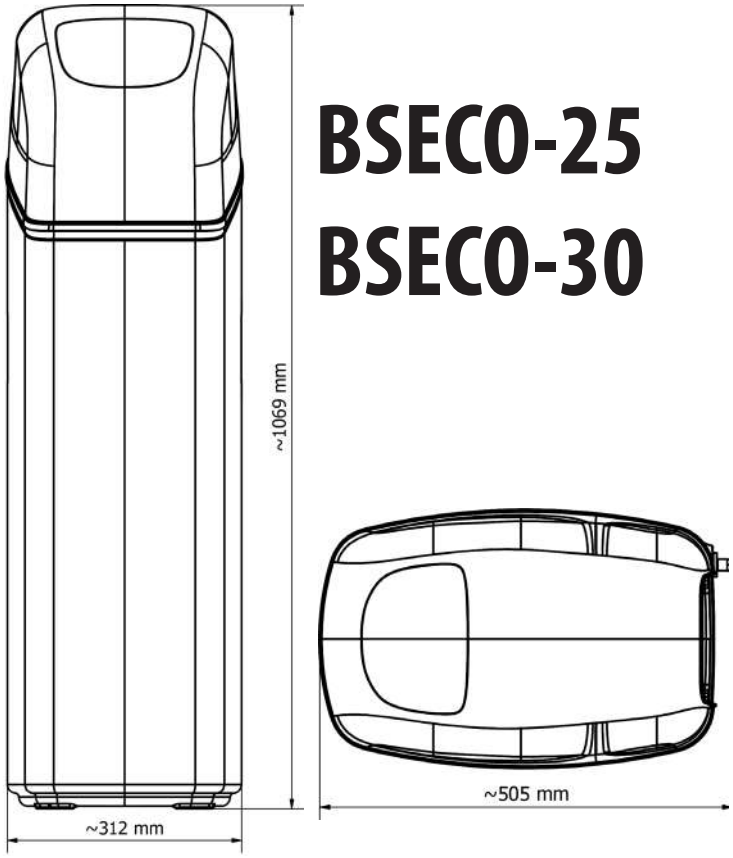




BSECO-25
BSECO-30

UNPACKING THE WATER SOFTENER

The equipment can only be transported in a standing position. Inspect the water softener thoroughly to make sure there is no shipping damage. If you find damage to the equipment or its packaging, notify the shipping company immediately and ask for a damage inspection and damage report. If you waive this right, you will not be able to regain it later.

Handle the equipment with extra care, do not drop it, do not throw it and make sure that it is not stored on uneven or damaged ground. Never tilt the device sideways or turn it upside down!

NOTE	IF YOU EXPERIENCE TOO LARGE PRESSURE DROP AFTER USING THE EQUIPMENT, THEN IT IS DEFINITELY CAUSED BY A DECLINE THAT HAPPENED DURING TRANSPORTATION, AND IT HAS BEEN LOST ON IT'S SIDE. IF THIS HAPPENED, THE RESIN CHARGE CAN BE REORGANIZED BY STARTING A BACKWASH.

The manufacturer cannot be held responsible for damage resulting from transport. The smaller parts required for installation are packed in a separate box. To avoid losing these parts, keep them in their packaging until installation.

ACCESSORIES:

- 2pcs of O-rings
- power supply
- bypass valve (only for VR1, VR34 equipments!)

RECOMMENDED ACCESSORIES:

- mechanical prefilter (CPF and DFA series)
- drain connection unit (PG/1)
- salt tablets (TBS-SAL)
- hardness tester (OKT-1)

INSTALLATION INSTRUCTIONS

DETERMINE THE CORRECT LOCATION OF THE WATER SOFTENER EQUIPMENT

Choose the appropriate location for the equipment, taking into account the points listed below:

1. It should be as close as possible to the source of the water entering the apartment.

2. As close as possible to the ground or to the drain.

3. A channel connection option (32-40mm) must be available to ensure free, gravity flow.

4. Be properly placed with other water treatment equipment.

5. The softener must be installed in front of the water heater. Water with a temperature above 30°C will damage the equipment.

6. Only install the equipment in a frost-free place. Damage caused by freezing can permanently destroy the water softener and the warranty will immediately become invalid.

7. Provide space for servicing around the equipment.

8. Determine if additional piping is necessary if the source of water is a community water main, public water main or if you want to bypass water used by geothermal heat pumps, irrigation systems, outbuildings or other high water applications.

9. Do not expose the device to direct sunlight. The heat generated by sunlight can soften and melt plastic parts.

10. A 230V wall plug must be installed.

11. In the case of your own well, have a water analysis performed, and for a complex solution, ask for expert advice.

12. If you use tap water, measure the hardness of the incoming water or contact your service provider, and then, based on the data obtained, the ideal setting of the water softener is possible.

13. Note that the water softener supplies only hard water during regeneration and in the other phases. In order to avoid a significant pressure drop, always time the regeneration for the users' inactive period (recommended setting: between 22:00 and 00:00).

In any case, the installation must be carried out by a specialist.
We are not responsible for damages resulting from improper wiring.

TOOLS REQUIRED FOR INSTALLATION:

► Adjustable keys, pipe wrench.
► Additional tools may be needed if you need to modify the piping in your home.
► Use copper, brass or PVC, PE pipes and quick connectors.
► Some regulations allow the construction of PVC piping. Refer to local regulations.
► If it has a bypass valve, the water going into the softener can be shut off and the mixing function can also be implemented.

MORE INFORMATION:

- It is the customer's responsibility to connect the equipment to the water, sewage and electrical network!

- The operator of the equipment and the specialist performing the installation will check that the equipment has been installed as described in the operating and user manual, and that the conditions for mitigating damage resulting from possible malfunctions have been met!

- When installing, you must follow the locally valid installation regulations, general instructions, general hygiene regulations and make sure to comply with the installation conditions specified above!

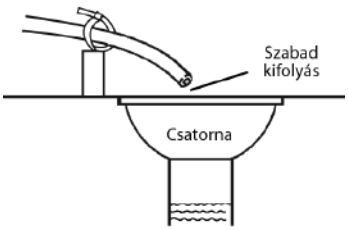
- For damage mitigation purposes, we recommend installing the equipment in a room with a floor drain.

- Reliable regeneration is not ensured below 2.5 bar mains water pressure, so in this case we recommend the installation of a pressure boosting device.

- In the event of a lack of constant water pressure, it may happen that the water treatment equipment cannot carry out the backwashing and regeneration that may be necessary during a break in water production.

- Due to possible pressure shocks and pressure fluctuations, a pressure reducer or a mechanical filter with a pressure reducer must be installed in front of the equipment. Sudden pressure fluctuations exceeding ±0.5 bar are not permitted!

- The equipment does not have special protection against water or power failure. This must be provided on the installation page as required.



⚠ CAUTION

WHEN CONNECTING A DUCT, PLEASE TAKE INTO ACCOUNT THAT THE EQUIPMENT CAN ONLY WORK ON A GRAVITY, FREE FLOW DUCT, IN WHICH THE VACUUM DUE TO THE LACK OF OVERPRESSURE AND VENTILATION IS NOT ALLOWED.

⚠ CAUTION

DO NOT CONNECT THE DUCT CONNECTION HOSE DIRECTLY TO THE SEWER PIPE, ALWAYS LEAVE A DISTANCE BETWEEN THE END OF THE EQUIPMENT DUCT HOSE AND THE MEDIUM FLOWING IN THE MAIN DUCT BRANCH TO AVOID RETURN FLOW AND BACK VENTILATION.

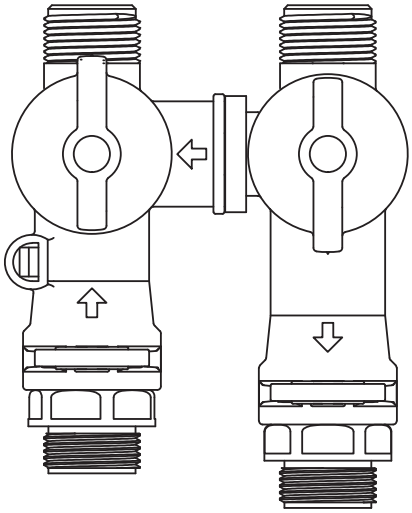
NOTE

IN ALL CASES, WITHOUT EXCEPTION, PIPING MUST BE DESIGNED IN ACCORDANCE WITH LOCAL REGULATIONS AND LAWS

FUNCTIONS OF THE 3/4 " BYPASS VALVE (F70B-34)

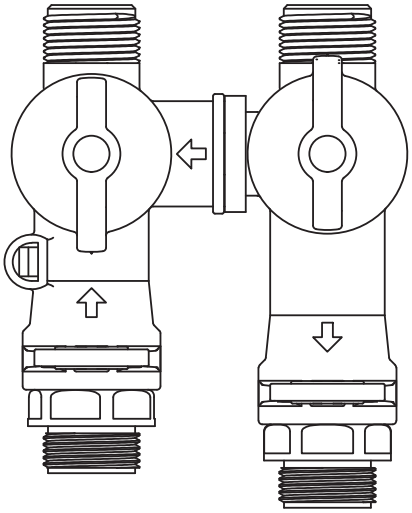
IN SERVICE

(FULLY SOFTENED WATER)



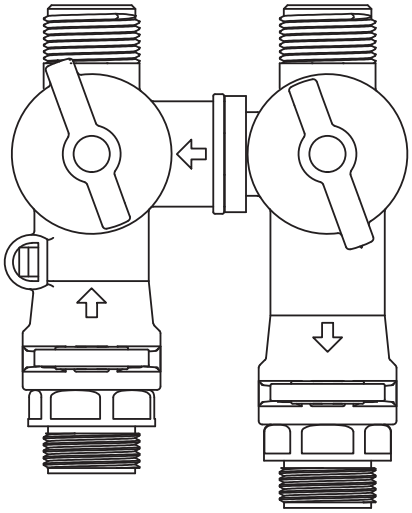
BY-PASS

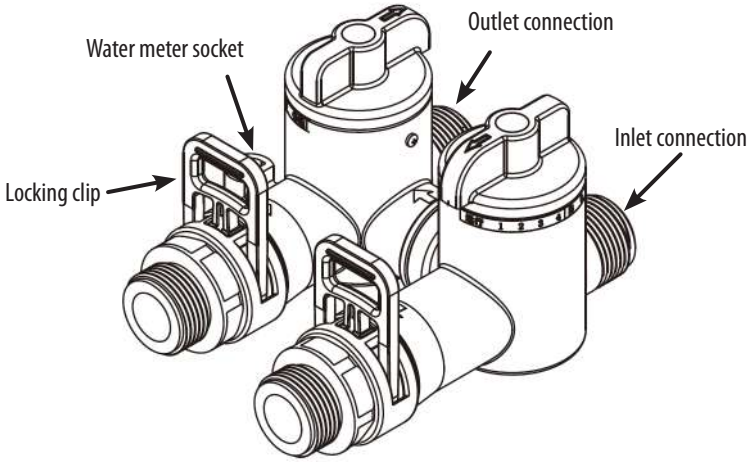
(RAW WATER PASS)



MIXING

(SOFTENED WATER MIXED WITH HARD WATER)





During normal operation, the crank is in the mixing range. In any case, check the outgoing water hardness with titration!

To bypass the equipment, turn the rotary knobs to the "PASS WAY" position. In this way, your water equipment can still be used, but since the water bypasses the softener, the outgoing water will be hard.

Set the two rotary knobs as shown in the figures, always in **parallel**, but in **opposite directions**. Always use the shipped sealing rings when installing the quick connectors in the control valve - **DO NOT USE ANY OTHER METHOD OF SEALING!** If the incoming and outgoing water pipes are not self-supporting, ensure that the piping is secured without tension. After assembly, check that the locking clips are inserted and that the water meter sensor of the control valve is in place until it clicks. When assembling, make sure that you do not lose the water meter rotor when loosening the connectors!

During assembly, check the presence of the water clock rotor in the bypass outlet, and connect the water clock sensor to the socket marked above.

FUNCTIONS OF THE 1 " MONTAGE BLOCK (F70A-1)

During normal operation, the crank is in the mixing range. In any case, check the outgoing water hardness with titration!

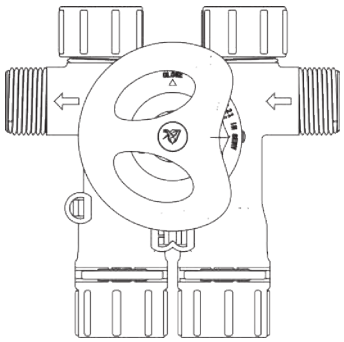
To bypass the equipment, turn the rotary knobs to the "PASS WAY" position. In this way, your water equipment can still be used, but since the water bypasses the softener, the outgoing water will be hard.

Set the two rotary knobs as shown in the figures, always in **parallel**, but in **opposite directions**. Always use the shipped sealing rings when installing the quick connectors in the control valve - **DO NOT USE ANY OTHER METHOD OF SEALING!** If the incoming and outgoing water pipes are not self-supporting, ensure that the piping is secured without tension. After assembly, check that the locking clips are inserted and that the water meter sensor of the control valve is in place until it clicks. When assembling, make sure that you do not lose the water meter rotor when loosening the connectors!

During assembly, check the presence of the water clock rotor in the bypass outlet, and connect the water clock sensor to the socket marked above.

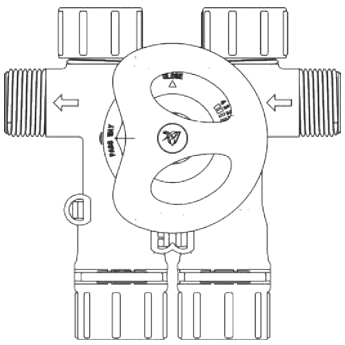
IN SERVICE

(FULLY SOFTENED WATER)



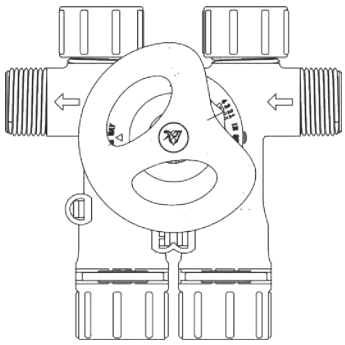
PASS WAY

(RAW WATER PASS)



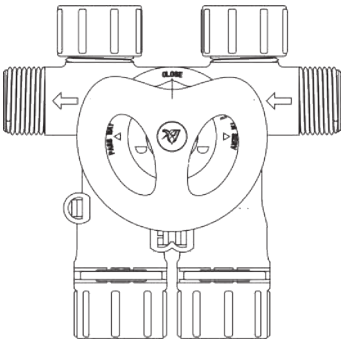
MIXING

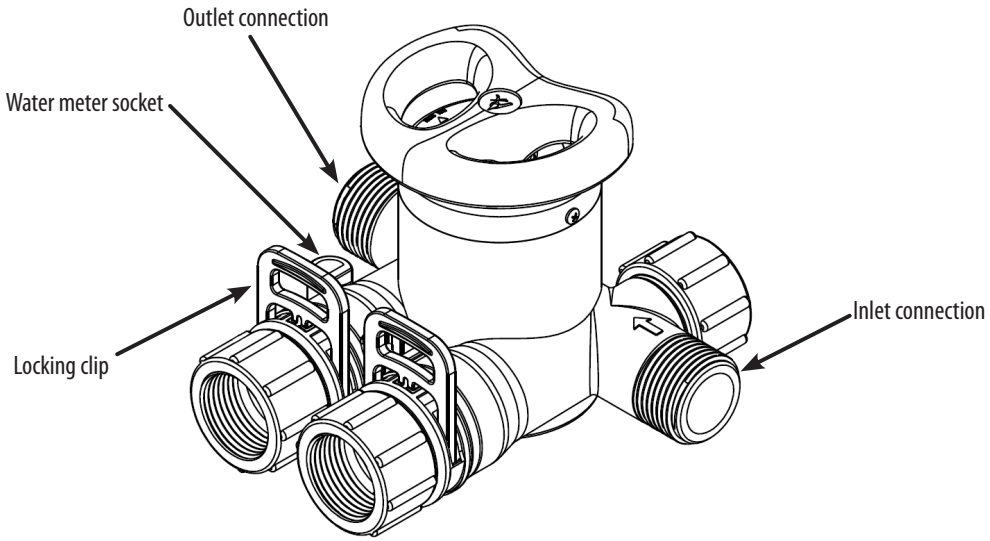
(SOFTENED WATER, MIXED WITH HARD WATER)



CLOSE

(KI/BEMENŐ ÁG ELZÁRVA)





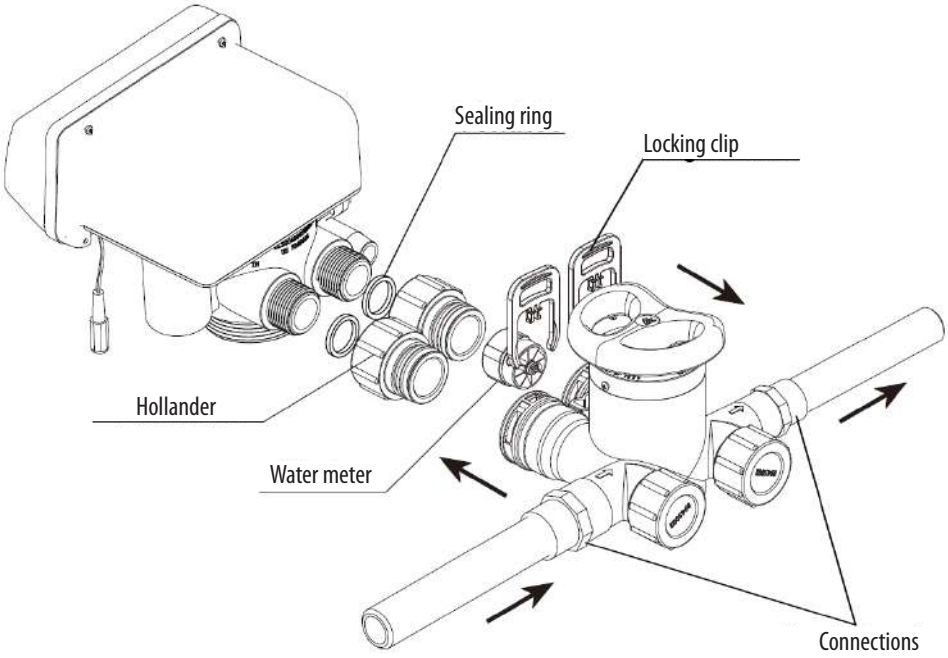
BYPASS VALVE CONNECTION AND INSTALLATION

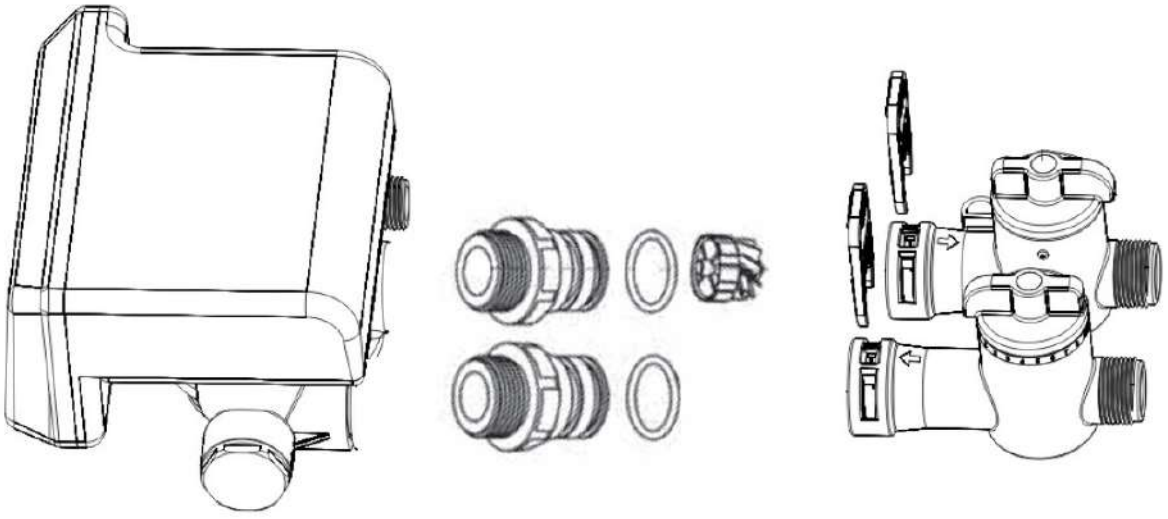
1. Remove the locking clips and internal threaded nuts from the bypass valve as shown in the figure.

2. Insert the sealing rings into the internal threaded sockets, then place and tighten them by hand, without tools, on both the inlet and outlet side of the control head (in the case of volume-controlled types, the outlet side already contains the water meter).
It is forbidden to use any other sealing material or tools apart from the factory sealing rings!

3. Place the bypass valve back on the hollander you've just installed and replace the locking clips.

4. Connect the bypass valve and pay special attention to the flow direction of the inlet/outlet branch and the water.



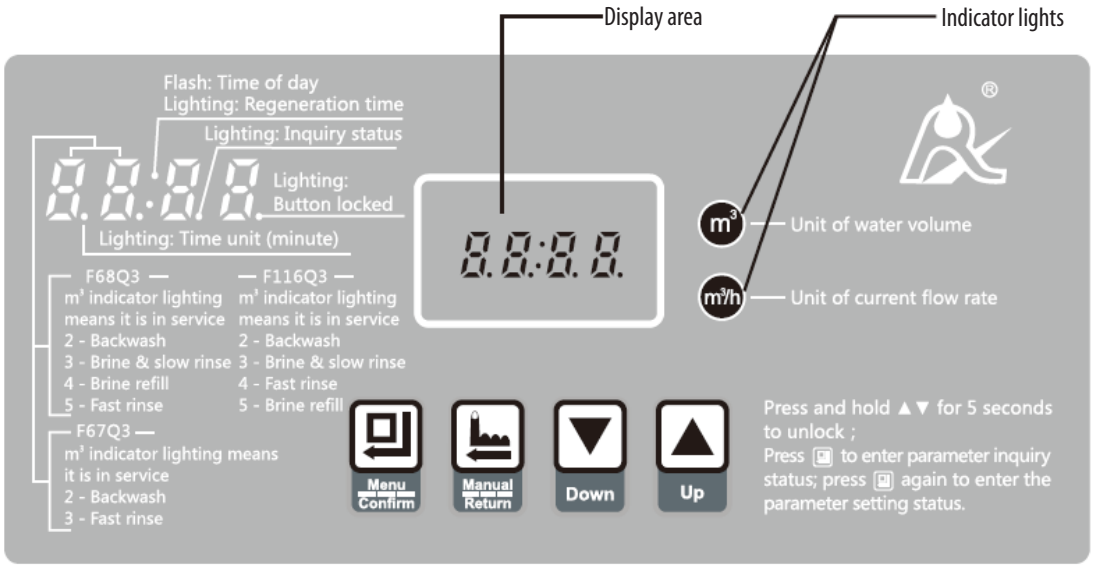


CONTROL PANEL INTRODUCTION

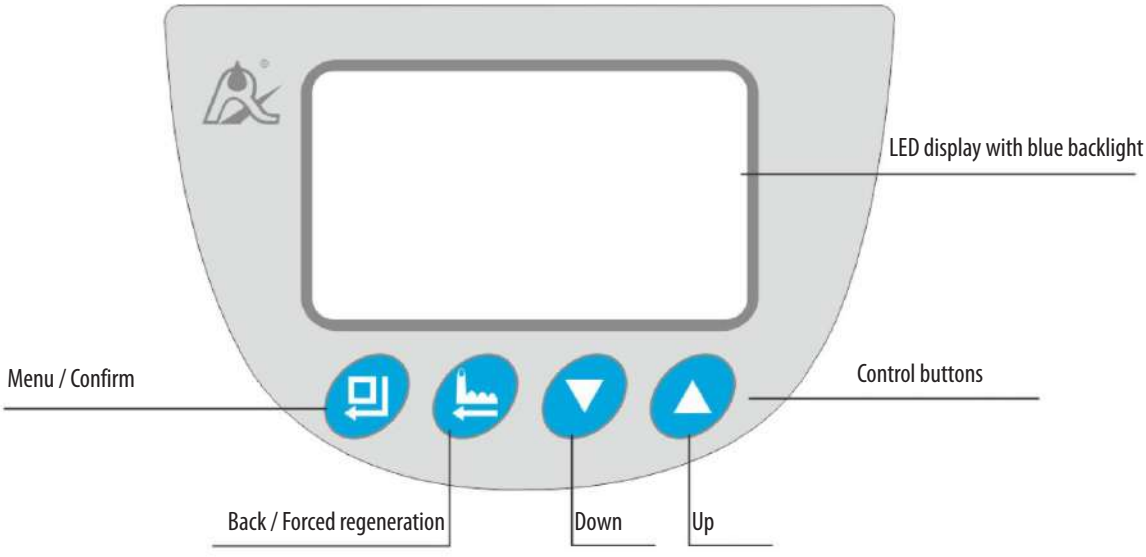
To unlock the keyboard, press and hold the **Up** and **Down** buttons simultaneously for 3 seconds.

The menu is accessed by pressing the **Menu / Confirm** button once. By scrolling with the down button, you can find the following menu items.

VR1, VR34 TYPES



VB1, VB34 TYPES



OPERATION IN CASE OF POWER FAILURE

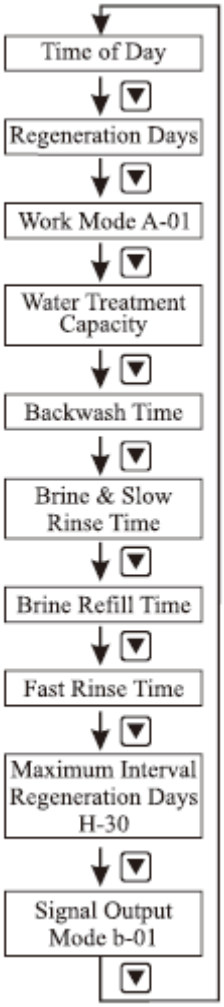
In the event of a power failure, the device remembers the date and time for 48 hours. The set values are automatically stored in a "non-volatile" memory module, so they are not lost in the event of a power failure. If the power supply stops during regeneration, the control valve will continue regeneration from the current position when the power returns.

Since a power supply is also required to measure water consumption, do not use the device without a suitable power supply!

PROGRAMMING GUIDE, MENU MAP
VR1, VR34 TYPES

In the state of water service, the separate icons on the display of the control valve of the equipment flash cyclically and display the parameter set for the given process or phase.

After unlocking the key lock, you can enter the menu with the Menu / Confirm button, and use the Down and Up buttons to select the parameter you want to set. The selected parameter is also set using the Menu / Confirm button. You can use the Up and Down buttons to change the desired value, which you can confirm with the Menu / Confirm button or go back without making changes using the Back / Forced regeneration button.



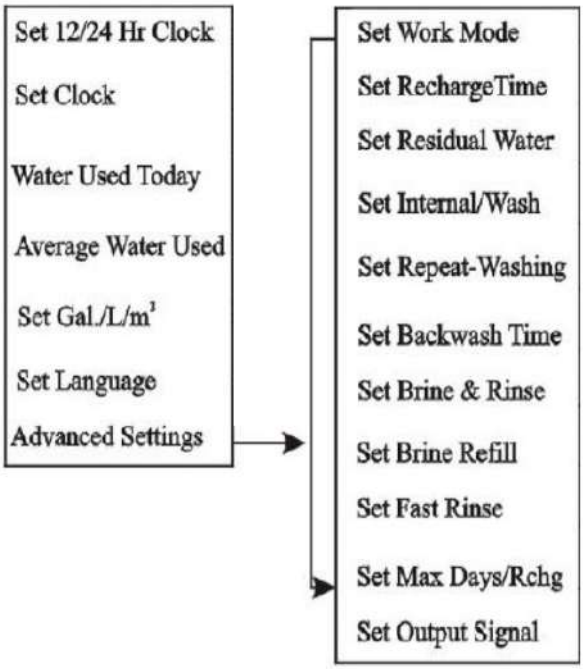
Menu	Specification
Time of Day	Displays the actual time of the day.
Regeneration days	Regenerate at the regeneration time even though the available volume of treated water does not drop zero (0).
Work mode	A-01 Meter Delayed: Regeneration will not start although the available volume of treated water drops to zero (0) until at the regeneration time. A-02 Meter Immediate: Regenerate immediately when the available volume of the treated water drops to zero (0).
Water Treatment Capacity	Water treatment capacity in once cycle (m^3).
Backwash Time	Backwash time in minutes.
Brine & Slow Rinse Time	Brine & slow rinse time in minutes.
Brine Refill Time	Brine refill time in minutes.
Fast Rinse Time	Fast rinse time in minutes.
Maximum Interval Regeneration Days H-30	Regenerate at the regeneration time even though the available volume of the treated water does not drop to zero (0).
Signal Output Mode b-01	b-01: Signal turns on when regeneration started and shuts off at the end of the regeneration. b-02: Signal available only in the intervals of each phase of the control valve.

NOTE BEFORE STARTING PROGRAMMING, CONNECT THE POWER SUPPLY TO THE POWER SOCKET OF THE CONTROL VALVE AND THEN TO THE ELECTRICAL WALL SOCKET.

PROGRAMMING GUIDE, MENU MAP
VB1, VB34 TYPES

In the state of water service, the separate icons on the display of the control valve of the equipment flash cyclically and display the parameter set for the given process or phase.

After unlocking the key lock, you can enter the menu with the Menu / Confirm button, and use the Down and Up buttons to select the parameter you want to set. The selected parameter is also set using the Menu / Confirm button. You can use the Up and Down buttons to change the desired value, which you can confirm with the Menu / Confirm button or go back without making changes using the Back / Forced regeneration button.



Menu	Specification
Set 12/24 Hr Clock	12/24 hour setting display
Set Clock	Set the actual time of the day
Water Used Today	The amount of water used today
Average Water Used	The average amount of water usage
Set Gal./L/m^3	Unit setting
Set Language	Set the language of the control valve
Advanced Settings	Advanced settings for professionals
Set Work Mode	Set the work mode (control mode) of the control valve
Set Recharge Time	Set the time of the regeneration
Set Residual Water	Set the amount of water used between regenerations
Set Internal/Wash	Internal backwas time in minutes
Set Repeat-Washing	Set the number of wash repetitions
Set Backwash Time	Backwash time in minutes
Set Brine & Rinse	Brine and rinse time in minutes
Set Brine Refill	Brine refill time in minutes
Set Fast Rinse	Fast rinse time in minutes
Set Max Days/Rchg	Set the maximum days between regenerations
Set Output Signal	Kimenő jel módja

NOTE

BEFORE STARTING PROGRAMMING, CONNECT THE POWER SUPPLY TO THE POWER SOCKET OF THE CONTROL VALVE AND THEN TO THE ELECTRICAL WALL SOCKET.

MAINTENANCE INSTRUCTIONS

CHECK THE SALT LEVEL

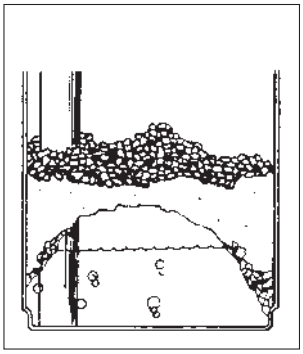
Check the salt level monthly. Remove the lid from the cabinet or brine tank, make sure salt level is always above the brine level.

NOTE	YOU SHOULD NOT BE ABLE TO SEE WATER IN THE CABINET OR BRINE TANK

ADDING SALT

Use only clean salt labeled for water conditioner use, such as crystal, pellet, nugget, button or solar. The use of rock salt is discouraged because it contains insoluble silt and sand which build up in the brine tank and can cause problems with the system's operation. Add the salt directly to the tank, filling no higher than the top of the brine well.

BRIDGING



Humidity or the wrong type of salt may create a cavity between the water and the salt. This action, known as "bridging", prevents the brine solution from being made, leading to your water supply being hard.

If you suspect salt bridging, carefully pound on the outside of the plastic cabinet or pour some warm water over the salt to break up the bridge. This should always be followed up by allowing the unit to use up any remaining salt and then thoroughly cleaning out the cabinet. Allow four hours to produce a brine solution, then manually regenerate the softener.

CARE OF YOUR WATER SOFTENER

To retain the attractive appearance of your new water conditioner, clean occasionally with a mild soap solution. Do not use abrasive cleaners, ammonia or solvents. Never subject your conditioner to freezing.

CHECK WATER HARDNESS

Regularly check the hardness of the incoming water and the hardness of the supplied water after mixing, and correct it if necessary.

CHECK MENU SETTINGS

If there is a possibility that someone will make changes to the setting parameters of the device, in order to maintain the functionality of the water softener, we recommend that you regularly compare the current settings with the settings recorded at the time of installation in the back of this manual.

SERVICING OF THE WATER SOFTENER

The water softening equipment distributed by **Euro-Clear Ltd.** can only be serviced by qualified mechanics. If you experience problems with the operation of your water softener or want to report a fault or maintenance, please contact our company, your reseller partner or the store where you purchased the product.

Contact details of our company:

- Telephone: +36 96 544 240
- Email: contact@euro-clear.eu
- Postal address: Euro-Clear Kft., 9071, Gönyű, Béke utca 2.

In case of warranty administration, you definitely need the invoice proving the purchase and the factory number on the quality certificate!

In the absence of this information, our company is unable to remedy the defect free of charge under warranty. In this case, our expert colleague will contact you and then give you a quote for servicing and maintaining the equipment.

The warranty becomes void:
- in the case of operation with non-communal water or with water that does not comply with local government regulations and laws;
- in case of non-compliance with maintenance instructions;
- in the event of non-compliance with the instructions for operating and environmental conditions.

Our company uses an online error reporting interface, which you can access at the following address: https://www.euro-clear.eu/en/euro-clear-complaint-handling/

You can access the interface from your phone using the following QR code:

⚠ CAUTION	**WITHOUT PROPER PROFESSIONAL KNOWLEDGE DO NOT ATTEMPT TO DO ANY REPAIR OR SERVICING ON THE EQUIPMENT AS IT COULD RESULT IN DAMAGING THE EQUIPMENT AND VOIDING YOUR WARRANTY.**
⚠ CAUTION	**IF THE EQUIPMENT IS MALFUNCTIONING OR HAS AN UNUSUAL BEHAVIOR, PLEASE UNPLUG IT FROM THE ELECTRICAL OUTLET AND DO NOT USE IT BEFORE CONSULTING WITH A SKILLED, PROFESSIONAL PERSON.**

QUALITY CERTIFICATE

1. Issuer of quality certificate: Euro-Clear Ltd.	**2. Producer:** Euro-Clear Ltd.
3. A termék szabatos megnevezése (rendeltetése): Automata vízlágyító berendezés.	Típus: .....
4. Quantity: 1 pc	
5. Product identification: a) Control valve number: ..... b) Product code: ..... c) Other details:	**6. Delivery and storage regulations:** It can be only transported and stored in standing position. Store in a cool, dry place, away from water and rain. Do not expose it to direct sunlight or UV radiation. Extremely frost-hazardous.
7. Packaging: Cardboard	**8. Method of quality check:** During production
9. Regulations for use and handling: As mentioned in the guide for using and handling.	**10. Production date:**
11. Main features of the product (with punctual technical data, results of measurements): Flow: ..... m^3/h Quantity of resin: ..... liter **Quality and classification: QC Passed!**	
12. Other details: Serial number:	**13. Signature and stamp of the issuer:** Date: Gönyű, ... signature, stamp

WARRANTY

Name of the person who installed the equipment: ……..…….

Contact details of the person who installed the equipment

- **Postal address:** ……..…….
- **Phone number:** ……..…….
- **E-mail address:** ……..…….

Seller company name (from whom you bought the softener): ……..…….

Contact details for the seller company

- **Postal address:** ……..…….
- **Phone number:** ……..…….
- **E-mail address:** ……..…….

Name of the operator of the equipment: ……..…….

Contact details for the operator of the equipment

- **Postal address:** ……..…….
- **Phone number:** ……..…….
- **E-mail address:** ……..…….

Type of the installed equipments: **BlueSoft** ……..……..…

Date of installation: ……..…….

.....

signature, stamp

The manufacturer guarantees the equipment, subject to intended use, according to the general warranty conditions, for 24 months from the date of commissioning, but a maximum of 30 months from the date of issue of the quality certificate. The guarantee and warranty are only valid in case of installation by Euro-Clear Ltd. or its representative.

INSTALLATION DATA SHEET

1. Check the mechanical and electical connections as follows:

- Is a mechanical protection filter built in front of the water softener? Yes No
- Is a pressure reducer built in front of the water softener? Yes No
- Inlet water pressure: _____ bar
- Are the directions of water flow convenient? (on the montage block / bypass valve, on the device) Yes No
- Drain connection is built properly and according to local regulations? Yes No
- Is the electricity input right? (230V, 50Hz) Yes No
- Raw water hardness: _____ °dH

2. Program your water softener equipment and record the settings below:

- Have you set the correct date and time? Yes No
- Time of regeneration: _____
- Water hardness has been set to: _____°dH

3. After finishing the regeneration process, check the water hardness coming from the equipment.

- Without mixing, is the water hardness below 1°dH? Yes No

4. Set the water hardness value according to the government regulation in force at the place of installation.

- Water hardness value is: _____ °dH

5. Fill the cabinet / brine tank with the suitable water softening tablet salt.

- Has the cabinet / brine tank been filled with tablet salt? Yes No

NOTES / COMMENTS:

_____
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