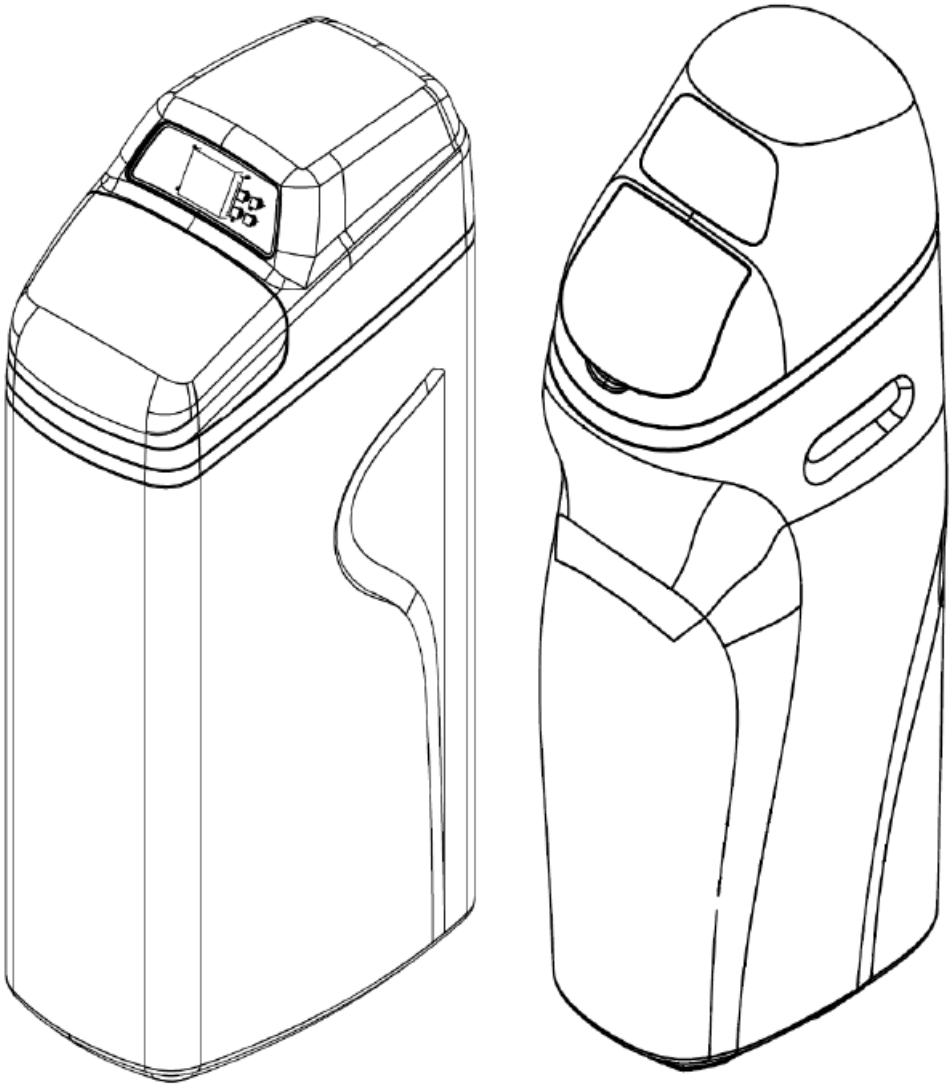
User manual



RainWater and SmartWaterSoftener Plug&Play Household, cabinet water softener

Number of the equipment's drinking water safety (NNK) certificate: 33722-9/2021/KTEF

1. Be sure to read this user manual before installation and use..

2. Be careful not to pinch the O-rings, use food-grade silicone grease to wet the seals.

3. The equipment is not suitable for treating microbiologically unsafe water or water of unknown origin and quality. In such cases, disinfection is required before or after the equipment.

TABLE OF CONTENTS

BE SURE TO READ THIS SECTION

BEFORE STARTING THE COMMISSIONING OF THE EQUIPMENT

►Read the user manual carefully before installation, commissioning and use.

Not following instructions may result in personal injury and/or property damage.

► 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.

►Operate the water softener at an incoming water pressure of 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 at a temperature range between 5°C and 40°C. The temperature of the water flowing through the equipment must not exceed 30°C.

►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 put back to operation again.

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

► 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.**

► The frequency of cleaning/replacing seals and closing elements depends on the quality and hardness of the treated water.

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

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

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

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

ATTENTION

BE SURE TO STUDY AND COMPLY WITH LOCAL REGULATIONS, LAWS, REGULATIONS!

⚠ CAUTION

DISASSEMBLY UNDER PRESSURE CAN LEAD TO FLOODING AND DAMAGE OF THE PREMISES!

FUNDAMENTALS OF WATER TREATMENT

WHAT IS HARD WATER AND HOW TO SOFTEN IT?

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 then it becomes colored due to the iron content and oxidation. 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 in such cases, 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) even when softened to the legally regulated minimum hardness (5Nk) typical of 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 the 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.

The 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. Use only table salt. Household, fine-grained salt cannot be used, as it can cause malfunctions.

⚠ ATTENTION

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

WATER SOFTENER EQUIPMENT SPECIFICATIONS
RAINWATER AND SMARTWATERSOFTENER P&P SERIES

Part no.	Product	Control valve type	Salt and water consumption / regeneration	In/out conn.	Flow rate	Resin Liter	Capacity	Size H x W x D
RW12/P&P	RainWater 12 Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	3/4"	1.2 – 1.5 m^3/h	12.5	30 m^3x°dH	660 x 380 x 525
RW18/P&P	RainWater 18 Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	3/4"	1.5—1.8 m^3/h	18	50 m^3x°dH	1100 x 380 x 525
RW25/P&P	RainWater 25 Plug&Play	®ECOPRO+	3,0 kg NaCl 140 liter H_2O	3/4"	1.8 – 2.2 m^3/h	25	75 m^3x°dH	1100 x 380 x 525
RW30/P&P	RainWater 30 Plug&Play	®ECOPRO+	3,6 kg NaCl 160 liter H_2O	3/4"	2.0 – 2.5 m^3/h	30	90 m^3x°dH	1100 x 380 x 525
RW12HF/P&P	RainWater 12 HF Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	1"	1.2 – 1.8 m^3/h	12.5	30 m^3x°dH	660 x 380 x 525
RW18HF/P&P	RainWater 18 HF Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	1"	1.5—2.0 m^3/h	18	50 m^3x°dH	1100 x 380 x 525
RW25HF/P&P	RainWater 25 HF Plug&Play	®ECOPRO+	3,0 kg NaCl 140 liter H_2O	1"	2.0 – 2.5 m^3/h	25	75 m^3x°dH	1100 x 380 x 525
RW30HF/P&P	RainWater 30 HF Plug&Play	®ECOPRO+	3,6 kg NaCl 160 liter H_2O	1"	2.5 – 3.0 m^3/h	30	90 m^3x°dH	1100 x 380 x 525

Part no.	Product	Control valve type	Salt and water consumption / regeneration	In/out conn.	Flow rate	Resin Liter	Capacity	Size H x W x D
SWS12/P&P	SmartWaterSoftener 12 Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	3/4"	1.2 – 1.5 m^3/h	12.5	30 m^3x°dH	790 x 390 x 480
SWS18/P&P	SmartWaterSoftener 18 Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	3/4"	1.5—1.8 m^3/h	18	50 m^3x°dH	1070 x 390 x 480
SWS25/P&P	SmartWaterSoftener 25 Plug&Play	®ECOPRO+	3,0 kg NaCl 140 liter H_2O	3/4"	1.8 – 2.2 m^3/h	25	75 m^3x°dH	1070 x 390 x 490
SWS30/P&P	SmartWaterSoftener 30 Plug&Play	®ECOPRO+	3,6 kg NaCl 160 liter H_2O	3/4"	2.0 – 2.5 m^3/h	30	90 m^3x°dH	1070 x 390 x 490
SWS12HF/P&P	SmartWaterSoftener HF 12 Plug&Play	®ECOPRO+	1,6 kg NaCl 90 liter H_2O	1"	1.2 – 1.8 m^3/h	12	30 m^3x°dH	790 x 390 x 480
SWS18HF/P&P	SmartWaterSoftener HF 18 Plug&Play	®ECOPRO+	2,2 kg NaCl 110 liter H_2O	1"	1.5 – 2.0 m^3/h	18	50 m^3x°dH	1070 x 390 x 480
SWS25HF/P&P	SmartWaterSoftener HF 25 Plug&Play	®ECOPRO+	3,0 kg NaCl 140 liter H_2O	1"	1.8 – 2.2 m^3/h	25	75 m^3x°dH	1070 x 390 x 490
SWS30HF/P&P	SmartWaterSoftener HF 30 Plug&Play	®ECOPRO+	3,6 kg NaCl 160 liter H_2O	1"	2.0 – 2.5 m^3/h	30	90 m^3x°dH	1070 x 390 x 490

CONTROL VALVE DESCRIPTION

®ECOPRO+

The ECOPRO water softener can also be equipped with the safety salt valve, BIO disinfection function, the software SafeHOME function, as well as an optional floor waterer as standard accessories. The water softener works with a dry salt bed, so there is no water loss between the two regenerations. It also includes a calculation-based salt monitoring function, and a vacation program is also available to reduce further water loss during the trip. Due to the Plug&Play function, the equipment is not required to be commissioned.

DESCRIPTION OF FUNCTIONS

- **The BIO disinfection function:** By using the resin bed disinfectant during regenerations, the device not only uses the Na+ ions from the salt tablet (NaCl), but also uses Cl- ions to disinfect the resin bed during each regeneration. In almost all Western European countries, water softening equipment can only be sold with a resin bed disinfection unit.

- **The SafeHOME function:** a water consumption monitoring system. In the case of peak consumption protection, if consumption with a higher volume flow occurs than the peak value set by the consumer, the equipment blocks the water path, assuming a pipe break. In the case of temporal protection, if consumption exceeds the pre-set water consumption time, it appears to the system as a pipe break or leakage, and the water softener blocks the water path. The system can be supplemented with an additional, optional water leakage sensor, which increases the effectiveness of protection against water damage.

- **The salt sensor function:** in some devices, sensor-based detection takes place, while others send an alarm based on a calculation to refill the salt. In the case of the Midnight series, the application installed on our smartphone also indicates that the device has run out of salt.

- **Plug&Play function:** there is no need for an installation specialist, because the device installs itself by pressing a single button. All you have to do is set the exact time, water hardness, and fill the device with salt tablets, then press a button for 3 seconds, after which the device will start up automatically. This feature can save you money. We provide a standard 4-year manufacturer's warranty for devices equipped with the Plug&Play function. In the case of most competing water softeners on the market, the stated warranty period is conditional upon the completion of annual maintenance work. In the production of Plug&Play water softeners, we use high-quality materials in order to ensure the long-term, safe operation of the equipment.
Our equipment does not require annual maintenance within the indicated warranty period.

- **With the Plug&Play function**, you can save not only the installation costs, but also the annual maintenance costs! Due to the mandatory annual maintenance, you will almost pay the price of a water softener again in 6 to 8 years.

Specification		Requirement
Working conditions	Water pressure	2-5 bar
	Water temperature	max. 30°C
Environment conditions	Ambient temperature	5-40°C
	Relative humidity	≤ 95% (25°C)
	Electric data	AC100-240V/50-60Hz
Inlet Water Quality	Turbidity	≤ 2FTU
	Hardness	5-35°nk
	Free chlorine	< 0,1 mg/l
	Iron^{2+}	< 0,2 mg/l
	Mn	< 0,05 mg/l
	COD	< 0,2 mg/l

The capacity and performance of the equipment and the quality of the incoming water may differ.

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:

- the equipment can only be operated with drinking water quality (based on local regulations - consult your local government or water utility for exact water quality parameters and regulations).

- area of application: tap water, domestic after-treatment (water softening)

- during start-up, or longer (over 2-3 days) downtime, as well as after disinfection, the written in the manual. It is necessary to regenerate the equipment during commissioning and after downtime. More than 2-3 days after interruptions in operation, the equipment must be flushed, but at least 5 minutes of flow is required, at each water withdrawal tap, which is supplied by the water treated by the equipment. The water obtained during rinsing must not be used as drinking water or for eating purposes.

- commissioning and regular disinfection and maintenance must be performed by the distributor or his agent as a service provide to the user

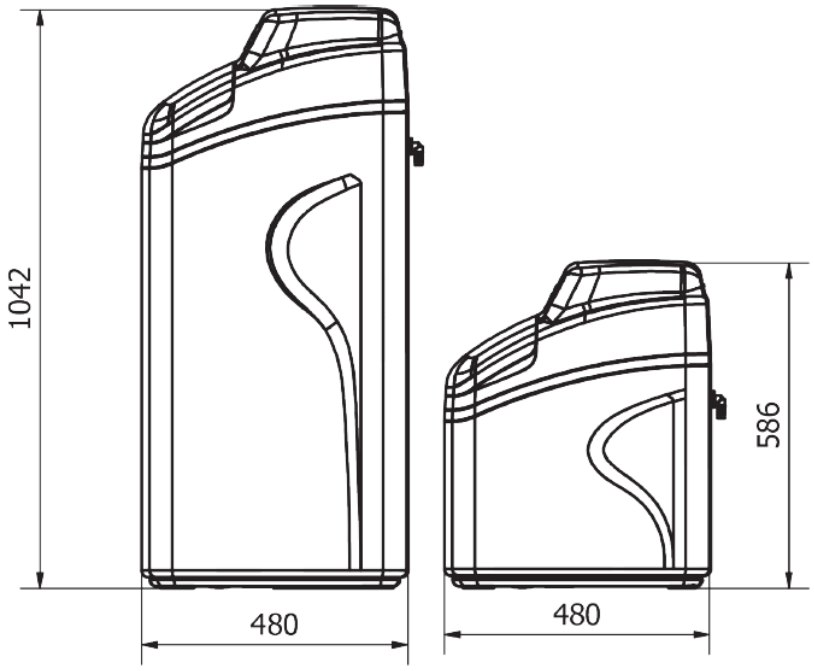
- the protection of the equipment against the proliferation of bacteria by disinfecting it regularly every 3 months, as well as must be ensured by regular, at least weekly, regeneration. The disinfection must cover the equipment and the also for the network section between consumer taps

- the equipment can be suitable for significantly reducing the total hardness of tap water. The degree of reduction is by-pass depends on the set mixing ratio. In case of use as drinking water, the by-pass ratio must be set so that the treated total water hardness should be at least 50mg/l CaO (5Nk-German hardness). In case of use for other purposes, there is none obstacle is that softer water is used

- the use of water treated by the equipment is not recommended for pregnant women and children under the age of 3, the formation of nitrites because of its risk

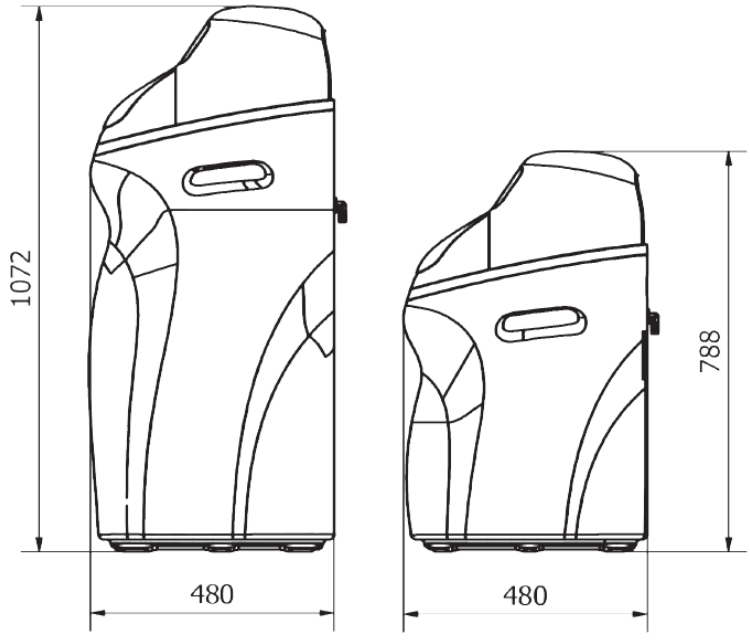
- when adjusting the hardness of softened drinking water produced by the equipment with a by-pass valve (the legal also within the limits of 5-30 German hardness according to regulations), please note that the water softener is NaCl regeneration, so the during ion exchange, sodium is introduced into the water. The sanitary limit value, the water hardness achievable with the equipment, must be maintained (incoming-outgoing) change can be limited by the sodium content of the incoming water.

DIMENSIONS OF WATER SOFTENING EQUIPMENT



RainWater
18, 25, 30

RainWater
12



SmartWaterSoftener
18, 25, 30

SmartWaterSoftener
12

UNPACKING AND INSPECTING THE WATER SOFTENER

The equipment can only be delivered in a set up state. Inspect the water softener thoroughly to make sure there is no shipping damage. If you find damage to the equipment or its packaging, immediately notify the shipping company 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!

COMMENT

IF YOU EXPERIENCE TOO LARGE PRESSURE DROP AFTER THE EQUIPMENT IS USED, THEN IT IS DEFINITELY CAUSED BY A DECLINE THAT HAPPENED DURING TRANSPORTATION, AND IT HAS BEEN LOST ON 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:

- 2 pcs O-rings
- bypass valve
- power adapter

Recommended accessories:

- mechanical prefilter (CPF and DFA series)
- 3-way sewer inlet siphon with non-return valves (PG/1)
- tablet regenerating salt (TBS-SAL)

INSTALLATION GUIDE

SELECT THE LOCATION OF THE WATER SOFTENING 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 channel to channel.

3. A channel connection option (32-40mm) should 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 water source is a community water main, a 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.

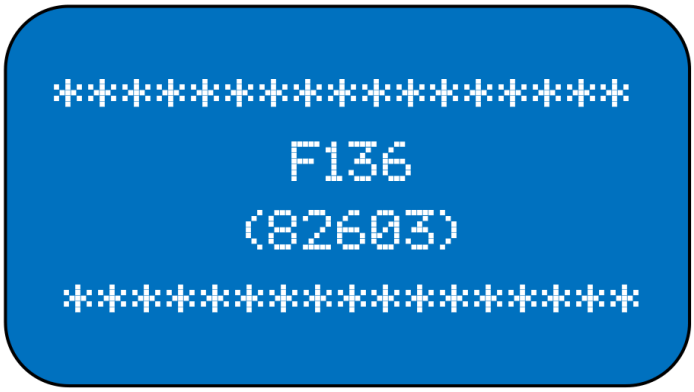
10. A 230V wall plug must be installed

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.

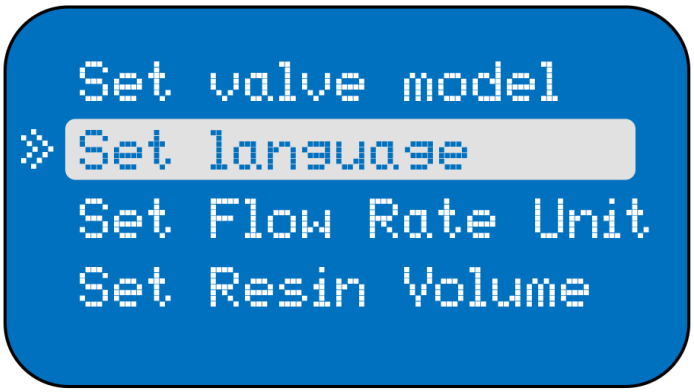
13. Note that the water softener, during regeneration, does not supply water in the first phase and only hard water in the other phases. In order to avoid a significant pressure drop, always time the regeneration for the users' inactive period (by default 2 hours at night).

SETTING THE LANGUAGE OF THE SOFTENER



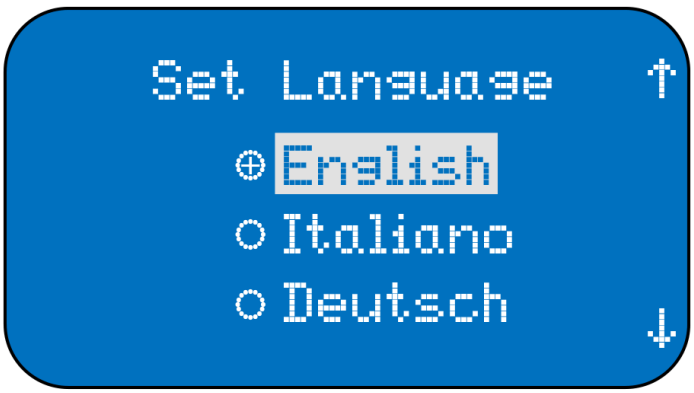
The first step of changing the language of the softener is depowering the equipment. After reconnecting it to the power supply, please wait until the screen shows the control valve type.

During this time, please **press and hold** down the Force reg / Back button and Down button until the service menu shows up where you can see the "Set language" option.



The second step is to enter the "Set language" menu where you can see the available languages.

You can enter this menu with the Menu / Confirm button.



After entering the language selection menu, you can see all the available languages.

Use the up and down buttons to navigate through the list and select the desired language.

Once selected, you can set the language with the Menu / Confirm button.

COMMENT	WHEN INSTALLING THE EQUIPMENT, ALL OFFICIAL REGULATIONS VALID IN THE GIVEN COUNTRY MUST BE COMPLIED WITH!

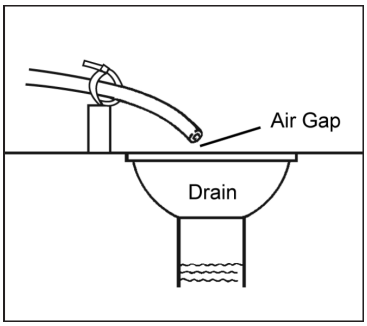
In any case, the installation must be carried out by a specialist. We are not responsible for damages resulting from improper wiring.

TOOLS REQUIRED FOR INSTALLATION:

► Adjustable wrench, 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.
► 32 mm diameter piping is required to connect the siphon

More information:

- it is the customer's responsibility to connect the equipment to the water, waste water and electricity network
- the operator of the equipment and the specialist performing the installation 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
- commissioning of the equipment can be carried out by Euro-Clear Kft.'s commissioning or service partner. Commissioning the equipment only means adjusting the automatic control valve according to local conditions, not installation.
- during installation, you must follow the locally valid installation regulations, general instructions, general hygiene regulations and ensure that the installation conditions specified above are observed.
- 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 that may be necessary during a break in water production, regeneration.
- in front of the equipment due to possible pressure shocks and pressure fluctuations a pressure reducer or a mechanical filter with a pressure reducer is required to install. 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.



⚠ ATTENTION

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.

⚠ ATTENTION

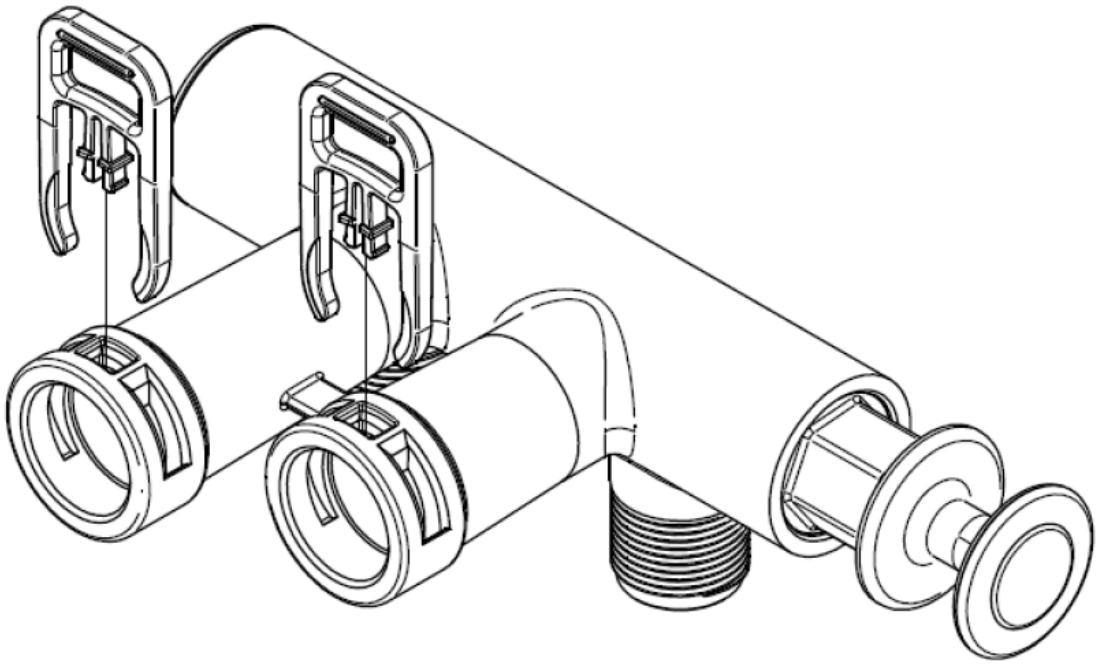
DO NOT CONNECT THE DUCT CONNECTION HOSE DIRECTLY TO THE SEWER PIPE, ALWAYS LEAVE A DISTANCE BETWEEN THE END OF THE EQUIPMENT DUCT HOSE AND THE MEDIUM FLOWING IN THE MAIN DUCT BRANCH. TO AVOID BACKFLOW AND BACK-VENTILATION, USE A SIPHON FITTED WITH A BALL CHECK VALVE.

COMMENT

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

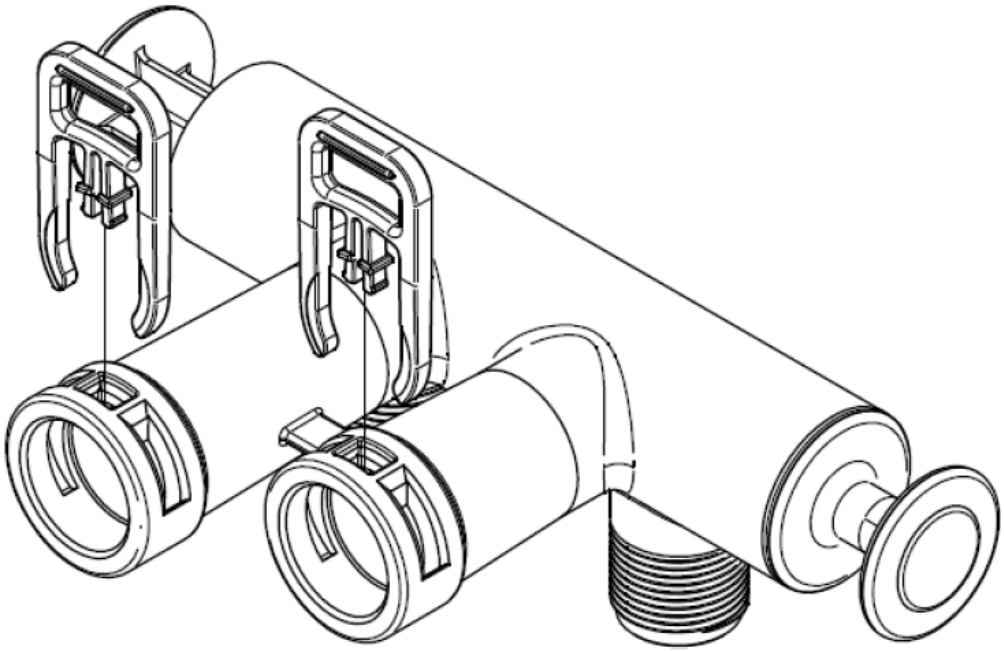
3/4 " BY-PASS VALVE

IN SERVE (Fully softened water)



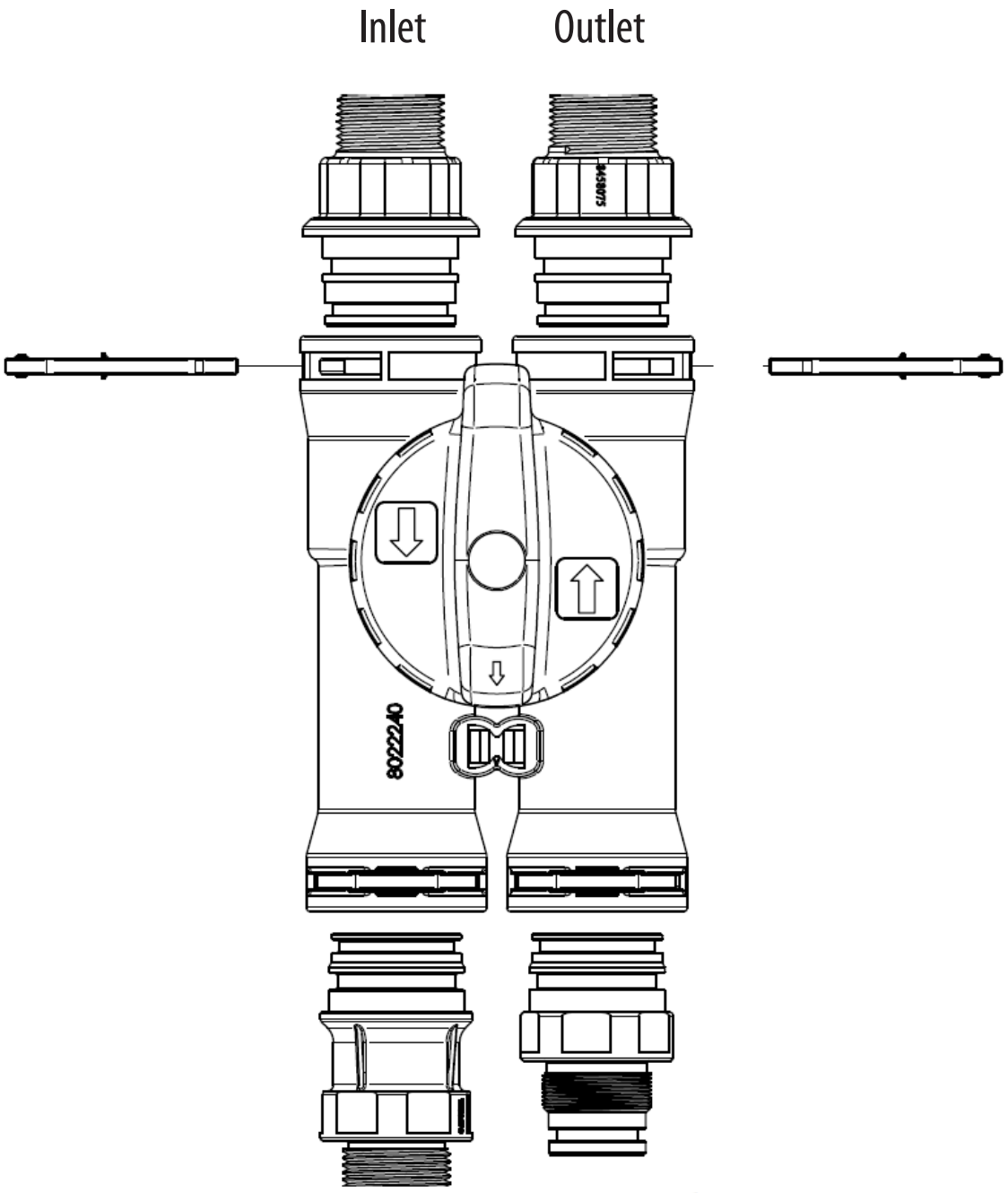
In the extended position, water flows through the softener
This means that complete softening is applied and softened water is supplied

PASS WAY (Raw water flows through)



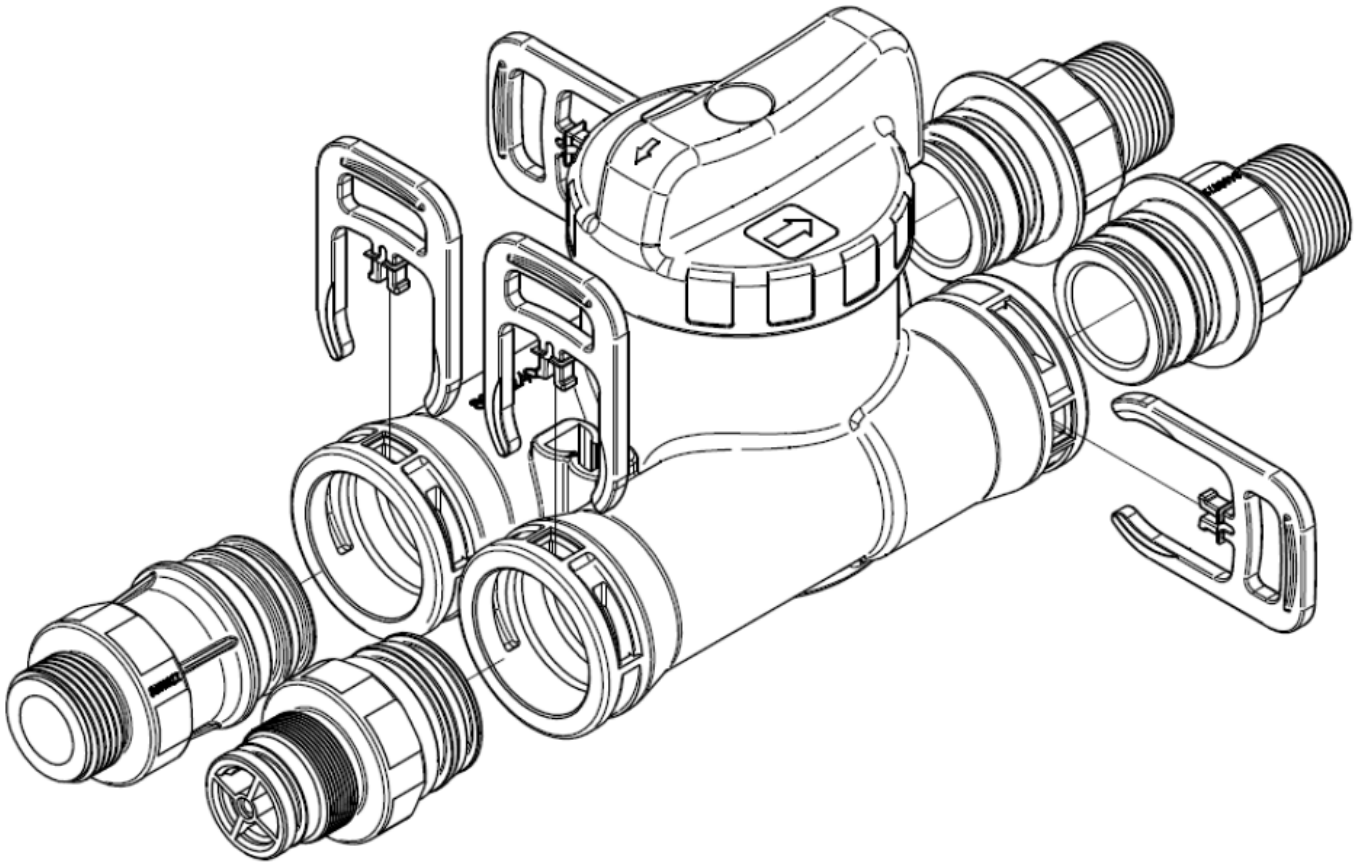
In the pushed position, the softener is bypassed
This means that the water line skips the water softener and raw water is used for water supply.

1" BY-PASS VALVE



When the rotating arm is parallel to the stumps, the water flows through the softener, the softening is complete

By turning the rotary lever a full 90 degrees, the softener is bypassed by the raw water, the softener is turned off



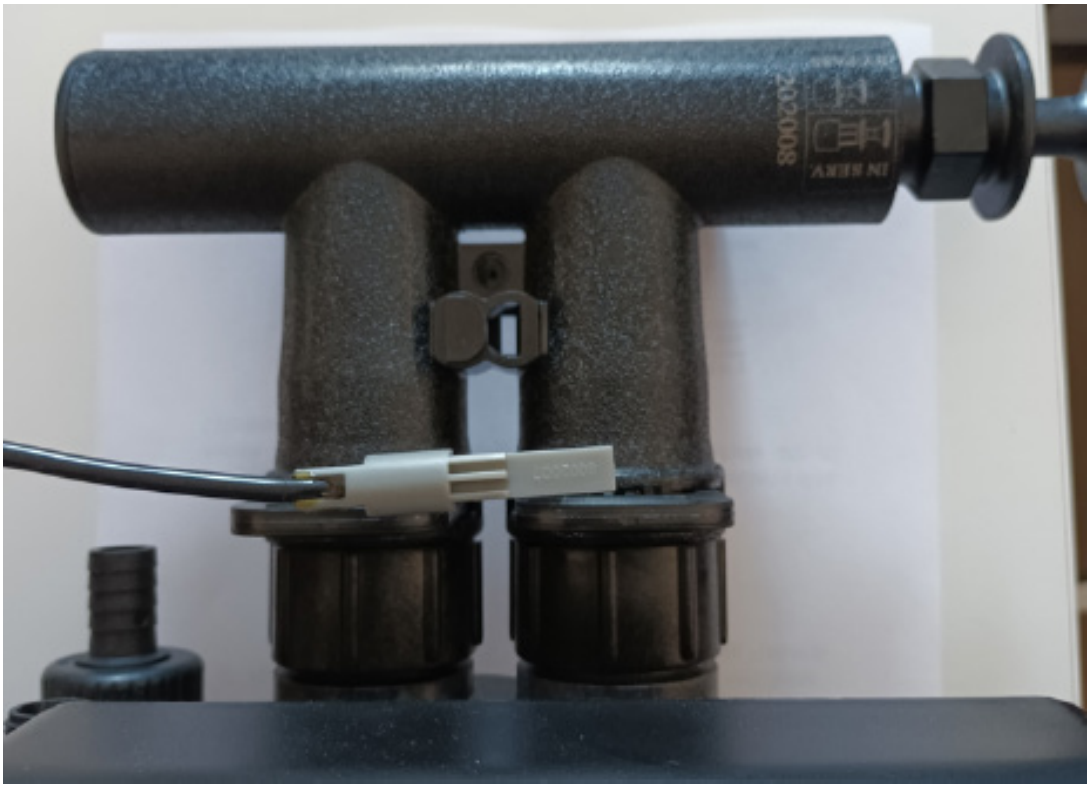
Input and output stubs may vary.

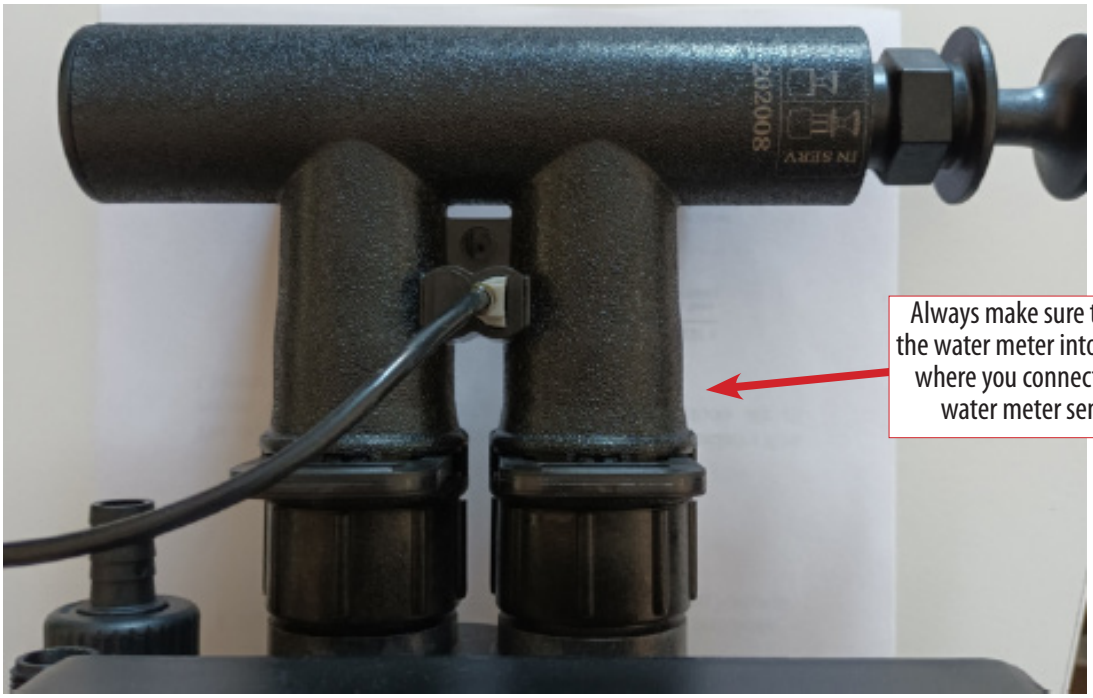
It is possible in a horizontal or vertical version.

IMPORTANT

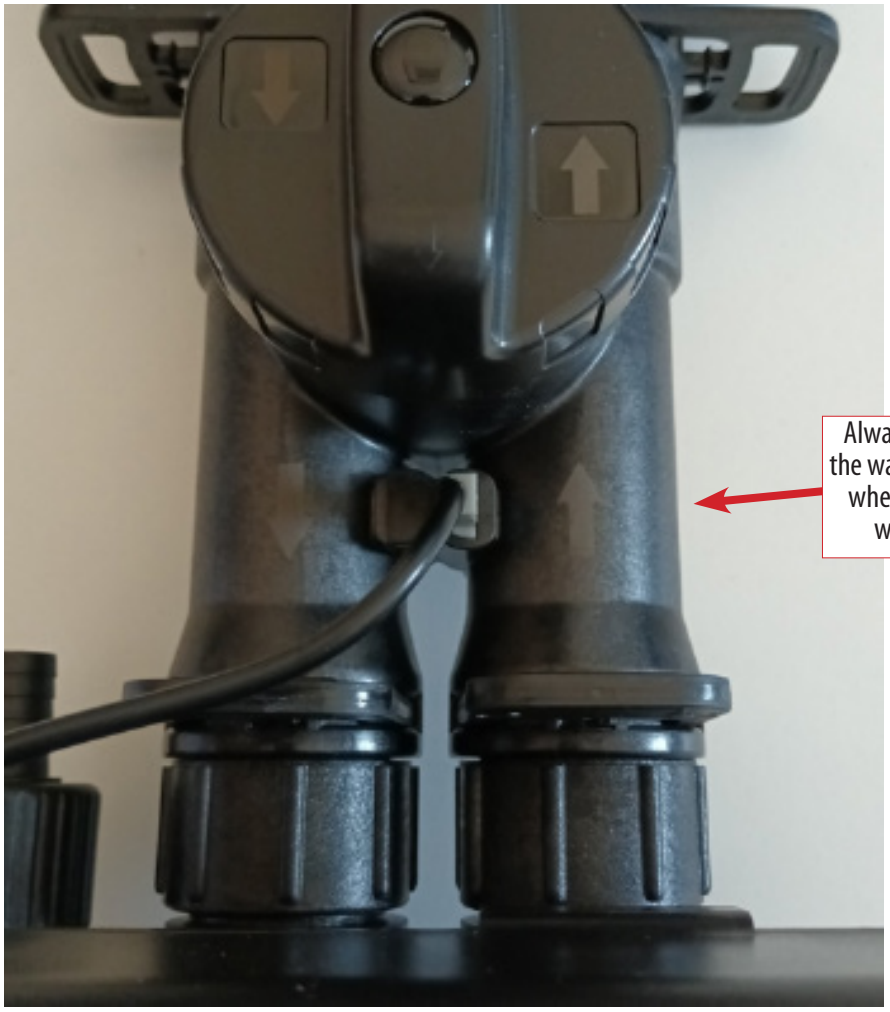
Snap the water meter sensor connector into place for proper operation.

The sensor is always on the outlet side!





** The By-pass valve may be different by type of control valve**

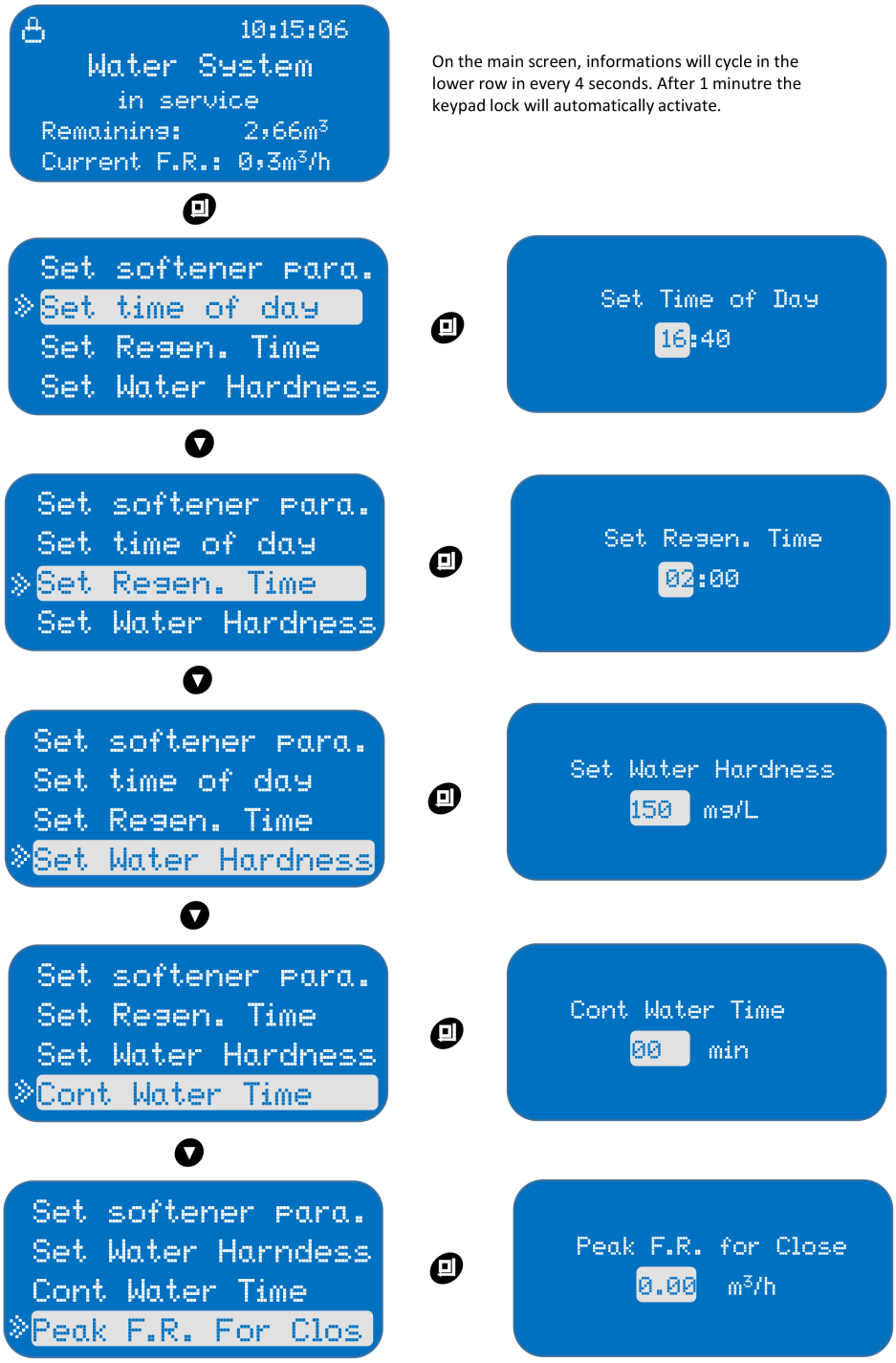


Always make sure to place the water meter into the side where you connected the water meter sensor!

** The By-pass valve may be different by type of control valve**

MENU

To unlock the keyboard, press and hold the Up and Down buttons simultaneously for 5 seconds.
The menu is accessed by pressing the button once. By scrolling with the down button, you can find the following menu items.



OPERATION IN CASE OF POWER OUTAGE

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!

MAINTENANCE INSTRUCTION

CHECKING SALT LEVEL

Check the salt level monthly. Remove the top of the cabinet and make sure the salt level is above the brine.

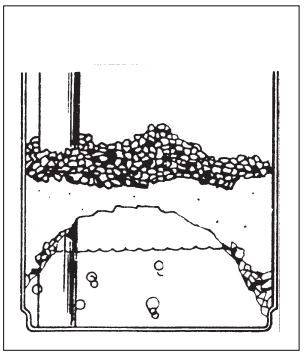
COMMENT	YOU WILL NOT SEE THE WATER IN THE CABINET / SALT TANK.

REFILLING SALT

Only use salt suitable for water softening that can be placed in the equipment (e.g. salt tablets). The use of rock salt and table salt is not recommended, as it may contain mud and sand, and may cause clogging of the brine suction valve and injector system. Pour the salt directly into the cabinet.

CAVITATION

If the humidity is high or if the wrong salt is used, the salt may clump together. In this case, a so-called vaulting cavity can form under the amount of salt, so no brine can be created, as a result of which the softener cannot regenerate, so it will supply hard water.



If there is a suspicion of vaulting, carefully tap the side of the cabinet or pour a little warm water on the accumulated salt, which will dissolve it. Then, let the water softener use up all the salt, then clean the cabinet thoroughly. Wait four hours for the proper brine concentrate to be created, then start a manual regeneration.

Taking care of the water softener

To keep your water softener shiny and spotless on the outside, wash it occasionally with soapy water. Do not use abrasives, ammonia or any other solvents for cleaning. Only store and operate in a frost-free place.

Water hardness check

Regularly check the hardness of the incoming water and the hardness of the supplied water after mixing, 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 THE WATER SOFTENING EQUIPMENT

The water softening equipment sold by Euro-Clear Kft. 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.

Contacts:

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

In the event of an error report, try to provide us with as much information as possible (device type, photos of the installation, error phenomenon...), thus speeding up the process and helping our work.

In case of warranty administration, the invoice proving the purchase and the factory number shown on the quality certificate are absolutely necessary!

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.

ATTENTION DO NOT ATTEMPT TO REMOVE THE FAULT WITHOUT APPROPRIATE TRAINING AS THIS CAN EASILY DAMAGE THE EQUIPMENT AND VOID YOUR WARRANTY.

ATTENTION IF THE EQUIPMENT IS MALFUNCTIONING OR YOU EXPERIENCE UNUSUAL PHENOMENA, UNPLUG IT AND DO NOT USE UNTIL YOU HAVE CONSULTED WITH OUR PROFESSIONALS.

QUALITY CERTIFICATE

1. Quality certificate issuer: Euro-Clear Kft.	**2. Producer:** Euro-Clear Kft.
3. The specific name of the product (purpose): Automatic water softener.	Type: .....
4. Quantity: 1 pc	
5. Product identification: a) Control valve serial number: ..... b) Item number: ..... c) Other identification data:	**6. Transport and storage regulations:** It can only be transported and stored in standing position. Store in a dry, cool place, away from water and precipitation. Do not expose to direct sunlight or UV radiation. Extremely frost-prone.
7. Wrapping: Cardboard paper	**8. The test method used to check the quality of the product:** Inter-production
9. Instructions for use and handling: According to the handling and use instructions.	**10. Production date:**
11. Essential product features (with complete technical data, measurement results): Peak flow: ..... m^3/h Amount of resin: ..... liter **Qualification, classification: Adequate!**	
12. Other data: Serial Number:	**13. Signature of the issuer of the quality certificate:** Dated, Gönyű, ... signature, stamp

Warranty Card

Name of the installation specialist: **……**

Contact details of the installation specialist

- **Adress:** **……**
- **Telephone:** **……**
- **E-mail:** **……**

Dealer (from whom you bought the equipment) company name: **……**

Contact details of the dealer (from whom you bought the equipment).

- **Adress:** **……**
- **Telephone:** **……**
- **E-mail:** **……**

Equipment operator name: **……**

Contact details of the equipment operator

- **Adress:** **……**
- **Telephone:** **……**
- **E-mail:** **……**

Type of installed equipment: **BlueSoft ……**

Commissioning date: **……**

.....
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 Kft. or its representative.

Warranty Card

1, Check the mechanical and electrical connections on the device as follows:

- Is a mechanical protective filter with a fineness of ≤50 µm installed in front of the water softener? Yes No
- If not, the customer must be informed that the pre-filter is a condition of the warranty! Yes No
- Incoming water pressure value: _____ bar
- Are the water flow directions correct? (on assembly block / bypass valve, device) Yes No
- Has the channel been connected in the correct way, in accordance with the regulations? Yes No
- Is the power supply adequate? (230V, 50Hz) Yes No
- Raw water hardness value: _____ °nk

2, Program the water softener control valve and record the settings below:

- Is the correct date and time set? Yes No
- Time of regeneration: _____
- Water hardness: _____
- Continuous water flow: _____
- Peak flow: _____

3, After the regeneration is finished, check the hardness of the water coming out of the device.

- Without back-mixing, the hardness of the water is below 1°dh? Yes No

4, Set the water hardness value to a minimum of 5 °dh.

- The value of the set water hardness: _____ °dh

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

- The brine tank has been filled with tablet salt? Yes No

NOTES:

_____
_____
_____
_____
_____