

WEH1350



109889

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Read carefully these instruction manual before undertaking any work with the device, in particular before its startup!

1. General instructions

- This instruction manual contains information about the installation, operation and maintenance of the device and should be consulted as an important source of information and reference guide.
- Awareness of the safety instructions and instructions for use in this manual will ensure the safe and correct use of the device.
- In addition to the information given here, you should comply with any local Health and safety Controls and generally applicable safety regulations.
- The instruction manual forms part of the product and should be kept near the device and easily accessible for anyone carrying out the installation, servicing, maintenance or cleaning. Please keep these instructions and give them to future owners of the device.
- All persons using the device must follow the recommendations and instructions in this instruction manual.
- Manufacturer **is not liable for** any damages or faults caused by:
 - violation of advice concerning operation and cleaning;
 - use other than designed;
 - alterations made by user;
 - use of inadequate spare parts.
- Do not use any accessory or spare parts that have not been recommended by the manufacturer. These can be dangerous for the user or lead to damages of the device or personal injury, and further, the warranty expires.
- To prevent hazards and to ensure optimum efficiency, no modifications or alterations to the device that are not explicitly approved by the manufacturer may be undertaken.
- Temperature at the site of installation cannot be lower than 10 °C.
- Protect the device against freezing temperature.
- The device's installation site must be protected against flooding with water (e.g. through the existing floor drain). The manufacturer is not responsible for any damages resulting from flooding the system with water.
- In case of any inquiries or ordering of spare parts please quote the code number and serial number of the device. This ensures quick and effective processing of inquiries and orders.

2. Safety instructions, standards, legal and regulatory provisions

- Water supplying the water softening system must have the drinking water quality and comply with local regulations.
- The maximum temperature of the supplied water may not exceed 40 °C.
- Components of the water softening system that come into contact with water must be made of appropriate water-resistant material.
- Make sure that a floor drain is available at the site of installation of the water softening system.
- Do not disassemble the water softening system during its operation.
- Do not open the water softening system, as this will void the guarantee.

3. Intended use

Safe operation of the device is only guaranteed when using the device for its intended purpose according to the instruction manual.

The water softening device is designed for removing undesired mineral substances in the tap water (calcium and magnesium).

The water softening device is part of the dishwasher protection system.



CAUTION!

Any use going beyond the intended purpose and/or any different use of the device is forbidden and is not considered as conventional.

Any claims against the manufacturer or his authorized representative as a consequence of experiencing damages resulting from unconventional use are impossible.

The operator is liable for all damages resulting from inappropriate use.

4. Transport, packaging and storage

4.1 Delivery check

Please check the delivery upon completeness and transport damage immediately after receipt. In case of visible damage do not accept or accept the delivery with reservation only.

Note the extent of damage on the carrier's bill of delivery. Trigger off the complaint.

Hidden damages should be reclaimed immediately after notice, as claims for damages can only be asserted within the effective period for complaints.

4.2 Packaging

Please do not throw away the covering carton of your device as it might be useful for storage purposes, when moving or, in case of damages, when the device must be sent back to a repair center. The outer and inner packing material should be removed completely from the device before installation.



NOTE!

Drain water from the system before shipment to avoid damaging the packaging caused by water leakage.



NOTE!

If you liked to dispose the packing, consider the regulations applicable in your country. Supply re-usable packing materials to the recycling.

Please inspect the device upon completeness. In case any part is missing please contact our customer service center immediately.

4.3 Storage

Keep the package closed until installation and under consideration of the outside indicated positioning- and storage markings.

Packages should be stored under consideration of the following:

- Do not store outdoors.
- Keep it dry and dust-free.
- Do not expose it to aggressive media.
- Do not expose it to direct sunlight.
- Avoid mechanical shocks and vibration.

- In case of longer storage (> 3 months) make sure you check the state of the packaging and the parts regularly. If required refresh or renew.



CAUTION!

Before the first use of the product in the recommended ambient temperature, after being stored or transported in the temperature below 0° C, leave the device for at least 24 hours in an open original packaging.

5. Description of the device

5.1 Operation

Hard water includes a combination of calcium (Ca), magnesium (Mg) and iron (Fe). Softening of water consists in removing positively charged ions by treating them with the ion-exchange resin. When the ion-exchange resin loses its properties, it is reactivated thanks to the regeneration process.

Regeneration

During the regeneration the deposits are rinsed with brine and the absorbed calcium and magnesium ions are flushed to the drain.

Regeneration is performed automatically in a smart and logic way; based on the water consumption within the last 7 days the system independently chooses the day of regeneration within the set time limit. During the regeneration (60 minutes) there is no access to the softened water.

Regeneration process consists of 4 cycles:

- 1. backwash (5 minutes)**
- 2. regeneration agent (brine) rinse (50 minutes)**
- 3. regeneration agent (brine) refill (30 seconds)**
- 4. fast rinse (5 minutes)**

5.2 Structure of the water softening system

The system was designed for 0.7kg of the brine per regeneration.
The amount of softened water between regenerations is calculated according to the following formula.

$$Z = 1350 \times 10 / Y$$

Where **Z** – amount of softened water between the regenerations
Y – measured hardness of water according to dH (German degree).

Example of calculation of the amount of softened water between regeneration processes:

Measured water hardness is 15° dH.

Amount of Z water softened between the regeneration processes is calculated in the following way: $Z = 1350 \times 10 / 15 = 900$ litres.

With the water hardness of 15° dH, 900 litres of softened water are produced.

Volume table

Water hardness (°)				Softened water (l)
English degrees	French degrees	PPM	German degrees	
12,5	18,0	178,6	10	1350
13,8	19,8	196,5	11	1227
15,0	21,6	214,3	12	1125
16,3	23,4	232,2	13	1038
17,5	25,2	250,0	14	964
18,8	27,0	267,9	15	900
20,0	28,8	285,8	16	844
21,3	30,6	303,6	17	794
22,5	32,4	321,5	18	750
23,8	34,2	339,3	19	711
25,0	36,0	357,2	20	675
26,3	37,8	375,1	21	643
27,5	39,6	392,9	22	614
28,8	41,4	410,8	23	587
30,0	43,2	428,6	24	563

Water hardness (°)				Softened water (l)
English degrees	French degrees	PPM	German degrees	
31,3	45,0	446,5	25	540
32,5	46,8	464,4	26	519
33,8	48,6	482,2	27	500
35,0	50,4	500,1	28	482
36,3	52,2	517,9	29	466
37,5	54,0	535,8	30	450
38,8	55,8	553,7	31	435
40,0	57,6	571,5	32	422
41,3	59,4	589,4	33	409
42,5	61,2	607,2	34	397
43,8	63,0	625,1	35	386
45,0	64,8	643,0	36	375
46,3	66,6	660,8	37	365
47,5	68,4	678,7	38	355
48,8	70,2	696,5	39	346
50,0	72,0	714,4	40	338

The presented volumes were calculated assuming the standard use in normal operating conditions of the device. External factors may result in certain differences (e.g. variable quality of the supplied water).

5.3 Technical data

Name	Water softening system WEH1350 System protection for dishwashers
Code-No.:	109889
Design:	<ul style="list-style-type: none"> ▪ digital display for adjustment of: water hardness, intervals, regeneration, time, language ▪ regeneration: optionally adjustable via flow rate or time interval
Materia:	Plastic
Connection capacity:	for 1 device
Performance level:	At 10° dH (total hardness): 1350 litres per day
Max. system pressure:	1.5- 6 bar
Water supply temperature:	5 °C – 40 °C
Water connection:	3/4"
Size:	W 255 x D 435 x H 480 mm
Weight:	11.6 kg

Subject to technical changes!

Additional accessories (not included in the delivery)



Connection kit WEH1350

- Plastic (PCW)
- Water supply temperature: 40 °C
- Hose 3/4": for water connection, length: 1.5 m
- Hose 1/2": for regeneration, length: 2 m
- Weight: 0.55 kg

Code-No.: 109884

5.4 Control function

Control valve

The control valve is delivered pre-set to the A-03 option (smart regeneration (Downflow)).

This setting performs the regeneration at 2 a.m., every 675 litres (0.675 m³) with the water hardness of 20 German degrees.

Depending on the water hardness, adjust the amount of water and time of regeneration.

Control system (soft water)

If the water is too soft, open the adjusting screw (**see fig. 2** on page 38). By turning a screwdriver counter clockwise increase the amount of flowing water and the water hardness degree.

Check the water hardness following this operation.

6. Installation and operation

6.1 Information for the installer

- Unpack the device and remove the packaging material. **Never** remove a type plate or warning signs from the device.
- Before the installation of water softening system, remove the lime scale deposits from all the devices working with it.
- Do not install the device near the sources of heat or open flame. Do not expose the device to direct sunlight.
- Protect the water softening system against damages.
- If the water pressure in the water supply system exceeds 6 bar, install a pressure reducing valve upstream of the water softener.
- Parts of the water softening system, which come into contact with water must be made of appropriate materials.
- All components must be installed according to the local regulations regarding installations for drinking water.
- Installation and maintenance work related to the water softening system may be performed only by the trained and authorised professional personnel.

6.2 Preparation to the installation.



CAUTION!

Before the installation check the technical data and during the installation observe the instructions regarding safety and installation included in this instruction manual.

Installation diagram

At the site of installation the user should prepare:

1. **Water supply system** with the 3/4 " connection and **shut-off valve**
2. **Drainage** (sewer system) at a max. height of 100 mm, DN 50 connection
3. **Electric socket** 230 V / 50 Hz, 16A
4. **Floor drainage** in the room
5. **Mechanical fine filter** installed upstream of the device.

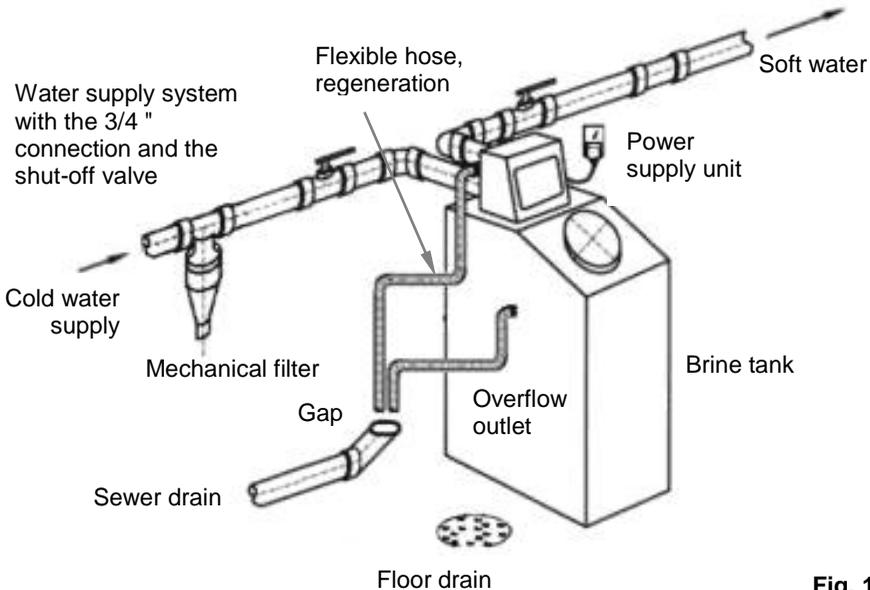


Fig. 1

6.3 Installation of the water softening system

- After preparation for installation, place the softener in the designated place,
- When connecting the water softening system follow the instructions on **figure 2** on page 38:
 - connect the water inlet (1) and outlet (2) to the device;
 - mount the flexible hose (1/2 ") of the regeneration cycle.
The drain hose cannot be rigid to avoid bending and congestions which may result in overfilling the brine tank and disrupt the regeneration process.
- Install a mechanical fine filter upstream of the water softening device in order to protect the device against damages caused by deposits in the water system.
- Fill in the brine tank of the water softening device with salt tablets (max. filling 100 mm from the upper edge of the brine tank). Then pour 5 litres of water.
- Check and tighten the connections if necessary.
- Connect the water softening system to the grounded electrical socket.
- The device is ready to work. The fine tuning of the device is performed by the user on site.
- The control valve is pre-set for smart generation (Downflow) A-03 (description on page 35).
- The control valve is set for the regeneration at 2 a.m., every 675 litres (0.675 m3) with the water hardness of 20 German degrees.
- Depending on the water hardness, allow the flow of specific amount of water before the regeneration starts (check the hardness of water, take into account the data included in table on page 32-33). Set the regeneration time as required.
- Program the control valve (see item 6.5).
- Open the water supply to the water softening system.
- The water pressure must be at least 2.0 bars and a maximum of 6 bars.
- Start the regeneration by pressing  button. You will hear the sound of the electric motor working, which means that the regeneration has started. During the regeneration process the system is vented and the brine tank is filled with water. After the regeneration process is finished, the device is ready to continue its operation. During the regeneration process the hard water is available.

- During programming do not change the sequence of stages of the regeneration process.
 1. backwash (5 minutes)
 2. regeneration agent (brine) rinse (50 minutes)
 3. regeneration agent (brine) refill (30 sec.)
 4. fast rinse (5 minutes)

These are proper settings for the production of the softened water. If they are changed the device will not work properly.

- System was pre-programmed to **A03 regeneration** mode – smart, logic regeneration. Based on the water consumption within the last 7 days, the system automatically selects the regeneration time within the set time limit.

Fig. 2. Description of the control valve

1. Cold water inlet (flexible hose 3/4")
2. Outlet of the treated (softened) water (flexible hose 3/4")
3. Drain fitting (compression fitting 1/2")
4. Brine tank connection 3/8"
5. Flow meter

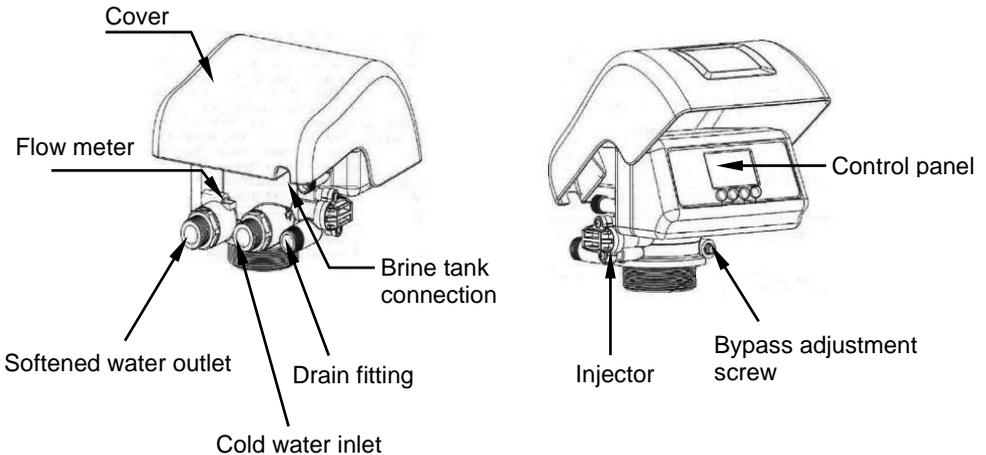


Fig. 2

6.4 Control panel, indicators, button functions

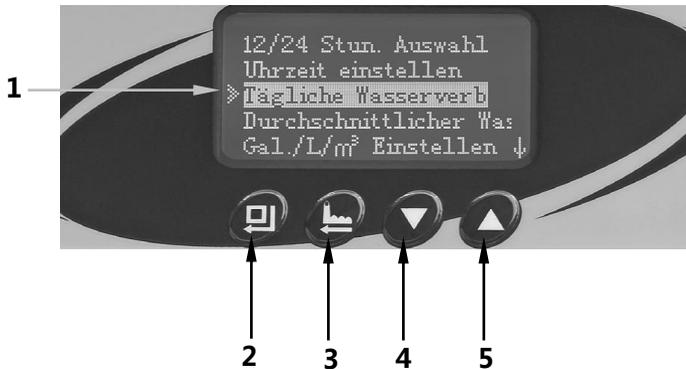


Fig. 3

- 1 Digital display**
- 2 Menu/approve** select button
- 3 Manual regeneration/return** button
- 4 Reduce** button
- 5 Increase** button

Button functions

-  - press this button to select the menu option and approve the selected or changed value
 - change is signaled with a short beep
-  - press this button to manually start the regeneration, in order to directly set the regeneration cycles select "InService" and press the button again in order to start the regeneration or go straight to the next phase of the regeneration and change the mode
-  - change/reduce the selected value or move down to the next item
-  - change/increase the selected value or move up to the next item

Button lock

If an indicator  is shown at the top on the left-hand side of the display, the device informs that the buttons are locked. In order to remove the lock, simultaneously press  and  buttons and hold for 5 seconds.

If the settings are not changed within 1 minute, the button lock is activated automatically.

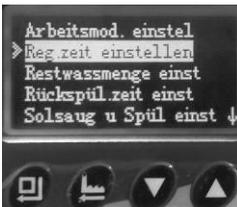
6.5 Settings

The device has been pre-set at the factory. German is the default language.

In order to change the settings, use the descriptions included in the table below or contact the technical support.

Press the  button to move to the programming mode

Setting option	Action	Displayed information
12/24h clock (required setting required)	Press the  button, the display will automatically show an option opcja 12 or 24 hours. Press  or  button to select the desired option. Approve the selected option with the  button after the beep.	
Setting the current time (required setting)	In order to select to the next option: „Time setting“, press the  button. To approve the selection of this option press the  button. Next, press  or  button to set the hour and approve with the  button after the beep. Set the minutes in the same way and approve the selected values with the  button after the beep.	

Setting option	Action	Displayed information
<p>Mode of operation setting</p> <p>Default setting: A-03 – smart regeneration</p>	<p>Press the  button to move to the option „Mode of operation setting “. Default setting: A-03 – smart regeneration.</p> <p>This means that the control valve „forecasts“, whether the volume of the treaded water is sufficient for the next day before activating the next cycle of regeneration. This „forecast “ is prepared based on the average water consumption within the last 7 days.</p> <p>If the amount of water turns out to be insufficient, the control valve will automatically start the regeneration process at another time (backwash).</p>	 <p>Arbeitsmod. einstel > Reg.zeit einstellen Restwassermenge einst Rückspül.zeit einst Solksaug u Spül einst ↓</p>  <p>Arbeitsmodus: (A-03) ○ DF Men st Zver ○ DF Men st soft ⊙ DF Int Men stsoft ○ UF Men st Zver ↓</p>
<p>Change of the hour of regeneration</p> <p>Default setting: 2 a.m.</p>	<p>To change the hour of regeneration, press the  button to move to the setting mode.</p> <p>Press  or  button to set the hour and approve with the  button.</p> <p>Set the minutes in the same way and approve the selected values with the  button</p>	 <p>Arbeitsmod. einstel > Reg.zeit einstellen Restwassermenge einst Rückspül.zeit einst Solksaug u Spül einst ↓</p>  <p>Reg.zeit einstellen: 02:00  OK  streichen ↓ ändern</p>

Setting option	Action	Displayed information
<p>Setting the remaining amount of water</p> <p>Default setting: 675 L (0.675 m³) for the water hardness of 20 German degrees</p>	<p>Press the  button to move to the advanced setting mode.</p> <p>Press the  button to select the option: "Setting the remaining amount of water:</p> <p>Press  or  button to select the desired value and approve with the  button.</p>	
<p>Setting time intervals between the regeneration processes</p> <p>Default setting: 30 days</p>	<p>Move to the advanced setting mode and with the  or  button select the option „Max. number of days between the regenerations” and approve with the  button.</p> <p>Press  or  button to set the desired value and approve with the  button.</p>	
<p>Language setting</p> <p>Default setting: German</p>	<p>To move to the "Language" option settings immediately after connecting the device to the power supply simultaneously press the  and  buttons and hold for 5 seconds.</p> <p>To change the language, press  or  button and select the desired language and then approve the selection with the  button.</p>	<p>List of languages will be displayed:</p> <ul style="list-style-type: none"> German English Spanish Chinese Russian French Italian

6.6 Service instructions

Regeneration agent (brine) refill:

1. Remove the cover from the brine tank.
2. Add salt tablets to the brine tank (max. 10 kg).
Tip: All the added tablets must be covered with water.
3. Close the cover.



CAUTION!

**Never use the device without the regeneration agent.
Do not use the regeneration agent of the unknown origin or in the powdered form.**

Maintenance

- Check the water softening system regularly.
- Check the connections for leakages. In case of leakages of connections or sealing, seal them or replace, if necessary.
- Check the hoses for bending, bent hoses should be replaced.
- Periodically, every 5 years at the maximum, replace the hoses, or more frequently if necessary.
- Do not use harsh chemicals, cleaning solutions or cleaning agents for cleaning.
- Every 3 years the qualified specialist should carry out the maintenance of control element and a technical inspection of the entire system.

7. Possible malfunctions

Problem	Cause	Solution
1. During the water treatment the water is leaking from the bypass valve of the water softening device.	Clogged sewer drain.	- Check the sewer drain hose. - Remember, that the sewer drain pipe needs to have free flow and clean the sewer drain.
	Leak between the brine valve (air control) and the control valve.	Check the connection between the brine valve (air control) and control valve.
	Clogged DLFC flow regulator.	Call for service
2. Water leaks through the upper cover of the brine tank, when the softener is active (not during the preparation of water).	Leakage in the resin tank.	Call for service
	Very slow flow of water through the control valve to the brine tank.	Call for service
	Leakage on connections (hoses not tight enough).	Check the connections for leakage (inlet and outlet).
3. Regeneration does not start automatically, but only after manual setting.	Insufficient water flow.	Program the regeneration based on time and not a flow value.
	Flow meter does not measure the flow of water	Call for service
	Disconnected cable of the flow meter	Call for service
	Control valve programming is incorrect.	Program the regeneration based on time and not a flow value.
4. Regeneration does not start automatically and when set manually.	No power supply.	Check electrical connection.
	Motor fault	Call for service
	Control panel fault.	Call for service

Problem	Cause	Solution
5. The water softening device delivers hard water but the amount of salt in the tank is decreasing.	Carbonate hardness measured.	Measure the total hardness.
	Not enough water in the brine tank.	Check settings: water refilling time.
	The water softening device incorrectly connected.	Check the connections of the device.
	Control valve does not take in the brine.	Call for service
	Water softening device in the start-up phase.	Wait until the start-up is finalized.
	No salt or insufficient amount of salt in the brine tank.	Prepare a salt solution in a bathtub (dissolve ca. 1.5 kg of salt in 6 litres of hot water). Pour the brine to the brine tank and manually activate the water treatment. If the water after the treatment is still hard, replace the resin.
	Sewer drain clogged.	Check the sewer drain hose.
	Clogged DLFC flow regulator – the device does not in the brine.	Call for service
	Loss of resin	Call for service
	Leak on the central pipe.	Call for service
The resin was used up due to the high consumption of water	Water softening device is too small for such a high water consumption.	
Performance of the water softening device is set incorrectly (volume of the treated water)	Check the total hardness and set the performance of water softening device again.	

Problem	Cause	Solution
<p>6. Water softening system delivers hard water. The amount of water is the same as the amount in the brine tank (the amount of brine is not decreasing).</p>	Dry salt	Grind the salt manually. Prepare a salt solution in a bathtub (dissolve ca. 1.5 kg of salt in 6 litres of hot water). Pour the brine to the brine tank and manually activate the water treatment..
	The water softening device incorrectly connected.	Check the connections of the device.
	Water softening device does not start water treatment.	See problem 3 & 4 „Regeneration does not start automatically“.
	Disconnected cable of the flow meter	Call for service
	Flow meter does not measure the flow of water	Call for service
	Control valve programming is incorrect.	See problem 11 „Control valve does not fill the brine tank with water“.
	Open bypass valve	Close the bypass valve.
	Lack of power supply during the water treatment	Check the power supply.
	Lack of water or not enough water during the treatment.	Check the water pressure.
<p>7. Water softening system delivers the water which is not fully softened.</p>	Insufficient salt in the brine tank.	Fill in the salt.
	Water bypass valve is open.	Close the bypass valve.
	See problem 5 & 6 „Water softening system delivers hard water“.	See problem 5 & 6 „Water softening system delivers hard water“.

Problem	Cause	Solution
8. The device is using too much salt.	Too much water in the brine tank.	Reduce the time of the brine tank refilling with water, see problem 9 „Too much water in the brine tank”
	Too frequent water treatment.	Check the water hardness degree and the set flow volume.
	Incorrect programming.	Choose appropriate parameters for the time of refilling with water: brine refill.
9. Too much water in the brine tank. Water level in the brine tank is at the overflow outlet.	The device does not take in the brine.	See problem 10 „The device does not take in the brine from the brine tank”.
	Clogged sewer drain.	Check the sewer drain hose. Remember, that the sewer drain pipe needs to have free flow, clean if necessary.
	Filling with water takes too long.	Choose appropriate parameters for the time of refilling with water: brine refill.
	Power break during refilling of the brine tank with water.	Check the power supply.
	The water softening device incorrectly connected.	Check the connections of the device.
	Resin tank leakage.	Check the resin tank for leakage.
	Control valve very slowly fills the brine tank with water.	Call for service
	Clogged DLFC flow regulator	Call for service
	Water returns from the sewer drainage system and through the overflow outlet (at the side of the water softening device) flows to the brine tank.	Hoses tightly connected with the sewer drain. It is not allowed.
	Leaking hose connections.	Check connections.

Problem	Cause	Solution
10. The device does not take in the brine from the brine tank.	Clogged or damaged injection valve.	Call for service
	Leak between the brine valve (air control) and the control valve.	Call for service
	Insufficient pressure in the water supply system.	
	Blocked brine hose or valve (air control) deliver the brine to the motor.	Check the hose.
	Damaged ball in the brine valve (air control).	Call for service
	Clogged sewer drain.	Check the sewer drain hose. Remember, that the sewer drain pipe needs to have free flow and clean it if necessary
	Insufficient amount of water in the brine tank.	See problem 11 „Control valve does not refill the brine tank with water”.
11. „Control valve does not refill the brine tank with water”.	The time of brine tank refilling "Brine REFIL" is set incorrectly.	Program a correct time of refilling the tank "Brine REFIL" - 30 seconds.
12. Loss of water pressure.	Iron deposition in the softener.	Clean the regulating valve and the resin. Increase the frequency of regeneration and / or backwash time
	Calcium or congestion in the water supply system.	Check whether the water inlet was not blocked upstream of the device.
	Valve inlet has been contaminated during the installation work.	Remove the contamination
	Contaminated filter upstream of the device.	Remove or clean the filter.

Problem	Cause	Solution
13. Loss of water pressure.	Installation supply pipe or supply hose / outlet of the water softening system has insufficient diameter.	Use the installation pipe or hose with higher diameter.
	Air in the system.	Check the system to make sure that there is a brine in the brine tank.
14. Loss of resin	Supplied water has too high temperature.	Call for service
	Upper basket, lower basket or distributor damaged.	Call for service
15. Permanent outflow to the sewer drainage system from the regulating valve.	Foreign particles in the regulating valve.	Call for service
	Lack of electricity during the water treatment.	Check the power supply.
	Break in the control valve.	Call for service
	Motor fault.	Call for service
	Power supply unit damaged.	Replace the power supply unit
16. Water treatment is performed at the incorrect time.	Incorrectly set hour for water treatment.	Launch programming and set the correct hour for the water treatment (default setting: 2 a.m.).
	Incorrectly set time.	Set the correct time.
	Lack of power supply for more than 3 days.	Set the correct time.
17. Interrupted or uneven brine supply.	Too low or unstable water pressure.	Increase the water pressure.
	Air in the resin tank.	Call for service
	Clogged or damaged injection valve.	Replace or clean the injection valve.

Problem	Cause	Solution
18. Water tastes salty.	Too short time of brine treatment or too fast rinsing.	Change the programming, set the correct time of brine treatment and rinse (see page 31).
	Air inside the device. The air may get there during the suction up process.	Call for service
	Outflow of water during the water treatment. The brine enters the resin tank but is not rinsed out.	Press and hold the regeneration button to manually start the treatment. This should enable correct treatment.
	Clogged sewer drain or too narrow sewer drain hose	Clean the sewer drain and the injection valve feed.
	Decrease of the water pressure or insufficient amount of water during the treatment.	Press and hold the regeneration button to manually start the treatment. This will start the regeneration process again.
19. After treatment, water flows out of the sewer drain or brine system.	Foreign particles in the valve which prevent closing of the valve.	Clean the valve, remove foreign particles from the valve.
	Water pressure too high, the valve cannot be set in the appropriate position.	Reduce the water pressure.

Problem	Cause	Solution
20. Performance of the water softening device decreases after a few months or years.	Wrong execution of water treatment.	Check the water treatment cycles. Correct the water treatment cycles and replace the resin.
	Frequent lack of salt or insufficient amount of salt in the brine tank.	Replace the resin and make sure that the amount of salt is never below the water level.
	Contaminated resin	Replace the resin.
	Incorrectly set performance of the water softening device.	Check the water hardness and the installation of the water softening device, program the system again (volume tables, page 32-33). If there is no improvement, replace the resin.
21. Regulating valve	Foreign particles in the drive wheel.	Call for service
	Water treatment times were set to zero.	Check the program settings and restart the system.
	Regulating valve damaged	Call for service
22. Lack of indications on the display.	Lack of power supply in the socket.	Repair the faulty socket.
	The power supply unit is not connected to the electric socket or the cable is not connected to the power supply input of the control valve.	Connect the power supply unit to the socket and the cable to the device.
	Wrong voltage of the power supply.	Ensure appropriate voltage of the power supply
	Power supply unit damaged.	Replace the power supply.
	Display screen failure.	Call for service

8. Disposal

Devices which reached the end of their useful life should be disposed of according to national regulations. Contact a local waste disposal management unit for this purpose.

Disassemble the device for the final disposal following the installation sequence in reverse order.



CAUTION!



For the disposal of the device please consider and act according to the national and local rules and regulations.

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