



Instruction manual



Automatic water softener 5 l R 08

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1. DECLARATION OF CONFORMITY

Decree of the Ministry of Health of the Czech Republic no. 38/2001 Coll. of 19 January 2001 Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation of the European Parliament and Council Regulation (EC) no. 1935/2004 of 27 October 2004

The products meet the requirements of §26 of Act No.258/2000 as amended. The products meet the requirements of RoHS Directive 2015/863/EU, 10/2011, 517/2014, 2015/1094, 2015/1095.

Attention, the manufacturer gives up any responsibility in case of direct and indirect damage that is related to poor installation, incorrect intervention or adjustments, insufficient maintenance, incorrect use and which are eventually caused by other causes than the points referred to in the conditions of sale. This appliance is intended only for professional use and must be operated by qualified persons. Parts that have been secured by the manufacturer or authorized worker after the setting rebuild.

2. TECHNICAL DATA

The label with technical data is located on the side or back panel of the device. Please read the wiring diagram and all the following information in the attached manual before installation.

Net Width [mm]	Net Depth [mm]	Net Height [mm]	Net Weight [kg]	Power electric [kW]	Loading
233	540	540	9.00	0.005	230 V / 1N - 50 Hz

3. LOCATION ELECTRIC

For the correct operation and placement of the appliance, it is necessary to observe the following all prescribed standards for the given market. Unpack the device and check that the device has not been damaged during transport. Place the device on a horizontal surface (maximum unevenness up to 2°). Small unevenness can be leveled with adjustable feet. If the device will be placed in such a way that it will be in contact with the walls of the furniture, these must withstand a temperature of up to 60°C. Installation, adjustment, commissioning must be performed by a qualified person who is authorized to perform such operations, according to applicable standards. The device can be installed separately or in series with devices of our production. A minimum distance of 10 cm from flammable materials must be observed. In this case, it is necessary to secure the appropriate modifications to ensure the thermal insulation of the combustible parts. The appliance must only be installed on a non-flammable surface or against a non-flammable wall. **Parts of the appliance provided by the manufacturer. or his representative, the worker performing the installation may not rebuild the product.**

4. SAFETY MEASURES FOR FIRE PROTECTION

- the appliance may only be operated by adults
- the appliance may be used safely in accordance with applicable market standards:

Fire protection in spaces with special risk or danger

Protection against the effects of heat

- the appliance must be placed so that it stands or hangs firmly on a non-combustible surface

Objects of flammable substances must not be placed on the appliance at a distance less than a safe distance from it (the smallest distance between the appliance and flammable substances is 10 cm).

Table: degree of flammability of building materials included in st. flammability of substances and products

Degree of flammability	Building materials
A - non-flammable	granite, sandstone, concrete, brick, ceramic tiles, plaster
B - Not easily flammable	Acumin, Heraclitus, Lihnos, Itaver
C1 - highly flammable	wood, hardwood, plywood, hard paper, umakart
C2 - moderately flammable	chipboards, solodur, cork boards, rubber, flooring
C3 - Highly flammable	wood fiber boards, polystyrene, polyurethane, PVC

- information on the degree of flammability of common building materials is given in the table above. Appliances must be installed in a safe manner. During installation, the relevant design, safety and hygiene regulations must also be respected:
- fire safety of local appliances and heat sources
- fire protection in areas with special risk or danger
- protection against the effects of heat

5. INSTALLATION

Important: The manufacturer does not provide any warranty for defects arising as a result of incorrect use, failure to follow the instructions contained in the attached user manual and mishandling of appliances. Installation, modification and repair of appliances for large kitchens, as well as their dismantling due to possible damage to the gas supply, can only be carried out on the basis of a maintenance contract, this contract can be concluded with an authorized dealer, while technical regulations and standards and regulations must be observed regarding installation, electrical supply, gas connection and work safety. Technical instructions for installation and adjustment, for use by specialized technicians ONLY. The instructions that follow refer to a technician qualified for installation to carry out all operations in the most correct manner and according to the applicable standards. Any activity related to regulation etc. must only be performed with the device disconnected from the network. If it is necessary to keep the appliance under voltage, the utmost care must be taken. The type of appliance for extraction is declared on the nameplate, it is an A1 appliance.

6. CONNECTING THE ELECTRICAL CABLE TO THE NETWORK

Installation of the electrical supply - this supply must be separately secured. Ato with the corresponding circuit breaker of rated current depending on the power input of the installed device. Check the power consumption of the device on the production label on the back panel (or side) of the device. The connected ground wire must be longer than the other wires. Connect the device directly to the network, it is necessary to insert a switch between the device and the device with a minimum distance of 3 mm between the individual contacts, which corresponds to the applicable standards and load. The earth supply (yellow-green) must not be interrupted by this switch. Connect the device to the mains if the socket has adequate protection. In any case, the supply cable must be located so that it does not reach a temperature of 50 degrees higher than the environment at any point. Before the appliance is connected to the network, it is necessary to first make sure that:

- the supply circuit breaker and the internal distribution can withstand the current load of the appliance (see matrix label)
- the distribution board is equipped with effective grounding according to the standards of the relevant market and the conditions given by law
- the socket or switch in the supply is easily accessible from the appliance
- the electrical supply to the device must be made of oil-resistant material

We disclaim any responsibility in the event that these standards are not respected and in the event of a violation of the above principles. Before first use, you must clean the device, see chapter "cleaning and maintenance". The appliance must be grounded using a screw with a grounding mark.

- Do not insert the plug of the power supply into the electrical outlet. sockets and do not pull out the zel. sockets with wet hands and pulling on the power cord!
- Do not use extension cords or multiple sockets.
- **The mains connection point must have a maximum of the following impedance: $Z_{MAX} = 0.042 + j 0.026 \Omega$ for the phase conductors and $0.028 + j 0.017 \Omega$ for the neutral conductor.**

Model	Con- sumption salt	Flow rate	Maximum tempera- ture	Work pressure	Quantity modified water (hardness 10 o)	Time regenera- tion	Connection average	Tank for salt	Dimension (cm)
R - 08	1 kg	0-30 l/min	45 °C	1.5 – 6.0 bar	1500 litres	180 minutes	3/4"	10 kg	22.5 x 43.5 x 55 h

Model	Voltage	Performance	Water tempe- rature
R - 08	230V / 50Hz	8 VA	1 - 30 °C

The manufacturer does not provide any warranty for defects resulting from improper use, failure to follow the instructions contained in the User Manual, or mishandling of the appliances.

Installation:

The installation, modification and repair of appliances for commercial kitchens, as well as their dismantling, may only be carried out on the basis of a maintenance contract. This contract may be concluded with an authorised dealer, whereby technical regulations and standards and regulations relating to installation, electrical connections, gas connections and work safety must be observed.

Ventilation of the room in which the appliance is installed must comply with applicable standards and regulations.

The appliance may be installed separately or in series with other appliances. A minimum distance of 10 cm from the appliance must be maintained to prevent possible contact with walls made of combustible material.

It is also essential that appliances are installed safely.

Notification for connection

The user must have the appropriate water, electricity and waste connections ready. The installer must not modify or alter the appliance. Place the softener on a level surface in a vertical position. The device must not be placed in an environment where the temperature exceeds 40°C or is lower than 4°C, or in an acidic or corrosive environment.

Connecting the power cable to the mains

Installation of electrical wiring - this wiring must be secured separately with a circuit breaker of the appropriate rated current depending on the power consumption of the installed device. Check the power consumption of the device on the manufacturer's label on the side of the device.

In any case, the power cable must be positioned so that it does not reach a temperature 50 °C higher than the average temperature at any point. Before connecting the appliance to the mains, ensure that:

- The main circuit breaker and internal wiring can handle the current load of the appliance (see matrix label).
- The distribution system is equipped with effective earthing in accordance with standards (ČSN) and conditions stipulated by law.
- The socket or switch in the power supply is easily accessible from the appliance.

We accept no responsibility in the event that these standards are not respected and in the event of a breach of the above principles.

Before using the appliance for the first time, you must clean it; see the section entitled "Cleaning and maintenance". The appliance must be earthed using the screw marked "earth".

Water connection

The installation must be carried out by a qualified person who is authorised to perform such work in accordance with the applicable standards and rules of this manual. An easily closable tap must be installed between the water supply and the softener. Hoses with a minimum internal diameter of 8 mm must be used for connection.

We recommend installing a coarse dirt filter upstream of the softener to prevent sand and rust from entering the device's mechanics, see Fig. 1.

Figure 1 shows a diagram of the water connection with three shut-off taps. The waste water outlet hose (from which waste water flows during regeneration) should be placed in a drain that is lower than the softener itself. If this condition cannot be met, care must be taken to ensure that the drain is no higher than 1.8 metres from the softener and no further than 3 metres. The minimum water pressure must be 2.0 bar.

The waste water drain hose must not be pinched or bent; water must be able to flow freely, otherwise the salt water will not drain sufficiently from the container. This drain hose must never be connected directly to the siphon or drain – there is a risk of waste water returning to the softener. Attach the outlet elbow and fit the hose to it, which you then lead to the drain.

The hose is connected to a screw-on connecting fitting with a 3/4" internal thread.

Security alert

1. Never touch the device with wet or damp hands or feet.
2. Do not use the machine when barefoot.
3. Do not allow children to operate the machine.
4. Before handling the appliance (cleaning, repairs), switch off the softener using the main switch and unplug the cable from the socket.

In the event of a fault or malfunction, switch off the appliance and close the BYPASS water supply taps. Call the service organisation. In the event of any unauthorised intervention, we waive all warranties.

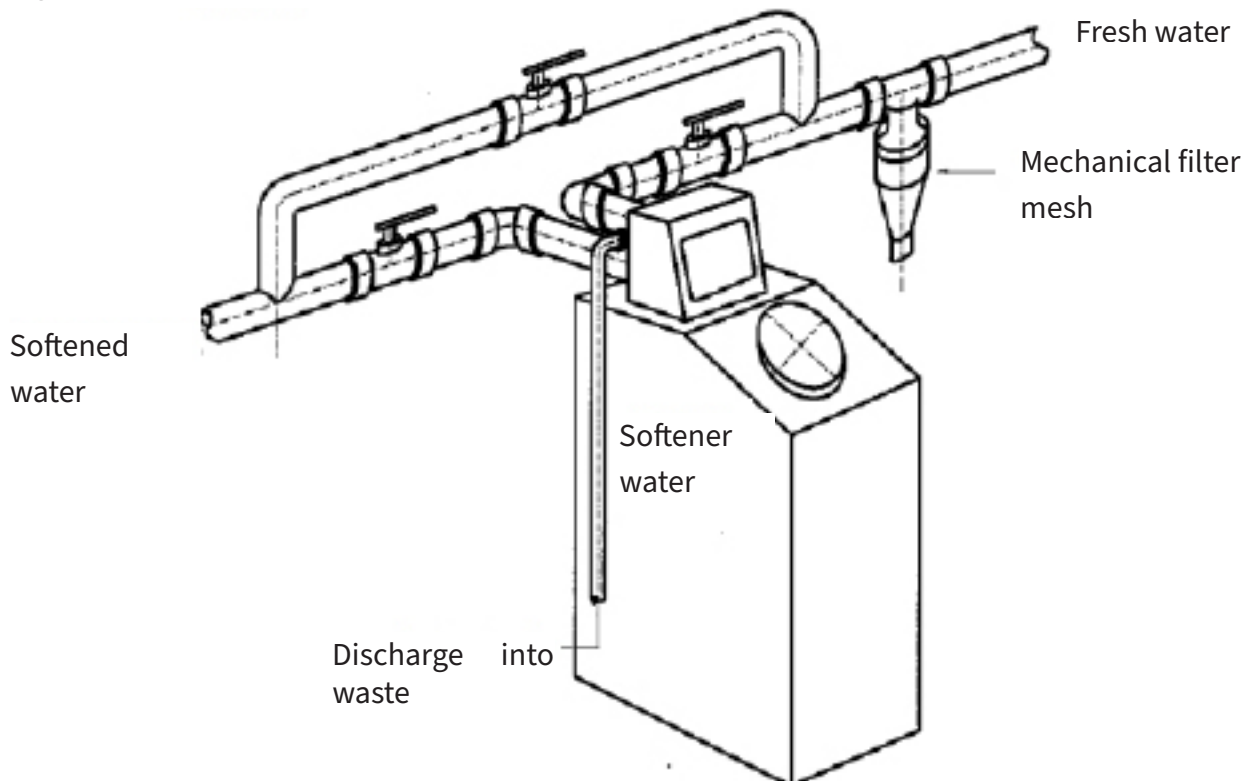
Connected softener (for service technician)

The regulator is factory programmed to activate regeneration at 2:00 a.m. every 6 days.

1. Connect the water inlet (left) and water outlet (right) using flexible hoses with 3/4" threaded ends. Check the correctness of the outlet according to the arrows on the side of the fitting.
2. Connect the waste hose to the waste water outlet on the softener fitting. Connect the other end of the hose freely to the waste pipe or drain. Ensure that the hose is not sharply bent or kinked.
3. Slowly open the water inlet valve.

4. Pour approximately 10 kg of tableted salt into the tank.
5. Vent the system by turning the knob (7) clockwise to the BACK WASH position. After a few minutes, the softener will be vented. By turning the knob to the (IN SERV) position, the system will return to water softening mode.
6. Pour approximately 5 litres of water into the salt tank.
7. Connect the appliance to a 230V power supply and set the current time.

Fig. 1



7. INSTRUCTIONS FOR USE

Programming (for service technicians)

The machine was programmed to regenerate at 2:00 a.m. every 6 days.

After connecting to a 230 V power supply, the current time must be set.

Set current time:

Press the red wheel (1) and simultaneously turn the cogwheel (2) so that the current time (like a clock*) is displayed in the window (3), then release the red button.

* "P" afternoon hours (from noon to midnight), e.g. 9 P - 21:00

„A,, morning hours (from midnight to noon), e.g. 9 A - 9:00

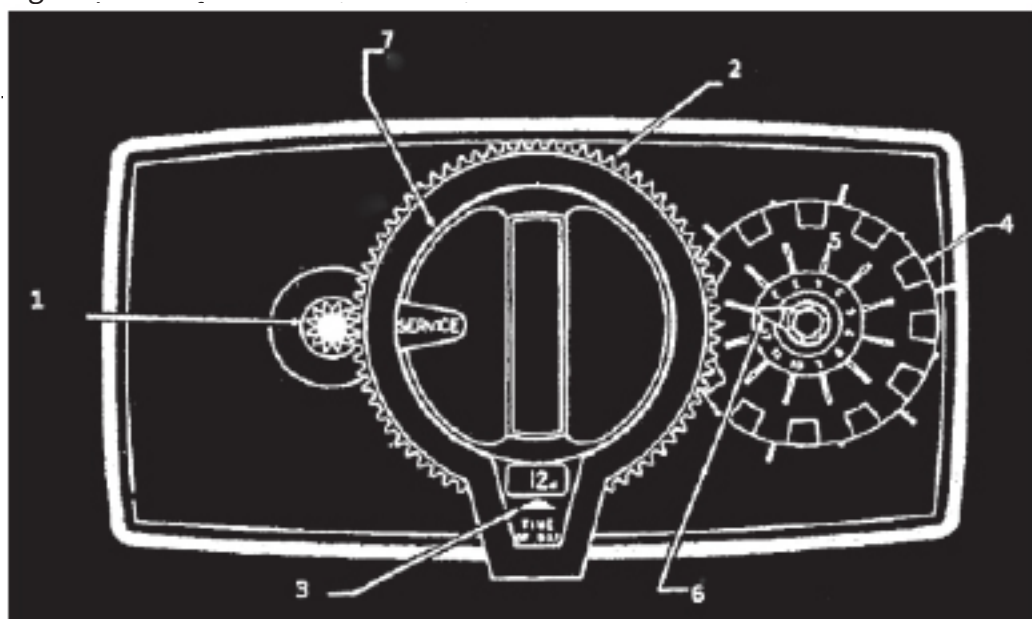
The valve is factory set to start regeneration at 2:00 a.m. If you wish to change the regeneration time, move the time indicator (2) to the left or right of the current time.

Regeneration frequency setting - Days on which regeneration should be set are marked on a 12-day rotary disc (4) with inserted sliding pins (5). Each pin represents one day.

Insert all pins (5) into the centre of the rotating disc (4) and pull out the pins on the outside of those pins (days) on which we want regeneration to start. The red arrow (6) indicates today.

- all wheels are moved outwards - daily regeneration
- every other pin is moved outwards - regeneration every two days
- every third wheel is moved outwards - regeneration every three days
- Each six-week cycle is shifted outwards - regeneration every six days.
- etc.

Fig. 2



irs. Once regeneration is com-

Principle of operation:

Softening process - IN SERV

Hard water contains, among other things, calcium (Ca), magnesium (Mg) and iron (Fe) ions. The softening process involves removing cations from these salts using ion exchange resins. When exhausted, it undergoes a regeneration process in a salt solution.

The regeneration process - REGEN

Regeneration takes place with the aid of tableted salt and expels particles of lime and magnesium. The regeneration cycle consists of the following steps:

- counter-current rinsing - BACK WASH
- rinsing with saline solution - BRINE + RINSE
- rapid rinse - RAPID RINSE
- stabilisation tank - SETTLER RINSE
- Refill water into the brine tank - BRINE REFILL

The minimum amount of salt in the tank for proper regeneration is one-third of the tank. If there is not enough salt in the tank:

- remove the tank cap
- Pour tableted salt into the tank to 2/3 of the height of the reservoir and close the lid.

Use salt specifically designed for water softeners.

Do not use salt of unknown origin or in powder form.

For proper functioning of the device, we recommend using tableted salt from RM GASTRO.

Cleaning and maintenance:

Disconnect the power supply before reading.

Wipe the appliance with a damp cloth and degrease it with washing-up liquid.

The device should not be read:

- pressurised water.
- metal cards
- using aggressive, corrosive and corrosive substances or chlorine
- with agents containing abrasive particles

Service interruption

If the appliance is not going to be used for a long period of time, it must be disconnected from the mains and the water supply shut off.

Service

if the softener does not produce softened water:

1. Check that the salt in the reservoir is at least 1/3 of the height of the container.
2. Check that the softener is plugged into an electrical socket.
3. Check that the water inlet valve is open.
4. Check that the regeneration programme is set correctly.
5. Contact the service organisation.

8. CLEANING AND MAINTENANCE

It is recommended to have the device checked with a specialist service at least once a year. All the interventions in the device can only be carried out by a qualified person who has the authorization to do so.

CAUTION! The device must not be cleaned with direct or pressure water. Clean the equipment daily. Daily maintenance extends the life and efficiency of the equipment. Always turn off the main inlet to the device. Wash the stainless steel parts with a damp cloth with a detergent without coarse particles and wipe dry. Do not use abrasive or corrosive cleaning agents. Attention! Before using the device, it is necessary to remove the protective foil from the entire surface, and then wash it well with water with detergent, and then wipe it with a damp cloth. **ALERT!** The warranty does not apply to all consumables subject to normal wear (rubber seals, bulbs, glass and plastic parts, etc.). The warranty also does not apply to the device if the installation is not carried out in accordance with the instructions - an authorized worker according to the corresponding standards and if the equipment was unprofessionally manipulated (interventions in the internal equipment, etc.) or were operated by unhappy staff and contrary to the instructions for use, further The warranty does not apply to damage by natural effects or other external intervention. **Required service organization 2 times a year. After the lifetime, the shipping packaging and equipment are submitted to the collection, according to the regulations on waste management and hazardous waste.**