REDFOX®

Instruction manual



Manual water softener double tap 20 l LT 20

2026-10-07

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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 relate to poor installation, incorrect intervention or adjustments, insufficient maintenance, incorrect by using and which are eventually caused by other causes that the points referred to in the conditions sales. This appliance is intended only for professional use and must be operated by qualified by 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]	Gross depth [mm]	Gross Height [mm]
190	915	915	16.00	200	950

Number of cavities	Resin capacity	Gross Volume [m3]	Net Volume [m3]	Gross Weight [kg]	Gross Width [mm]
2	14.00	0.038	0.044	17.00	200

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

Degree of flammability	Building materials
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: ZMAX = 0.042 + j**

0.026 Ω for the phase conductors and 0.028 + j 0.017 Ω for the neutral conductor.

Model	Dimension A (cm)	Dimension B (cm)	Diameter (cm)	Volume of resin (l)	Amount of regenera-tion salt (kg)	Volume (l)	Weight (kg)
LT-8	41,5	23,5	19	5,8	1	8	8
LT-12	51,5	33,5	19	9	1,5	12	10
LT-16	61,5	43,5	19	12	2	16	12
LT-20	91,5	73,5	19	15	3	20	14
LTP-8	40	23,5	19	5,6	1	8	8
LTP-12	50	33,5	19	8,4	1,5	12	10
LTP-16	60	43,5	19	11,2	2	16	12,5
LTP-20	90	73,5	19	14	2,5	20	19

Amount of softened water depending on water hardness (French degrees)

Model	20o	30o	40o	60o	80o
LT-8	1 200 l	1 000 l	900 l	700 l	500 l
LT-12	1 900 l	1 500 l	1 350 l	1 050 l	750 l
LT-16	2 500 l	2 100 l	1 800 l	1 400 l	1 000 l
LT-20	3 500 l	3 000 l	2 600 l	2 100 l	1 500 l

Conversion of degrees of hardness of water 1o d (German) = 1.8 o f (French) = 1.25o e

INSTALLATION

Place the softener on a flat surface in a vertical position. The device must not be placed in an environment where the temperature is below 4 °C, nor in an acidic or corrosive environment. Do not empty the resin in the softener container, without this resin the device is not functional.

The softener is connected to the water supply system using pressure hoses with 3/4" fittings. A freely accessible shut-off valve must be fitted on the wall outlet. If for technological reasons the distance between the device and the water shut-off is large, we recommend fitting a water stop valve to the device. For easy operation during regeneration, it is advisable to insert the flush outlet hose directly into the drain. If this condition cannot be met, care must be taken to ensure that the waste is no higher than 1 m from the floor and no further than 3 m from the softener.

Never connect the drain hose to the waste permanently, there is a risk of sewage backflow into the softener. This appliance is designed for softening drinking water and can therefore only be connected to drinking water with a maximum temperature of 30°C, no other use is permitted.

The maximum water supply pressure to the softener is 8 bar (0.8 MPa), the minimum water supply pressure is 1 bar (0.1 MPa)

Procedure for commissioning the softener

In order for the softener (resin) cartridge to perform its function, the following steps must be taken:

- Fill the softener with potable water at ambient temperature and let it sit for at least two hours.

- It must then be flushed (similarly to regeneration) for at least 30 minutes until the outflow water is perfectly clean. For the LT type, set the taps according to Fig. 1 to position C and for the LTP type, set the tap according to Fig. 2 to position 4.

7. INSTRUCTIONS FOR USE

Regeneration of the softener is carried out according to the hardness and quantity of the treated water (see

table)

but at least once a month.

Regeneration of the cartridge is carried out using NaCl (common coarse table salt or tablet salt intended for regeneration of softeners) in the amount according to the table.

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LT softener regeneration procedure (Figure 1):

- Place a container under the hose (E,F) if it is not led directly into the waste.
- Turn the lever (C and D) of the upper and lower taps from left to right 180° to close the water supply and relieve the pressure in the vessel (Fig. 1a).
- Open the top lid and pour in the salt according to the technical data table.
- Close the lid (rinse and wipe the rubber seal before closing) and turn the top tap lever back from right to left (Fig. 1b), this will release the water and salt water will start to flow out of the bottom tube.
- Let the water flow until it starts to flow non-salty water about 30-40 l.
- Then turn the lever (D) of the bottom tap back from right to left (Fig. 1c).
- This completes the regeneration, leave the taps in position A, see Fig. 1.

Control of taps during regeneration (fig. 1)

POSITION OPERATION
BOTH LEVERS TURNED
TO THE LEFT



A) Water supply
B) Water runoff
C) Upper tap position open
D) Lower tap position open
E) Upper hose
F) Lower hose

LOCATION CLOSED
AND PRESSURE RELIEF BOTH
LEVERS TURNED TO THE RIGHT



C) Upper tap position closed
- pressure relief
D) Lower tap position closed
- pressure relief

REGENERATIVE POSITION
UPPER LEVER LEFT LOWER
RIGHT LEVER



C) Upper tap position open
- regeneration and desalination
D) Lower tap position closed
- regeneration and desalination

LTP softener regeneration procedure (Figure 2):

- Move the rotary pushbutton (C) to position 2, see Fig. 2b. Wait until the water pressure in the container is released.
- Unscrew the softener lid with the screw and pour the table salt into the container, according to the technical data table on page 3.
- Clean the lid and softener of any dirt and salt residues.
- Screw the softener cap back on.
- Move the rotary pushbutton (C) to position 3, see Fig. 2c.
- Let the salt water flow out through the hose (D) for approx. 40 minutes
- Put the control knob (C) in position 4 and wait approx. 30 seconds, during which time the softener will be completely rinsed, then return the control knob (E) to position 1 (working position).

BY-PASS tap control during regeneration (fig. 2)

BOX 1
OPERATIONS



BOX 2
SUBSCRIPTION AND
THE SPRINKLING OF SALT



BOX 3
REGENERATION



BOX 4
RINSE



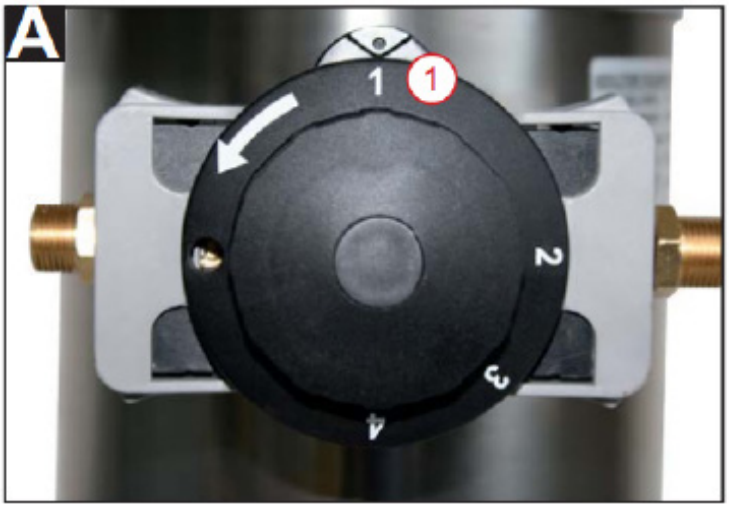
A) Water supply
B) Water runoff
C) By-pass valve - control
D) Waste hose
1) Position set on the valve

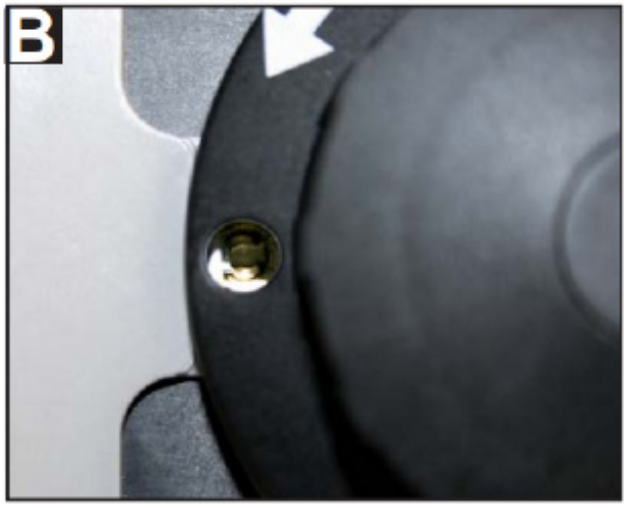
Water flows out of the waste hose when positions 2, 3 and 4 are set.

If the softener is not regenerated correctly and at the right intervals, it loses its practical significance. We recommend that you keep written records of regeneration dates or arrange a contract with your supplier for regular maintenance of the equipment.

MIXER system for LTP type

- The MIXER system allows you to regulate the intensity of water softening - it is a mixing of softened and untreated hard water.
- Turn the control knob (A) to position "1" to select the OPERATION mode.
- The intensity of softening is controlled by loosening or tightening the control screw - the more the screw is opened, the more untreated water is added.





Cleaning

ATTENTION! The device must not be cleaned with direct or pressure water.

Clean the equipment daily. Daily maintenance prolongs the life and efficiency of the equipment. Wash the stainless steel parts with a damp cloth and detergent without coarse particles, then rinse everything with clean water and wipe dry. Do not use abrasive or corrosive cleaning agents.

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.**