

# EKOSOFT

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## Proportional self-disinfecting digital volumetric water softeners



**DESCRIPTION.** Automatic water softeners EKOSOFT series (timer with backlit display) digital reading self-disinfecting with volume + time regeneration. For potable use. The new electronic phase control system and the proportional calculation\* results in a reduction in salt consumption. They are equipped with hardness mixer integrated in the valve body. A water softener is a device capable of softening water, namely of reducing its hardness, a term indicating the concentration of calcium and magnesium salts which precipitate and form limestone scaling on surfaces.

Softening is a process that partially removes the solids dissolved in a solvent, in order to reduce the hardness of the solution.

The appliance works based on the principle of the ionic exchange by means of synthetic foodstuff resins by sodium cycle. These resins have the capacity of absorbing excess calcium and magnesium salts in the water. For proper operation of appliance, it must be fed with perfectly clear iron-free cold water.

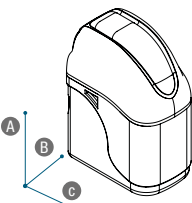
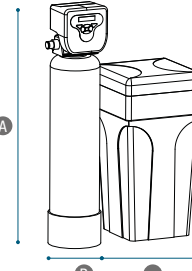
DIAGRAM	CODE	MODEL WITH CAB	FLOW RATE ( $\Delta P=0.2$ BAR)	CYCLIC MAX	CONNECTIONS	DIMENSIONS in mm		
			L/hour	m <sup>3</sup> x°Fr		A	B	C
	ESOFTM09	EKOSOFT M10	800-1000	48	1" M	680	320	500
	ESOFTM15	EKOSOFT M15	1500-2000	78	1" M	680	320	500
	ESOFTM17	EKOSOFT M20	2000-2500	102	1" M	1140	320	500
	ESOFTM26	EKOSOFT M30	2200-2500	156	1" M	1140	320	500

DIAGRAM	CODE	MODEL WITH TWO BODIES	FLOW RATE ( $\Delta P=0.2$ BAR)	CYCLIC MAX	CONNECTIONS	DIMENSIONS in mm		
			L/hour	m <sup>3</sup> x°Fr		A	B	C
	ESOFT017	EKOSOFT 20	2000-2500	102	1" M	1075	180	350
	ESOFT026	EKOSOFT 30	2200-2500	156	1" M	1075	235	380
	ESOFT040	EKOSOFT 40	2200-2500	210	1" M	1075	255	350
	ESOFT060	EKOSOFT 60	3000-3500	300	1" M	1560	255	565
	ESOFT080	EKOSOFT 80	4000-4500	480	1" M	1590	340	565
ESOFT100	EKOSOFT 100	4200-4800	600	1" M	1535	405	565	

DATA SHEET



fig. A



fig. B

- + VOLUMETRIC DIGITAL (fig. A)
- + PROPORTIONAL
- + VOLUME + TIME OPERATION OPTION INCLUDED
- + HARDNESS MIXING INCLUDED (fig. B)
- + ANTI-FLOODING FLOAT INCLUDED
- + DRAIN CONNECTION KIT INCLUDED
- + RESIN DISINFECTANT KIT INCLUDED
- + START-UP BY AUTHORISED ASSISTANCE CENTRE INCLUDED

**PROGRAMMER FEATURES**

- Large green backlit LCD display
- Simple and intuitive programming
- 48-hour autonomy in case of power failure
- Alternated view of time, remaining softened water volume or days remaining until next regeneration
- Accessibility to all adjustments from the front
- Separately adjustable cycles
- Choice between various types of operation: immediate, or delayed, volumetric regeneration, delayed or weekly volume + timed regeneration, delayed or weekly timed regeneration, manual regeneration
- Dual backwash capacity (possibility of programming up to 6 regeneration cycles with independent adjustment of times)
- Service and self-diagnosis indicators
- Calculation of softened water reserve proportional to consumption
- The set programming remains stored and will not be lost in case of power failures
- Quick and easy configuration of capacity, time and day of regeneration.

**OPERATION:** Since it is an advanced digital appliance, it allows to set several parameters so as to achieve an excellent functionality/saving ratio.

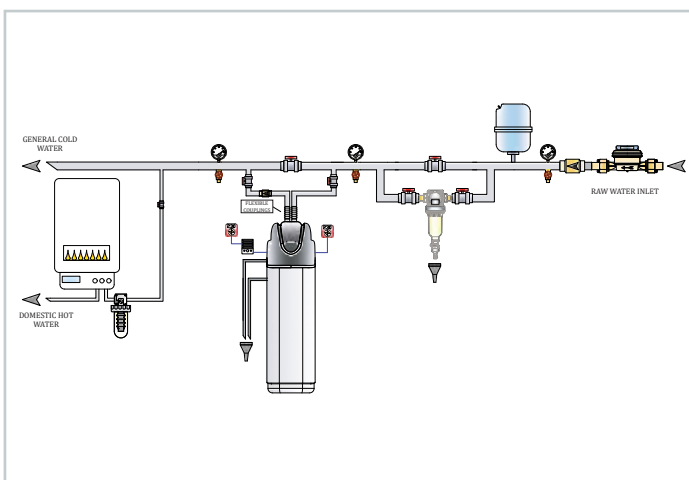
When the amount of treated water exceeds the set value, or nonetheless every four days (even with no consumption, unless the option was disabled), the timer prepares the appliance for regeneration which will take place at the scheduled time. This avoids unnecessary regenerations, saving on salt and water. Ideal in applications with inconstant consumption. The litre counter controls the valve even at extremely low flow rates (22 L/h) and in the absence of power.

The valve is equipped with a built-in mixer/bypass device which controls residual hardness by mixing the soft water coming out of the plant with hard incoming water.

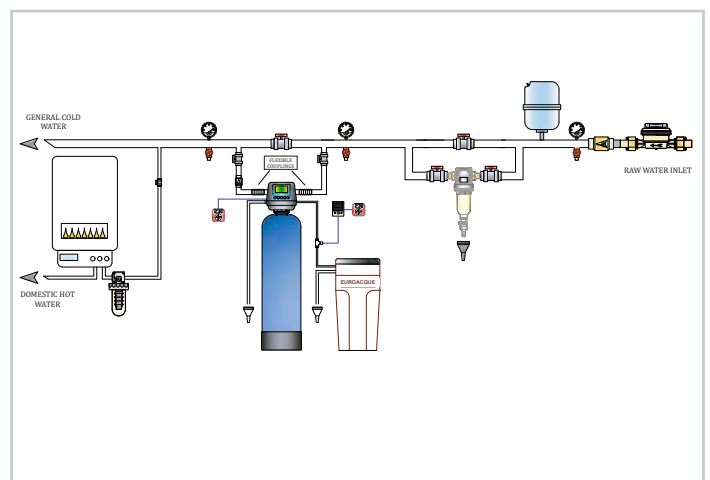
**CHLORINE PRODUCER:** The appliance is SELF DISINFECTING (except the NP version) and is equipped with an electrolytic cell (chlorine producer) coated in titanium, which produces chlorine during the brine suction phase. Resins are disinfected at each regeneration to preserve the bacteriological quality of the soft water.

Operating pressure: 1.8/5.0 bar.


**INSTALLATION WITH CAB**



**2 BODY INSTALLATION**



### ACCESSORIES

	CODE	MODEL	DESCRIPTION
	BYPFL002	BY-PASS/AF/CA	System exclusion by-pass for AF, AF/DIGIT and EKOSOFT series



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