

## WATEX CMS WATER SOFTENER TECHNICAL DATA

Equipment technical parameters	Unit	Model				
		CMS 8	CMS 9	CMS 10	CMS 12	CMS 13
Flow rate* Qnom	m <sup>3</sup> /h	0.4	0.6	1.0	1.4	1.8
Flow rate** Qmax	m <sup>3</sup> /h	0.6	1.0	1.6	2.2	2.8
Maximum flow rate	m <sup>3</sup> /h	3.0	3.0	3.0	3.0	3.0
One filter tank capacity between regenerations	liters	2300	3800	6000	8300	10600
Incoming water quality for calculation		Iron – 0,2mg/l; Water hardness – 6,0 mg-ekv/l				
Amount of water for 1 regeneration***	liters	70	100	150	200	250
Salt consumption for 1 regeneration	kg	2.3	3.8	6.0	8.3	10.5
Minimum flow rate for rinsing	m <sup>3</sup> /h	0.26	0.33	0.41	0.58	0.68
Pressure tank size (diameter)	Inches	8	9	10	12	13
	M	0.20	0.24	0.25	0.30	0.33
Pressure tank volume	liters	25	32	64	85	110
Filtering material volume	liters	15	25	40	55	70
Equipment dimensions						
Lenght (L)	m	0.53	0.56	0.59	0.64	0.84
Width (W)	m	0.20	0.24	0.25	0.30	0.33
Height (H)	m	1.08	1.41	1.57	1.52	1.57
Connection incoming/outgoing/drain	inches	1"/1"/1"	1"/1"/1"	1"/1"/1"	1"/1"/1"	1"/1"/1"
Clack control valve		CI 1"	CI 1"	CI 1"	CI 1"	CI 1"
Water treatment possibilities		Water hardness, iron, ammonium, turbidity				
Pressure tank material		FRP (Fiberglass Reinforced Plastic)				
Filtering material		Ion exchange resins Resinex KW-8, quartz sand 1x3 mm, 3x5 mm				
Working pressure	bar	2-6				
Electric connection		220V, 50Hz, 1 phase				
Electric consumption	W	3 W				



- \* Filtration speed 25 BV/h
- \*\* Filtration speed 40 BV/h
- \*\*\* Volume can multiply if incoming water quality changes

## WATER SOFTENER WATEX CMS DESCRIPTION

WATEX CMS series equipment are water softening filters for households and small manufacturing companies. They are able not only to purify water from hardness creating salts, but also to purify the water completely from the ammonium and iron content. The filter regeneration process uses a reagent (NaCl, or salt tablets) to regenerate the filter material (ion exchange resins). The rinsing water of the equipment can be discharged to biological WWTPs (wastewater treatment plants).

WATEX CMS series set consists of a filter pressure tank, a control valve and a salt tank. The filter pressure tank is filled with ion exchange resin (cation exchange resin), which reduces water hardness, ammonium and iron. The control valve performs an automatic filter regenerations. The salt tank is filled with a reagent (NaCl, salt tablets) for resin recovery. Depending on the amount of resin and the incoming water quality, the clean water capacity between regenerations is determined.

WATEX CMS series water softeners are equipped with Clack WS1CI series control valve complete with a water flow meter that rinses the filters according to the amount of water consumed. Thanks to the flow meter, rinsing will be performed according to the amount of water installed. The flow meter saves rinsing water and salt. The machine can be equipped with a bypass line, which allows you to quickly shut down the machine and perform filter maintenance. All information is retained on the control unit even in the event of a power failure.

The device has many parameters that can be adjusted to suit your needs, such as rinsing time, frequency, reagent consumption, etc. It is also possible to change the water hardness of the unit (in some control unit models).

The device also performs the function of iron removal, however the iron content must not exceed 2.5-3.0 mg / l.

Although salt tablets are used to regenerate the filter material, the water after the filter is used for drinking and other necessities of human life.

The unit requires a connection to electricity (one socket), a sewer and an incoming / outgoing water supply with a minimum pressure of 2.5 bar.

The unit can be placed in damp rooms or in underground shafts made of grooves.