

WATEX CMS WATER SOFTENERS – TECHNICAL DATA

Technical data	Unit	Model				
		CMS 8	CMS 9	CMS 10	CMS 12	CMS 13
Flow rate* Qnom	m ³ /h	0.4	0.6	1.0	1.4	1.8
Flow rate** Qmax	m ³ /h	0.6	1.0	1.6	2.2	2.8
Maximum flow rate	m ³ /h	3.0	3.0	3.0	3.0	3.0
Capacity between regenerations	litres	2300	3800	6000	8300	10600
Design inlet water quality		Iron – 0,2mg/l; Hardness – 6,0 mg-ekv/l				
Rinse water volume***	litres	70	100	150	200	250
Salt per regeneration	kg	2.3	3.8	6.0	8.3	10.5
Minimum rinsing flow	m ³ /h	0.26	0.33	0.41	0.58	0.68
Tank diameter	inches	8	9	10	12	13
	m	0.20	0.24	0.25	0.30	0.33
Tank volume	litres	25	32	64	85	110
Filter media volume in tank	litres	15	25	40	55	70
Overall dimensions						
Length (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
Inlet/outlet/drain connections	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"
Treatment capabilities		Hardness, iron, ammonium, turbidity				
Tank material		FRP (fibreglass)				
Filter media		Resinex KW-8 ion-exchange resin, quartz sand 1x3 mm, 3x5 mm				
Operating pressure	bar	2-6				
Power supply		220V, 50Hz, 1 phase				
Power consumption	W	3 W				



* Filtration rate 25 BV/h
 ** Filtration rate 40 BV/h
 *** Volume may double
 if inlet water quality changes

WATEX CMS WATER SOFTENERS – DESCRIPTION

WATEX CMS units soften water for domestic and industrial use. In addition to removing hardness-causing salts, they can completely remove ammonium and iron from the water. Treatment uses a reagent (NaCl, or salt tablets) to regenerate the filter media (resin). Rinse water from these units can be discharged to biological wastewater treatment plants.

A WATEX CMS system consists of a filter column, a control valve and a salt tank. The filter column contains ion-exchange resin (cation-exchange resin), which reduces hardness and ammonium and filters out iron. The control valve rinses the unit automatically. The salt tank is filled with reagent (NaCl, salt tablets) to regenerate the resin. The volume of water the unit can treat depends on the resin quantity and water quality.

WATEX CMS units have a Clack WS1CI control valve with a flow meter, which initiates rinsing according to water consumption. Rinsing starts after the preset water volume has been used. The flow meter saves rinse water and salt. An optional bypass line allows the unit to be isolated quickly for preventive maintenance. All information stored in the control valve is retained during a power failure.

Many settings can be adjusted to suit your needs, including rinsing time, frequency and reagent consumption. The water hardness can also be adjusted [on certain control valve models](#).

The unit also removes iron, but the iron concentration must not exceed 2.5-3.0 mg/l.

Although salt tablets are used for regeneration, the filtered water can be used for drinking and other everyday needs.

The unit requires an electrical connection (one socket), a drain connection and inlet/outlet water connections with a minimum pressure of 2,5 bar.

The unit can be installed in damp rooms or underground chambers built from concrete rings.