

WATEX CMS PLUS WATER SOFTENERS TECHNICAL DATA

Technical parameters	Unit	Model					
		CMS 8 PLUS	CMS 9 PLUS	CMS 10 PLUS	CMS 12 PLUS	CMS 13 PLUS	CMS 14 PLUS
Service flow rate Q _{max}	m ³ /h	0.6	1.0	1.6	2.2	2.8	3.6
Water per regeneration	L	100	130	156	200	250	300
Minimum backwash flow rate	m ³ /h	0.6	0.8	1.0	1.5	1.7	2.0
Pressure vessel diameter	in	8	9	10	12	13	14
	m	0.20	0.24	0.25	0.30	0.33	0.37
Pressure vessel volume	L	25	32	64	85	110	145
Filter-media volume	L	15	25	40	55	70	100
Overall dimensions							
Length (L)	m	0.53	0.56	0.59	0.64	0.84	0.87
Width (W)	m	0.20	0.24	0.25	0.30	0.33	0.37
Height (H)	m	1.08	1.41	1.57	1.52	1.57	1.87
Connections: inlet/outlet/drain	in	1"	1"	1"	1"	1"	1¼"
Clack control valve		CI 1"	CI 1"	CI 1"	CI 1"	CI 1"	CI 1.25"
Treatment capability		Hardness, iron					
Pressure-vessel material		FRP (fibreglass-reinforced plastic)					
Filter media		Ecotar B ion-exchange resin; silica sand 1–3 mm and 3–5 mm					
Operating pressure	bar	2–6					
Power supply		220 V, 50 Hz, single phase					
Power consumption	W	3 W					



WATEX CMS PLUS WATER SOFTENERS DESCRIPTION

APPLICATION

WATEX CMS PLUS series units are water softeners for household use. They reduce water hardness and iron content.

FILTER PERFORMANCE

The ion-exchange filter media is regenerated with sodium chloride (NaCl salt tablets). Wastewater produced during regeneration may be discharged to a biological wastewater treatment plant. A WATEX CMS PLUS system comprises a pressure vessel, a control valve and a brine tank. The vessel contains cation-exchange resin that reduces hardness and iron. The control valve regenerates the unit automatically. Sodium chloride in the brine tank restores the resin's exchange capacity. Treatment capacity depends on resin quantity and raw-water quality. The unit also removes iron, provided the iron concentration does not exceed 15.0 mg/L.

FILTER CONTROL

Depending on the model, WATEX CMS PLUS uses a Clack WS1CI or WS1.25CI control valve with a built-in flow meter. Regeneration starts according to water consumption, reducing regeneration-water and salt use. An optional bypass valve simplifies maintenance. All programmed settings remain stored during a power failure. Regeneration duration, frequency and salt dosage can be adjusted, as can outlet-water hardness.

EQUIPMENT MAINTENANCE

Although salt tablets are used for regeneration, treated water is suitable for drinking and other household uses. The unit requires one electrical outlet, a drain, and inlet and outlet water connections with at least 2.5 bar supply pressure.

RECOMMENDATIONS

Have the raw water chemically analysed before selecting the unit. Install a mechanical prefilter upstream to help ensure a long service life.