

WATER SOFTENING FILTERS WATEX CMS - TWIN TECHNICAL DATA

Equipment technical parameters	Unit	Model				
		CMS 8 TWIN	CMS 9 TWIN	CMS 10 TWIN	CMS 12 TWIN	CMS 13 TWIN
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
One filter tank capacity between regenerations***	litres	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	litres	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 ³ /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	litres	25	32	64	85	110
Filtering material volume	litres	15	25	40	55	70
Equipment dimensions						
Length (L)	m	0.53	0.56	0.59	0.64	0.84
Width (W)	m	0.28	0.28	0.28	0.30	0.46
Height (H)	m	1.08	1.41	1.57	1.52	1.57
Connections incoming/outgoing/drain	inches	1"/1"/1"	1"/1"/1"	1"/1"/1"	1"/1"/1"	1"/1"/1"
CLACK control valve		CI TWIN 1"	CI TWIN 1"	CI TWIN 1"	CI TWIN 1"	CI TWIN 1"
Water treatment possibilities	Water hardness, iron, manganese, 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 connections	220V, 50Hz, 1 phase					
Electric consumption	W	3 W				

* Filtration speed 25 BV/h
 ** Filtration volume 40 BV/h
 *** Volume can change depending on the incoming water quality



WATER SOFTENING FILTER WATEX CMS TWIN DESCRIPTION

WATEX CMS TWIN series equipment is water softening filters for households and factories. These filters can remove not only hardness creating salts, but also ammonium and iron from water. In the water treatment process reagent (NaCl or salt tablets) is used, which is used for filter media (ion exchange resins) regeneration. The equipment regeneration water can be directed to a biological waste water treatment plant.

WATEX CMS TWIN series set consists of 2 pressure tanks, CLACK control valves and brine tanks. Pressure tanks are filled with ion exchange resins (cation), which reduces water hardness, ammonium and iron. CLACK control valve performs automatic rinsing of the filter media. Brine tank is filled with reagent (NaCl; salt tablets) for ion exchange resin regeneration. Based on the incoming water quality and amount of filter media, the capacity for clean water between regenerations is determined.

WATEX CMS TWIN series water softeners are set up with Clack WS1CI control valves with a water flow meter. Because of the water flow meter, the control valve will perform regenerations based on the programmed volume of water. Water flow meter can save rinsing water and salt consumption. For the equipment a bypass can be installed, which allows quickly to shut down water flow through the filter and to perform filter maintenance. The control valve saves all the information even in the event of a power failure.

The equipment has many parameters, which can be adjusted according to your needs such as the rinsing time and frequency, reagent consumption etc. It is also possible to change the water hardness (with certain CLACK control valve models).

The equipment also performs iron removal function in the cases where dissolved iron does not exceed 2.5-3.0 mg/l.

Even though salt tablets are used for filter regeneration, the filtered water can be used for drinking water and other human needs.

The equipment requires a connection to electricity (one socket), drain and incoming / outgoing water connection with minimal water pressure of 2,5 bar.

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