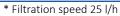


TECHNICAL DATA OF WATER SOFTENER WATEX CMS TRIPLEX

Technical parameters of equipment	Unit	Model					
		CMS 16	CMS 18	CMS 21	CMS 24	CMS 30	CMS 36
		Triplex	Triplex	Triplex	Triplex	Triplex	Triplex
Flow rate* Qnom	m³/h	9.3	10.5	10.5	13.5	25.5	37.5
Flow rate ** Qmax	m³/h	13.5	13.5	13.5	13.5	34.5	57.0
Maximum flow rate	m³ (l/s)	13.5	13.5	13.5	13.5	34.5	57.0
		(3.75)	(3.75)	(3.75)	(3.75)	(9.6)	(15.8)
The amount of water between	m^3	18.9	22.7	30.3	41.0	64.0	75.0
regenerations							
Incoming water quality for calculation			Iron – 0,2mg/l; Water hardness – 6,0 mg-ekv/l				
Amount of water for 1 regeneration***	liters	410	500	670	900	1400	1800
Salt consumption for 1 regeneration	kg	18.8	22.5	30.0	41.5	64.0	75.0
Minimum flow rate for rinsing	m³/h	1.1	1.4	1.8	2.3	3.7	5.3
Salt tank size	liters	145	200	350	350	500	500
	Diameter, m	0.53	0.55	0.78	0.78	0.87	0.87
Tank size (diameter)	inches	16	18	21	24	30	36
	m	0.41	0.46	0.53	0.61	0.76	0.91
Tank volume	liters	183	237	316	415	640	850
The amount of filtering material	liters	125	150	200	275	425	550
Equipment dimensions							
Length (L)	m	1.84	2.07	2.38	2.83	3.28	3.73
Width (W)	m	0.94	1.01	1.31	1.69	1.93	2.08
Height (H)	m	1.91	1.91	2.00	2.00	2.10	2.10
Connection	inches	1¼"/1¼"/	1¼"/1¼"/	1¼"/1¼"/	1¼"/1¼"/	1 ½"/1	2"/ 2"/1
incoming/outgoing/drain		1"	1"	1"	1"	½"/1¼"	1/2"
Clack control valve		CI 1.25"	CI 1.25"	CI 1.25"	CI 1.25"	CI 1.5"	CI 2.0"
		NHVB x 3	NHVB x 3	NHVB x 3	NHVB x 2	NHVB x 2	NHVB x 2
Water treatment possibilities			Hardness, iron, ammonium, turbidity				
Tank material			FRP (fiberglass)				
Filtering material			Ion exchange resins RESINEX KW-8, quartz sand 1x3mm, 3x5 mm				
Working pressure	bar		2-6				
Electric Connection			220V, 50Hz, 1 phase				
Electricity consumption	W		3 W				



^{**}Filtration speed 40 l/h

^{***} Volume can multiply if incoming water quality changes





WATER SOFTENER WATEX CMS30 TRIPLEX DESCRIPTION APPLICATION

WATEX CMS30 TRIPLEX series equipment is a water softening equipment for process and drinking water purposes. It is able to reduce water hardness and iron content.

FILTER PERFORMANCE

For recovery of filtering material (ion resins) reagent (NaCl or salt tablets) is used. Wastewaters produced in regeneration processes of equipment in WATEX CMS30 TRIPLEX can be directly discharged to biological wastewater treatment plant. WATEX CMS30 TRIPLEX consists of a 3 filter columns, 3 control units and 3 brine tanks. The filter columns are filled with ion exchange resin (cationic), which reduces hardness and iron concentration in water. The control units perform automatic regeneration. Brine tank is filled with a reagent (NaCl, salt tablets) for resin regeneration. Capacity of filter material is calculated according to amount of resins and raw water quality.

FILTER CONTROL

WATEX CMS30 TRIPLEX is equipped with a Clack WS CI 1.5 control units, with a built-in flow meter that performs filter material regeneration according to water consumption. Control unit saves all information in case of power failure. Equipment has many parameters that can be adjusted according to needs, such as washing time, frequency, reagent consumption, and so on. It is possible to change the water hardness.

EQUIPMENT MAINTENANCE

Although the equipment uses salt tablets for regeneration it is safe to use filtered water for drinking and other human needs. It is necessary to provide electricity connection power (one socket), sewerage drainage and incoming / outgoing water supply with minimum pressure of 2.5 bar.

RECOMMENDATIONS

Recommendation! Before selection of equipment, it is recommended to test raw water chemical composition.

Recommendation! Before the water filter, it is preferable to install mechanical filter to ensure long-term equipment service life.