

Industrial double softening device IDM

Quantity and time controlled

Description

Industrial double softening device contains from:

- Two vessels from PES with glass fibers filled with ion exchange resin
- A vessel for brine with lid from PE and suction lines
- Central distribution valve from brass with control unit.
- High capacity ion exchange resin on granulate base
- Turbine water meter



Industrial softening device is fully automatic. It is controlled on the base of produced quantity of softened water and time. In special case controlling could be performed with a sensor based on measurement of actual hardness.

For this purpose we offer a sensor for photometrical measurement of water hardness. Specified solution is especially suitable for medium and big devices when the quality of entering water is not constant.

Advantages

- Continual production of softened water
- Simple installation and a very low level of water hardness (less than 0.05°dH)
- Soft water quantity gauges (quantity produced before the next regeneration)
- Smaller amounts of salt necessary for regeneration. For regular capacities of 320 m³ x °dH for several passages, the decrease in salt solution is very economical.
- In the economical mode, capacities greater than 22.4 m³x °dH/kg NaCl are achieved.
- Compact in size, minimal space required.

Additional equipment

- Mixing vessel,
- Water meter for measurement of produced softened water
- Alarm switch SMS when the salt vessel is empty, combined with a sliding valve

Industrial double softening device

Model	Unit	IDM 25-25	IDM 25-50	IDM 25-75	IDM 25-100	IDM 40-125	IDM 40-150	IDM 40-200	IDM 40-250	IDM 50-300	IDM 50-400	IDM 50-500
Flow rate	m ³ /h	1	2	3	4	5	6	8	10	12	16	18
Capacity	°dH×m ³	100	200	300	400	500	600	800	1.000	1.200	1.600	2.000
ion exchange resin/tank	l	25	50	75	100	125	150	200	250	300	400	500
Salt consumption	kg	5	10	15	20	25	30	40	50	60	80	100
Water consumption	m ³	0,25	0,5	0,75	1	1,25	1,5	2	2,5	3	4	5
Connections												
Raw water		R 1"	R 1"	R 1"	R 1"	R 1 ½"	R 1 ½"	R 1 ½"	R 1 ½"	R 2"	R 2"	R 2"
Softened water		R 1"	R 1"	R 1"	R 1"	R 1 ½"	R 1 ½"	R 1 ½"	R 1 ½"	R 2"	R 2"	R 2"
Electric connection												
Voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
ion exchange resin tank												
Diameter	mm	210	304	330	360	410	460	535	610	610	765	765
Height	mm	1.224	1.344	1.387	1.641	1.641	1.704	1.699	1.626	1.882	2.040	2.040
Salt tank												
Volume	l	100	200	200	300	300	500	500	800	1.000	1.000	1.600
Diameter	mm	530	620	620	760	760	930	930	910	1.240	1.240	1.440
Height	mm	645	830	830	815	815	1.030	1.030	1.170	1.260	1.260	1.310
Installation dimensions												
Width	mm	1.500	1.700	1.700	1.800	2.000	2.200	2.300	2.600	2.900	3.100	3.400
Depth	mm	600	700	700	800	1.000	1.000	1.000	1.200	1.300	1.300	1.600
Height	mm	2.000	2.000	2.000	2.000	2.100	2.100	2.100	2.100	2.300	2.300	2.300