

MIXED BED DEMINERALIZER UNIT

Mixed bed ion exchangers consist of cation and anion resins which are thoroughly intermixed in a single vessel. These units reduce the ionic impurities in a process stream by exchanging positively charged ions for hydrogen ions on the cation resin and negatively charged ions for hydroxyl ions on the anion resin. The released hydrogen and hydroxyl ions then combine to form pure water. Each mixed bed vessel has a limited capacity for removing impurities from the process stream. After service run the resin becomes exhausted unable to remove ions. The resins must be regenerated. The cation is regenerated with an acid solution and the anion is regenerated with a caustic solution.

Standard Features

- 6 bar Carbon steel tank
- Inside ebonite lined/outside epoxy painted
- Three sight glass
- Strong acid cation&strong base anion resin
- PVC piping
- PP nozles
- Inlet/outlet pressure gauge
- Sample valve
- Product conductivitymeter
- PLC controller
- Completely assembled
- Diaphragm valves for 3" piping and smaller
- Butterfly valves for 4" piping and larger.

Application Area

- Food Industry
- Pharma Industry
- Boiler
- Metal Industry
- Power Plant, etc

Optional Equipment

- 9 bar carbon steel tank
- Inlet flowmeter
- 316 SS piping
- 316 SS distribution
- Chemical dosing unit (Acid/caustic)
- Ebonite lined carbon steel piping
- Silica Analyzer
- Neutralization system
- Air compressor
- Hava kompresörü



INDUSTRIAL MIXED BED DEMINERALIZER

Type	Cation	Anion	Flowrate	Flowrate	Dimension			Weight
	L	L	m3/h	m3/h	L	W	H	kg
IMX-01	450	450	7	35	1.850	1.900	3.850	1.617
IMX-02	450	650	9	43	2.100	1.900	4.450	1.902
IMX-03	450	875	10	43	2.100	1.900	5.100	2.133
IMX-04	600	600	9	47	2.300	2.000	4.250	2.191
IMX-05	600	875	12	58	2.300	2.000	4.800	2.465
IMX-06	600	1.175	14	51	2.300	2.000	5.450	2.773
IMX-07	800	800	12	51	2.400	2.350	4.250	2.804
IMX-08	800	1.175	15	51	2.400	2.350	4.850	3.205
IMX-09	800	1.550	19	51	2.400	2.350	5.450	3.607
IMX-10	950	950	15	49	2.400	2.350	4.200	3.173
IMX-11	950	1.425	19	49	2.400	2.350	4.800	3.657
IMX-12	950	1.900	23	49	2.400	2.350	5.450	4.154
IMX-13	1.175	1.175	18	47	2.450	2.400	4.250	3.756
IMX-14	1.175	1.750	23	49	2.450	2.400	4.850	4.308
IMX-15	1.175	2.325	28	49	2.450	2.400	5.500	4.907
IMX-16	1.400	1.400	22	48	2.550	2.600	4.300	4.303
IMX-17	1.400	2.100	28	92	2.550	2.600	4.900	4.969
IMX-18	1.400	2.775	33	92	2.550	2.600	5.500	5.621

enki reserves the right to change the specifications referred to in this table at any time, without prior notice.