

## FRP DE-MINERALISATION PLANTS (TWO BED DM PLANTS)



AGUAPURO FRP Water De-Mineralizers uses the proven Technique of Counter Current Regeneration; this involves the flow of raw water during Service, in opposite directions to each other. This ensures the consistent treated water quality which is always less than 2 ppm (TDS) or Electrical Conductivity less than 10 micro S/cm throughout the cycle.

Cation and Anion Exchange resin in Hydrogen and Hydroxyl form is used to Exchange Cation and anion ions respectively, to produce De-Mineralized or De-Ionized water. At the end the service cycle, the Cation and Anion exchange resins are regenerated with Hydrochloric Acid (HCl) and Sodium Hydroxide (NaOH) solution, to make system ready for next service cycle.

### Specifications

- FRP Pressure Vessels for Cation and Anion Exchanger Unit
- Internal Collection and Distribution System
- Multi Port Valve for easy operation or Individual Values
- High Strength Cation & Anion Exchange Resin 1st Charge
- Regenerant Tank in HDPE for Regeneration
- PVC Piping, High Schedule Heavy Duty UPVC with Injectors
- TDS Meter & pH Meter (optional) to check Water quality continuously

## Applications

- Boiler Feed water use
- Textile Processing & Laundries
- Hospitals, Hotels, Resorts, Clubs etc
- Battery Water Top up
- Beverage & Food processing Units
- Pharmaceuticals Process Water
- Chemical & Bulk Drug Industry
- Electro Plating & Mirror Silvering

## Advantages

- Light-weight equipment, easy to install
- Skid mounted, does not require civil work
- Pre-assembled and tested before shipment
- Can be installed and commissioned within a day
- Multi Port valve eliminate the need for a operator
- Reducing maintenance and related costs
- Easy availability of spares

**AGUAPURO offers these DM Plants With the Pre Treatment of Filtration Systems to prevent Resins. Raw Water Feed Pump and Mixed Bed DM Plant as a Polisher at an extra cost as a complete package.**

Technical Data Sheet for DM Water Plants:

Sr.No No.	Model No CATION	Model No ANION	Dia mm	P/W MM	Resin Qty Lt	Output Cation	Output Anion	Regenerant Hcl	NaOH
1	735 MPV T	735 MPV T	175	0.5"	20.0	6.00	3.50	5.50	1.60
2.	844 MPVT	844 MPV T	200	0.75"	35.0	10.50	6.00	9.50	2.80
3.	1054 MPV T	1054 MPVT	250	1.0"	50.0	15.00	8.75	13.2	4.00
4.	1248 MPV T	1248 MPV T	300	1.0"	75.0	22.50	13.00	20.0	6.00
5.	1354 MPV T	1354 MPV T	330	1.0"	100.0	30.00	17.50	26.4	8.00
6.	1465 MPV TB	1465 MPV TB	350	1.0"	150.0	45.00	26.50	40.0	12.00
7.	1665 MPV TB	1665 MPV TB	400	1.5"	175.0	52.50	30.50	46.2	14.00
8.	1865 MPV TB	1865 MPV TB	450	1.5"	225.0	7.50	40.00	60.0	18.00
9.	2172 MPV TB	2172 MPV TB	530	2.0"	310.0	93.00	54.25	82.0	24.80
10.	2472 MPV TB	2472 MPV TB	600	2.0"	450.0	135.00	80.00	120	36.00

- OUTPUT PER REGENERATION IS BASED ON 200 PPM Cation and Anion Load
- Capacity is also dependent on Output per Regeneration for Higher TDS of Raw Water
- Model (MPV TB) stands for Multi-Port Value of Side mounted
- All Plants are operated @ 3.5 kgs/cm<sup>2</sup> max pressure
- Hcl Mentioned above is 30% commercial grade and NaOH is 100% Flakes

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