



**FULLY AUTOMATIC HIGH PURITY
PROCESS WATER TREATMENT**

QUICK CYCLE

FULLY AUTOMATIC DEMINERALISERS



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We remove everything from water – Except “Hydrogen & Oxygen”

Ionic redefines the way water is demineralized. Water treatment is important. More important is how efficiently you treat water.

24 models of fully automatic demineralisers use 5th Generation Premium grade proprietary ion exchange resin technology and process technology. The flow rate ranges from 2.0- 35.0 m³/hr. Three different series produces 3 different treated water qualities for meeting different end user requirements.

Unlike conventional manually operated demineralisers “Quick Cycle” plant requires very short service cycle and regeneration time offering many direct and intangible benefits to the end user.

With rising water shortage, environmental problems and operating cost we need to seriously think about lowering Life Cycle cost and Quick Cycle demineralisers just offers that!

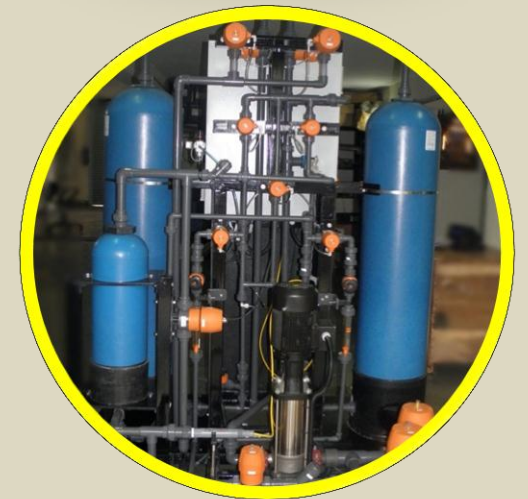
Please do contact us with your specific requirements and Ionic will give you the optimum solution.

Small in Size- Big in Performance

IONIC offers its unique skid mounted compact, pre-engineered **Fully automatic PLC controlled "Quick Cycle" demineralisers with "Chemical saving technology"** for producing demineralised water having conductivity < 1.0 $\mu\text{S}/\text{cm}$. All components are carefully selected to give long term reliable performance. Advanced safety features have been incorporated for reliable operation 24 hrs. and 365 days a year. Optionally print out facility and Remote Real time monitoring can be provided for critical parameters.

1. Very compact
2. Fully automated PLC controlled
3. Skid mounted
4. Corrosion resistant construction
5. Pre-engineered and tested
6. 24 Models and 8 flow capacities
7. High quality of treated water
8. Low chemical consumption
9. Low power consumption
10. Low water consumption
11. Mixed bed quality without Mixed bed
12. Unattended operation
13. Unique safety features
14. Highly reliable components
15. Low maintenance cost
16. High quality UPVC piping and valves
17. High quality SS 316 multistage process pump
18. High quality control panel
19. FRP/M.S/SS-304 skid option
20. Printout facility option
21. Remote Monitoring Option
22. Integrated Pretreatment
23. Bulk regenerant chemical handling system

Note:- Please consult Ionic with complete raw water analysis report and treated water specification for suitable selection for your requirement.



MODELS	QC-1 HQ	QC-2HQ	QC-3HQ	QC-4HQ	QC-5HQ	QC-6HQ	QC-7HQ	QC-8HQ
Max. flow m ³ /hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0
Treated water Quality								
• Conductivity μS/cm	<1-0.1	<1-0.1	<1-0.1	<1-0.1	<1-0.1	<1-0.1	<1-0.1	<1-0.1
• Resistivity	>1-12	>1-12	>1-12	>1-12	>1-12	>1-12	>1-12	>1-12
• pH	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7
Gross Output/ Regn. In m ³ @100 ppm as CaCO ₃ anionic load	14	21	28	35	63	84	126	168
Regeneration Time – min Approximate	< 35	< 35	< 35	< 35	< 35	< 35	< 35	< 35
Chemicals / Regeneration in Litres								
HCl -32%	7.4	11.0	14.8	18.4	33.2	44.2	66.3	44.2
NaOH -32%	6.9	10.4	13.9	17.3	31.3	41.6	62.4	41.6
Effluent/ Regeneration in m ³	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0
Max. Effluent flow m ³ /hr	2.5	4.4	5.0	6.5	11.2	14.6	22.0	14.6
Bulk effluent pH	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9
Feed water quality	< 300 ppm anionic load free from suspended solids @ < 40 deg C°							
Electrical data								
Supply – 415 V AC 3 Ø								
Power consumption - Kw	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.0
Air supply data	4-6 bar oil free, moisture free inst. Quality air 5-15 lpm intermittent							
Operation	Fully automatic PLC controlled with Colour Touch screen MMI							

MODELS	QC-1 MQ	QC-2MQ	QC-3MQ	QC-4MQ	QC-5MQ	QC-6MQ	QC-7MQ	QC-8MQ
Max. flow m ³ /hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0
Treated water Quality								
• Conductivity μS/cm	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2
• Resistivity	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5
• pH	7-8	7-8	7-8	7-8	7-8	7-8	7-8	7-8
Gross Output/ Regn. In m ³ @100 ppm as CaCO ₃ anionic load	14	21	28	35	63	84	126	168
Regeneration Time – min. Approximate	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Chemicals / Regeneration in Litres								
HCl -32%	7.4	11.0	14.8	18.4	33.2	44.2	66.3	44.2
NaOH -32%	6.9	10.4	13.9	17.3	31.3	41.6	62.4	41.6
Effluent/ Regeneration in m ³	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0
Max. Effluent flow m ³ /hr	2.5	4.4	5.0	6.5	11.2	14.6	22.0	14.6
Bulk effluent pH	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9
Feed water quality	< 300 ppm anionic load free from suspended solids @ < 40 deg C°							
Electrical data								
Supply – 415 V AC 3 Ø								
Power consumption - Kw	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.0
Air supply data	4-6 bar oil free, moisture free inst. Quality air 5-15 lpm intermittent							
Operation	Fully automatic PLC controlled with Colour Touch screen MMI							

MODELS	QC-1 IQ	QC-2IQ	QC-3IQ	QC-4IQ	QC-5IQ	QC-6IQ	QC-7IQ	QC-8IQ
Max. flow m ³ /hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0
Treated water Quality								
• Conductivity μS/cm	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2	<5-0.2
• Resistivity	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5	>0.2-5
• pH	7-8	7-8	7-8	7-8	7-8	7-8	7-8	7-8
Gross Output/ Regn. In m ³ @100 ppm as CaCO ₃ anionic load	17	26	35	43	78	105	157.5	210
Regeneration Time – min Approximate	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Chemicals / Regeneration in Litres								
HCl -32%	7.4	11.0	14.8	18.4	33.2	44.2	66.3	88.4
NaOH -32%	6.9	10.4	13.9	17.3	31.3	41.6	62.4	83.2
Effluent/ Regeneration in m ³	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0
Max. Effluent flow m ³ /hr	2.5	4.4	5.0	6.5	11.2	14.6	22.0	14.6
Bulk effluent pH	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9
Feed water quality	< 300 ppm anionic load free from suspended solids @ < 40 deg C°							
Electrical data								
Supply – 415 V AC 3 Ø								
Power consumption - Kw	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.0
Air supply data	4-6 bar oil free, moisture free inst. Quality air 5-15 lpm intermittent							
Operation	Fully automatic PLC controlled with Colour Touch screen MMI							

Disclaimer: Ionic has a policy of continuous product improvement and hence reserves the right to change the specifications without notice. All the information provided is based on good faith and based on the current knowledge we have and no direct / indirect liability will be accepted arising out of use of the above products.