



**FULLY AUTOMATIC HIGH PURITY
PROCESS WATER TREATMENT**

QUICK CYCLE

FULLY AUTOMATIC DEMINERALISERS

le.IONIC

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Small in Size- Big in Performance

Ionic redefines the way water is demineralized. Water treatment is important. More important is how efficiently you treat water. With Minimum and Zero liquid discharge manufacturing facilities becoming the regulatory norms and with rising water shortage, environmental problems and operating cost we need to seriously think about lowering Life Cycle cost and consider “Cleaner Production” and Quick Cycle demineralizers just offers that!

30 models of fully automatic “Quick Cycle” demineralizers use 5th Generation Premium grade proprietary ion exchange resin process technology that provides unparalleled manufacturing advantage to industries that wants to reduce their water, waste water and chemical foot print. The flow rate ranges from 2.0- 60.0 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!

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

WE REMOVE EVERYTHING FROM WATER – EXCEPT “HYDROGEN & OXYGEN”

“QUICK CYCLE” FULLY AUTOMATIC DEMINERALISERS

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 µS/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. Industry 4.0 ready
4. Water 4.0 ready
5. Skid mounted
6. Corrosion resistant construction
7. Pre-engineered and tested
8. 30 Models and 10 flow capacities
9. High quality of treated water
10. Low chemical consumption
11. Low power consumption
12. Low water consumption
13. Mixed bed quality without Mixed bed
14. Unattended operation
15. Unique safety features
16. Highly reliable components
17. Low maintenance cost
18. High quality UPVC piping and valves
19. High quality SS 316 multistage process pump
20. High quality control panel
21. FRP/M.S/SS-304 skid option
22. Printout facility option
23. Remote Monitoring Option
24. Integrated Pretreatment
25. 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.

Industries Served:

- Pharmaceutical water
- Cosmetics
- Chemical industries
- FMCG
- Automotive
- Aerospace
- Boiler feed
- Battery water
- And many more



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MODELS	QC-1 HQ	QC-2HQ	QC-3HQ	QC-4HQ	QC-5HQ	QC-6HQ	QC-7HQ	QC-8HQ	QC-9HQ	QC-10HQ
Max. flow m ³ /hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0	45.0	60
Treated water Quality <ul style="list-style-type: none"> Conductivity µS/cm Resistivity MΩ/cm pH Silica ppm 	<1-0.1 >1.0-12.0 5.0-7.0 0.02									
Gross Output/ Regn. In m ³ @100 ppm as CaCO ₃ anionic load	14	21	28	35	63	84	126	168	210	280
Regeneration Time – min Approximate	< 35-80									
Chemicals / Regeneration in Litres										
HCl -32%	7.4	11.0	14.8	18.4	33.2	44.2	66.3	96	111	146
NaOH -32%	6.9	10.4	13.9	17.3	31.3	41.6	62.4	90	104	139
Effluent/ Regeneration in m ³	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0	9.5	12.6
Max. Effluent flow m ³ /hr	2.5	4.4	5.0	6.5	11.2	14.6	22.0	29.2	43	57
Bulk effluent pH	6.0-9.0									
Feed water quality	< 300 ppm anionic load free from suspended solids @ < 40 deg C°									
Electrical data										
Supply – 415 V AC 3 Ø	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.0	12.5	15.0
Power consumption - Kw										
Air supply data	4-6 bar oil free, moisture free inst. Quality air 5-15 lpm intermittent									
Operation	Fully automatic PLC controlled with Color Touch screen MMI									
MODELS	QC-1 MQ	QC-2MQ	QC-3MQ	QC-4MQ	QC-5MQ	QC-6MQ	QC-7MQ	QC-8MQ	QC-8MQ	QC-8MQ
Max. flow m ³ /hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0	45.0	60
Treated water Quality <ul style="list-style-type: none"> Conductivity µS/cm Silica in ppm pH 	<2.0-5.0 <0.5-0.2 7-8									
Gross Output/ Regn. In m ³ @100 ppm as CaCO ₃ anionic load	14	21	28	35	63	84	126	168	210	280
Regeneration Time – min Approximate	< 35-55									
Chemicals / Regeneration in Litres										
HCl -32%	7.4	11.0	14.8	18.4	33.2	44.2	66.3	96	111	146
NaOH -32%	6.9	10.4	13.9	17.3	31.3	41.6	62.4	90	104	139
Effluent/ Regeneration in m ³	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0	9.5	12.6
Max. Effluent flow m ³ /hr	2.5	4.4	5.0	6.5	11.2	14.6	22.0	29.2	43	57
Bulk effluent pH	6.0-9.0									
Feed water quality	< 300 ppm anionic load free from suspended solids @ < 40 deg C°									
Electrical data										
Supply – 415 V AC 3 Ø	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.0	12.5	15.0
Power consumption - Kw										
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	QC-9IQ	QC-10IQ
Max. flow m ³ /hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0	45.0	60
Treated water Quality <ul style="list-style-type: none"> Conductivity µS/cm Resistivity pH 	<2.0-5.0 >0.5-0.2 7-8									
Gross Output/ Regn. In m ³ @100 ppm as CaCO ₃ anionic load	17	26	35	43	78	105	157.5	210	262.5	350
Regeneration Time – min Approximate	35-55									
Chemicals / Regeneration in Litres										
HCl -32%	7.4	11.0	14.8	18.4	33.2	44.2	66.3	96	111	146
NaOH -32%	6.9	10.4	13.9	17.3	31.3	41.6	62.4	90	104	139
Effluent/ Regeneration in m ³	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0	9.5	12.6
Max. Effluent flow m ³ /hr	2.5	4.4	5.0	6.5	11.2	14.6	22.0	29.2	43	57
Bulk effluent pH	6.0-9.0									
Feed water quality	< 300 ppm anionic load free from suspended solids @ < 40 deg C°									
Electrical data										
Supply – 415 V AC 3 Ø	1.5	1.5	2.2	3.0	5.5	5.5	7.5	11.0	12.5	15.0
Power consumption - Kw										
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									

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