



# QUICK CYCLE AUTOMATIC D.M PLANT

**"Quick, Clean, and Reliable:  
Demineralization Made Simple"**

**Efficient | Reliable | Compact**

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 **IONIC**  
Engineering Technology Pvt Ltd



# INTRODUCTION TO IONIC

**Ionic Engineering Technologies Pvt. Ltd.** is an ISO-9001/2015 certified Indian water and wastewater technology company founded in 2005 with more than **20 years** of experience in the treatment and re-use of hard-to-treat waters. We design and offer equipment to operate in the most challenging conditions, offering a cost-effective and environmentally friendly solution by means of our innovative and state-of-the-art technologies. We carry out projects and solutions for Industrial and Municipal Applications, like Pharmaceuticals, Chemical, Cosmetics, FMCG, Aero Space, Automotive, Metalworking, Steel, Refinery and Petrochemical, O&G Upstream, Downstream, Food & Beverage, Pulp and Paper, Sea Water Desalination, etc. to name a few. Our value engineered “Quality by Design” systems are working in several diverse industries for many years and is helping our customers move towards “Cleaner Production”

**Motivation & Vision:** Our main goal is to create value and make a difference for our clients and partners as well as deliver tailored-made solutions to satisfy the requirements of our clients, respecting the environment. At Ionic Engineering Technologies we believe that making water and wastewater reuse an affordable and sustainable water source is essential to the future development of mankind in terms of economy, environment, and society. All our systems are designed and engineered based on sound engineering practice and offer value for money and bring “Peace of Mind” to our customers.

**Why Ionic?** Good advice is half the battle won. Ionic Engineering is a technology neutral company and focused on providing “Quality by Design” engineered systems. We have technology associates based in Europe and USA for some of the cutting-edge disruptive technologies. The first step to the perfect water treatment solution: Understanding your wastewater analysis. We design the plant based on the water analysis sent by our customer.

We are dedicated to using our professional expertise accumulated over many years, to providing the solution you want, when you want it. We also take great pride in ensuring that every client is satisfied with the operating efficiency of the systems we design and the overall level of service that we provide, whether during the initial contract phase or later, throughout the life of the plant.

- Providing expert advice, tailored to meet your requirements.
- Supplying high quality, good value-for-money systems, and equipment.
- Supporting all our clients for the lifetime of their water & wastewater treatment systems.
- Developing and deploying the best, most economic solutions for your needs
- Listen to our customers as well as our suppliers on products and technologies feedback and updates.
- Continuous improvement in all that we do!

Find the best solution for your processes: Let our competent team from the application technology team advise you now! We look forward to hearing from you.

**Customers:** We have many reputed Multinational companies such as Unilever, Coca-Cola, L'Oréal, John Deere, Tata Hitachi, Bajaj, Tata Motors, Century rayon, GACL to name a few as our customers





## **“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 m<sup>3</sup>/hr. Three different series produces 3 different treated water qualities for meeting different end user requirements.

Unlike conventional manually operated demineralizer's “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.

# Quick Cycle"

## Fully Automatic Demineralizers

IONIC offers compact, skid-mounted, PLC-controlled "Quick Cycle" demineralizers with Chemical Saving Technology for producing water with conductivity  $<1.0 \mu\text{S/cm}$ . Built for 24/7 operation, these systems ensure reliability, low maintenance, and exceptional performance. Optional printout and remote monitoring features enhance usability.

### Features at a Glance

- Fully automatic, PLC-controlled operation
- Industry 4.0 and Water 4.0 ready
- Compact, skid-mounted, corrosion-resistant design
- Low chemical, power, and water consumption
- Mixed-bed quality water without a mixed bed unit
- Premium components: SS316 pumps, UPVC piping, advanced control panels
- Integrated pretreatment and bulk chemical handling
- Optional printout and remote monitoring

### Applications

- Pharmaceuticals Industry
- Cosmetics Industry
- Chemicals Industry
- FMCG
- Automotive Industry
- Aerospace Industry
- Boiler Feed Water
- Battery Water | More

Consult IONIC with your water analysis and requirements for tailored solutions.

# Quick Cycle"

## Fully Automatic Demineralizers Models

MODELS	QC-1HQ	QC-2HQ	QC-3HQ	QC-4HQ	QC-5HQ	QC-6HQ	QC-7HQ	QC-8HQ	QC-9HQ	QC-10HQ
Max. flow m3/hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0	45.0	60
Treated water Quality										
Conductivity µS/cm	<1-0.1									
Resistivity MQ/cm	>1.0-12.0									
pH	5.0-7.0									
Silica ppm	0.02									
Gross Output/ Regn. In m3@100 ppm as CaCO3 Anionic Load	14	21	28	35	63	84	126	168	210	280
Regeneration Time (Approx. min)	< 35-80									
Chemicals / Regeneration in Lit.										
HCl -32%	7.4	11	14.8	18.4	33.2	44.2	66.3	96	111	146
NaOH -32%	6.9	10.4	13.9	17.3	31.2	41.6	62.4	90	104	139
Effluent/ Regeneration in m3	0.5	0.85	1.04	1.22	2.1	2.75	4.125	6.0	9.5	12.6
Max. Effluent flow m3/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 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	12.5	15.0
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-1MQ	QC-2MQ	QC-3MQ	QC-4MQ	QC-5MQ	QC-6MQ	QC-7MQ	QC-8MQ	QC-8MQ	QC-8MQ
Max. flow m3/hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0	45.0	60
Treated water Quality										
Conductivity µS/cm	<2.0-5.0									
Silica ppm	<0.5-0.2									
pH	7-8									
Gross Output/ Regn. In m3@100 ppm as CaCO3 Anionic Load	14	21	28	35	63	84	126	168	210	280
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Chemicals / Regeneration in Ltrs										
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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-1IQ	QC-2IQ	QC-3IQ	QC-4IQ	QC-5IQ	QC-6IQ	QC-7IQ	QC-8IQ	QC-9IQ	QC-10IQ
Max. flow m3/hr	2.25	3.75	5.25	7.5	12.0	16.0	25.0	35.0	45.0	60
Treated water Quality										
Conductivity µS/cm	<2.0-5.0									
Silica ppm	<0.5-0.2									
pH	7-8									
Gross Output/ Regn. In m3@100 ppm as CaCO3 Anionic Load	17	26	35	43	78	105	157.5	210	262.5	350
Regeneration Time (Approx. min)	35-55									
Chemicals / Regeneration in Ltrs										
HCl -32%	7.4	11	14.8	18.4	33.2	44.2	66.3	96	111	146
NaOH -32%	6.9	10.4	13.9	17.3	33.2	41.6	62.4	90	104	139
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WE REMOVE EVERYTHING FROM WATER – EXCEPT "HYDROGEN & OXYGEN"



# GET IN TOUCH

WITH  
**IONIC ENGINEERING TECHNOLOGY PVT. LTD.**

We're here to help you with all your water and wastewater treatment needs. Whether you're looking for customized solutions, technical support, or just want to explore how our services can benefit your business, feel free to reach out to us.

Our team of experts is ready to provide personalized assistance and ensure that you get the most effective and innovative solutions tailored to your requirements. You can contact us via phone, email, or through our website. We value every opportunity to collaborate and are committed to delivering excellence in every interaction.

## CONTACT US :



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