

*Quality
without
discharge*



Aquadem

Demineralization service

WATER TECHNOLOGIES

Aquadem

A simple and economical demineralization solution

AQUADEM is a service dedicated to the production of purified water through demineralization cylinders. They are delivered, installed and controlled in order to produce quality demineralized water.

An Aquadem solution for every application

- Laboratory → demineralized water
- Cosmetics → process water, climatic chambers, glass rinsing, photovoltaics
- Boiler → silicate removal
- Chemical manufacturing → water rinsing and polishing
- Microelectronics → water polishing
- Pharmaceuticals and biotechnology → process and purified water

A high-performance resin

- Thousands of liters are processed daily in our centers based in the Ile-de-France and Rhône-Alpes regions.
- Environmentally friendly regeneration units, combining performance and quality.
- ISO 9001, OHSAS1400 and 45001MASE certifications.
- Each batch of regenerated resin is checked on a test bench.
- Possibility to provide the quality curve corresponding to the resin batch number indicated on your delivered cylinder (resistivity >14,5 Mohm.cm).



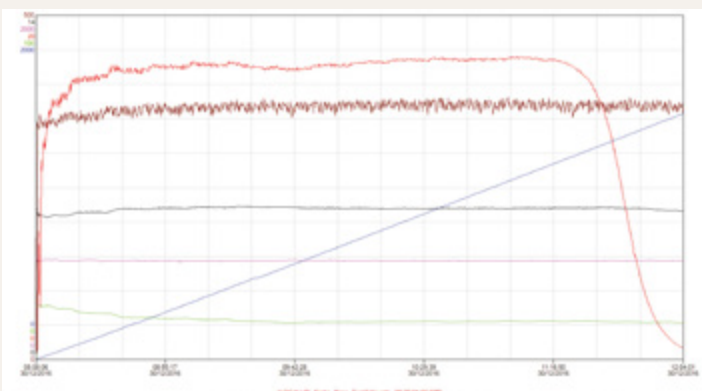
Resistivity meters

Control the quality of your demineralized water

From the simplest to the most sophisticated, Aquadem resistivity meters are designed to monitor and/or record (on USB) the quality of your demineralized water. A wide range of functions enables all requirements to be easily met: water leak detection, after-sales service monitoring, temperature compensation, dual-channel measurement. **Your resistivity meter can be connected to our Hubgrade digital solution in order to visualize your data in real time.**

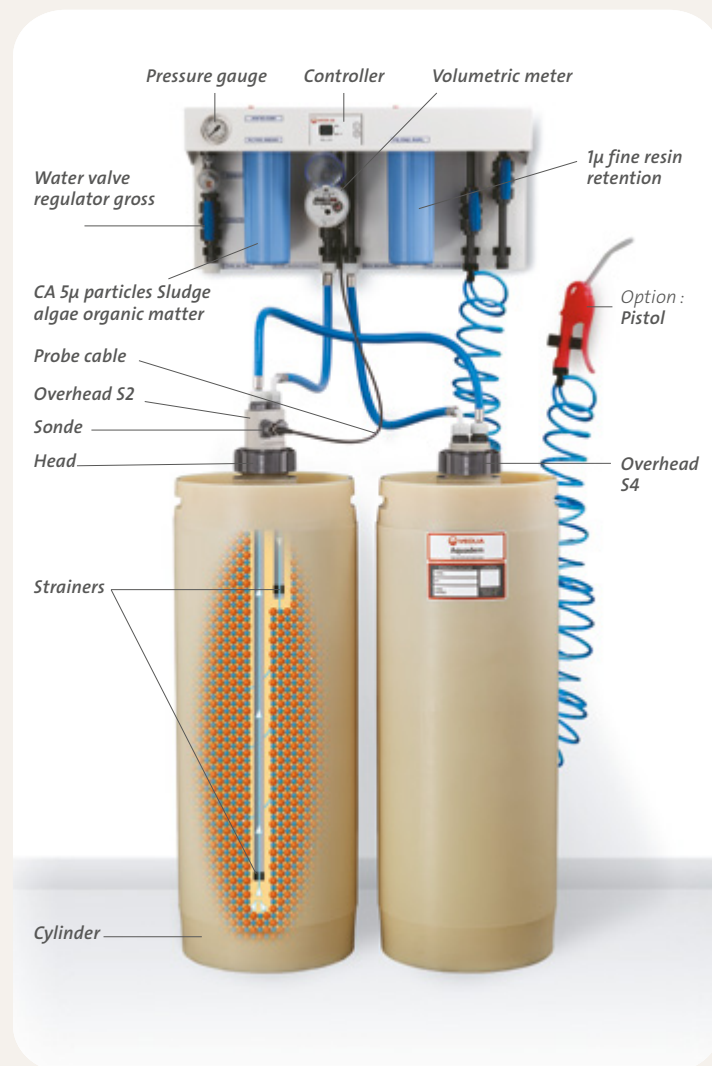
Hubgrade
Powered by VEOLIA

Standard cycle recording curve on test bench - Test bench



Aquadem white range

for low flow rates



Exchange capacity depending on the feed water

	E100	E200	E300	E500	E600	E1000
10°F	1400	2500	3900	7700	10800	17000
20°F	700	1200	1900	3800	5400	8400
30°F	400	800	1300	2500	3600	5600
40°F	300	600	900	1900	2700	4200
50°F	200	500	700	1500	2100	3300

In liters, subject to dissolved CO₂ content and stable feed water quality.

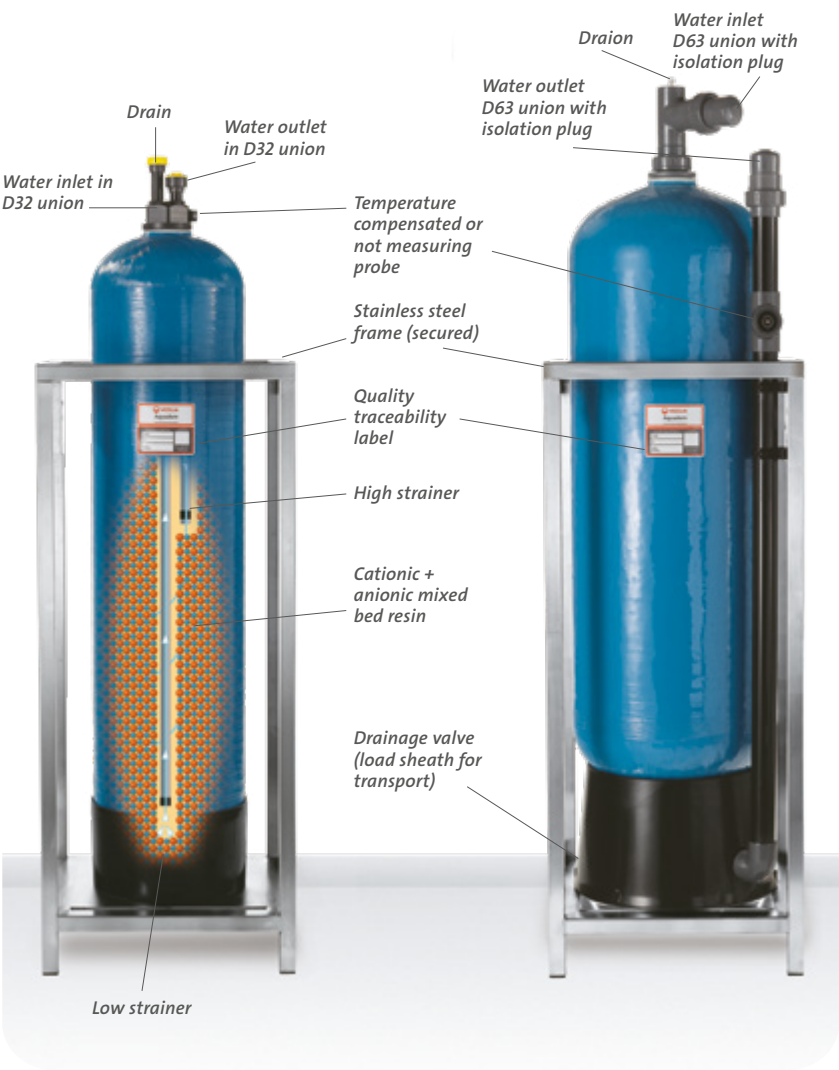
In a mixed bed, the H⁺ and OH⁻, previously fixed on the cationic and anionic resin matrices during the regeneration phases, exchange with the cations (+) and anions (-) present in the water. The resins are then almost completely saturated and must be regenerated. These released H⁺ and OH⁻ ions instantly recombine to create new water molecules: H⁺ + OH⁻ > HOH > 2H₂O. Different types of resin can be proposed to you according to your expectations (anti silica, nuclear grade, softening, activated carbon, etc.).

Technical specifications

Type	E100	E200	E300	E500	E600	E1000
Resin volume (l)	8	14	22	43	60	94
Recommended production rate (l/h)	80	150	250	450	600	1500
Recommended operating pressure (bar)	3	3	3	3	3	3
Dimensions						
Diameter (mm)	205	205	254	254	345	345
Height (cm)	45	65,5	66	117	96	133
Weight (empty of water) (kg)	11	17	25	50	72	110
Maximum temperature 35° C						
Resistivity	Aquadem has developed an exhaustive range of resistivity meters guaranteeing compliance with the standards in force					
Filtration panel	Pre-assembled, the filtration panels of your installations filter particles, colloids and micro-organisms					

Aquadem blue range

for high flow rates



Exchange capacity depending on the feed water

	F	G	I	IHF	L	M
10°F	19500	27000	45000	45000	90000	180000
20°F	10000	13500	22500	22500	45000	90000
30°F	6500	9000	15000	15000	30000	60000
40°F	5000	7000	11250	11250	22500	45000
50°F	4000	6000	9500	9500	18000	36000

In liters, subject to CO₂ dissolved content and stable feed water quality.

Technical specifications

Type	F	G	I	IHF	L	M
Volume (l)	130	180	300	300	600	1200
Flow rate at 3 bar (nominal, l/h)	1300	1800	2500	10 000	20 000	40 000
Flow rate at 3 bar (maximum, l/h)	1500	2 000	3500	20 000	30 000	50 000
Temperature (maximum, ° C)	35	35	35	35	35	35
Pressure (nominal bar)	3	3	3	3	4	4
Pressure (maximum, bar)	5	5	5	5	8	8
Dimensions						
Ground clearance (cm)	65x65	64x64	64x64	64x64	90x90	110x135
Height (cm)	200	193	200	210	200	215
Weight (empty of water) (kg)	210	240	390	390	780	1450
Resistivity	Aquadem has developed an exhaustive range of resistivity meters guaranteeing you compliance with the standards in force.					
Filtration panel	Pre-assembled, the filtration panels of your installations filter particles, colloids and micro-organisms					



Regeneration centre



A local service

National service: our teams intervene throughout France and Belgium for the installation, commissioning and technical follow-up (Aquaserve) of your demineralization units.

Standard exchange: our local agencies ensure, through their distribution technicians, the standard exchange of your demineralizers. The saturated demineralizers are then sent to our two resin regeneration centers. We also offer units with “export” heads allowing customers to empty and refill their own cylinder with new resin.

Aquaserve: customized services for network disinfection, maintenance, calibration of control instruments, supply and replacement of filter cartridges and spare parts.

Audit, advice and training to make the most of your water production system.

Breakdown assistance: making up for a breakdown, anticipating a one-off increase in production... Aquadem also offers you hire demineralization systems ready for use.



SOS demineralized water

Aquadem quickly puts demineralized water production units at your service, delivered and started up with a simple call to **0820 333 350**.

When do you need the SOS demineralized water service?

- Cleaning of installations and networks
- Planned or unplanned maintenance
- Urgent need for demineralized water
- Pilot test
- Increase in production

Advantages of Aquadem units

- Speed, adaptability and security
- No monthly investment
- Reliability
- No chemicals
- No effluent to treat

Resourcing the world