

Rapid response to your deionised water needs



Deionised water for Laboratories & Healthcare

The White Range



Ion exchange resin Cylinders

The **AQUADEM®** White range of deionisers has been developed for use in laboratories and healthcare environments. The range comprises seven different sized cylinders containing several capacities of mixed-bed ion exchange resins. The deionisers ensure optimum retention of mineral salts dissolved in the supply feed water, so as to provide deionised water of very high quality. Whatever your variations in consumption and your application, **AQUADEM** guarantees to help you choose the right sized deioniser for your application and feed water quality and to arrange your installation.

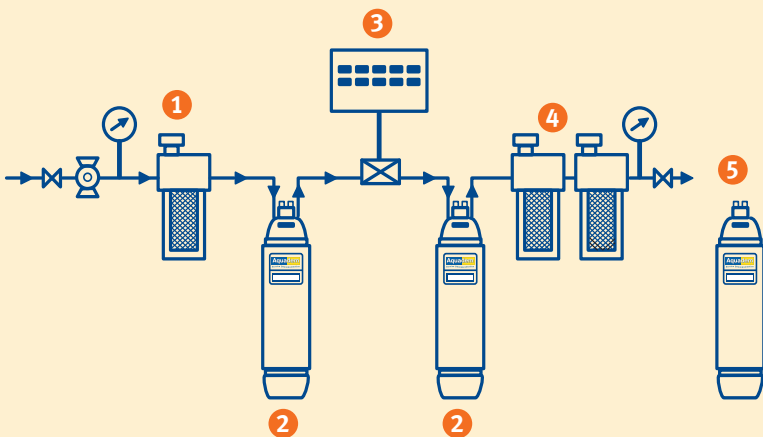
Each system is studied to ensure you obtain optimal and cost-effective operation.

Deionised Water: the simple and effective solution

The most common **AQUADEM** installation includes two cylinders installed in series (plus one stand-by) with an upstream filter, an on-line water quality meter, downstream filtration and all the pipework necessary for connection. See opposite the Filter Panels for simplifying your standard installation. For special applications **AQUADEM** can also offer a selection of ancillary technologies (eg UV, heat-exchanger, distribution and controls, etc.) to exactly match your needs.



Optional version with absolute 0.22 µ sterilising filtration



The deioniser's output resistivity will be between 10 and 18 MΩ.cm. The deionised water production from the White deioniser range will be from 80 to 1500 litres per hour. Higher flow rates and production capacities are available with the Blue Range of more industrial sized, skid-mounted deionisers.

Don't hesitate to contact your local **AQUADEM Service Centre**.

- 1 Upstream filtration (5-10 µ)
- 2 Duplex deioniser cylinders
- 3 Water quality meter
- 4 Downstream filtration (1-0.2 µ)
- 5 Stand-by deioniser cylinder

Technical Specifications

Each deioniser is equipped with a choice of standard, interchangeable top heads. Two versions are available:

- A classic top head suitable for connection to most pipework diameters.
- A specific top head suitable for adding a resistivity meter.

TECHNICAL CHARACTERISTICS

Parameters	Eo8o	E1oo	E2oo	E3oo	E5oo	E6oo	E1ooo
Volume of resin (l)	8	8	14	22	43	60	94
Exchange capacity (*F.m ³)	16	16	28	44	86	120	188
Recommended operating output (l/hr)	80	80	150	250	450	600	1500
Recommended operating pressure (bar)	3	3	3	3	3	3	3
Dimensions							
Diameter (mm)	140	205	205	254	254	345	345
Height (mm)	730	450	655	660	1170	960	1330
Dry weight (kg)	11	11	17	25	45	65	110

THEORETICAL EXCHANGE CYCLE AS A FUNCTION OF FEED WATER

Total Mineralisation	Eo8o	E1oo	E2oo	E3oo	E5oo	E6oo	E1ooo
10°F	1400	1400	2500	3900	7700	10800	17000
20°F	700	700	1200	1900	3800	5400	8400
30°F	400	400	800	1300	2500	3600	5600
40°F	300	300	600	900	1900	2700	4200
50°F	200	200	500	700	1500	2100	3300

Simple to install... Convenient to Use

AQUADEM® has designed a range of compact Filter Panels to go with its range of White deionisers. They incorporate tidily within a robust wall-mounted frame all of the upstream and downstream filter cartridges needed to achieve a deionised water of optimal quality.

The **complete panel** includes a flow adjustment valve, a feed pressure regulator, upstream and downstream pressure gauges, manually operated valves fitted at the two outlets, the upstream and downstream filters, and a water quality meter with a 2-digit display and a LED for the alarm threshold.

Upstream and downstream filter cartridges can be supplied and if necessary changed by our service technician as part of the **AQUADEM SDI Service**.

DESCRIPTION	PMEFP 210	EFP 220GD	PMEFP 310
Upstream Filtration			
Filter body (no. - dimensions)	1 - 10"	1 - 20"	1 - 10"
Mixed filter, 5 µ + CA	10"	20"	10"
Downstream Filtration			
Filter body (no. - dimensions)	1 - 10"	1 - 20"	2 - 10"
1 µ filter	10"	20"	10"
0.22 µ filter	-	-	10"
Functional Data			
Power supply	220V - 50Hz	220V - 50Hz	220V - 50Hz
Input/output connection	R 3 / 4"	R 3 / 4"	R 3 / 4"
Dimensions L x D x H (mm)	663 x 173 x 310	755 x 225 x 650	784 x 173 x 310



EFP series mounted Filter Panel

Guaranteed Cylinder Exchange Service



AQUADEM SDI the Demineralised Water Service

AQUADEM offers you maintenance contracts to fit each installation. Contact us for your special requests.

AQUADEM® prides itself on the efficiency of its customer service !

Its **Demineralised Water Service (SDI)** is based on a culture, built up over 30 years, of reacting promptly to the collection of your exhausted deioniser cylinders and the simultaneous delivery of replacement cylinders containing **freshly regenerated ion exchange resins**.

A network of **Regeneration Stations** and **Filling Centres** in Europe, SE Asia and Latin America, provide the resin treatment technology. Each batch of resins is subjected to a **Quality Control** in the form of a 5 parameters performance chart recording the regeneration cycle. **AQUADEM's** resin traceability quality assurance is widely appreciated especially by scientists in research labs, and operators involved in healthcare products and services.

'SOS Demin'

In an emergency... temporarily... during a breakdown or during a maintenance shutdown period you may need more deionised water for a short time without a heavy capital plant outlay... **this is when you should call in the AQUADEM 'SOS Demin Service' !**



Local service teams at **AQUADEM Service Centres** in many countries will provide you with a **prompt and efficient door-to-door delivery and exchange service**.

Count on your local **AQUADEM** team to look after your deioniser system and maintain, economically, the flow of your deionised water...

Contact your nearest AQUADEM SDI Service Centre:

Global SDI Advice Centre:	Tel +33 1 40 83 65 00	Fax +33 1 40 83 64 50
Argentina:	Tel +54 11 4523 7006	Fax +54 11 4523 7012
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Belgium:	Tel +32 81 25 5050	Fax +32 81 23 0779
Brazil:	Tel +55 11 5062 9070	Fax +55 11 5062 3502
Denmark:	Tel +45 4345 1676	Fax +45 4345 3524
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