



Service Deionization (SDI)

WATER TECHNOLOGIES

Service Deionization (SDI)

Guarantee of constant supply of high quality water



Activated Carbon

Remove effectivity

- Total Organic Carbon
- Chlorine
- Odor
- Color
- Micro pollutants



Cation Deionizers

Remove positively charged dissolved ionic contaminant

- Calcium
- Sodium
- Magnesium
- Potassium
- Iron
- Manganese



Anion Deionizers

Remove negatively charged dissolved ionic contaminant

- Carbonate
- Bicarbonate
- Sulfate
- Chlorides
- Nitrates
- Silica
- Organics



Mixed bed Deionizer

Provide higher water quality, enhance Silica, ion removal & TOC reduction



MOFI

An extremely versatile ion exchange system which can be utilised with different ion-exchange resins to meet a variety of applications for better water quality.

Commonly deployed after reverse osmosis.

Associated Service Range

- High velocity rinse of UPW resin
- Emergency services (SOS Water)
- Installation of standard column system & distribution loop
- Standby equipment and DI supply to facilitate maintenance & eliminate loss of production time
- On site resin re-bedding

Benefits

- Reliability
- Minimal system installation
- Minimum capital investment
- No chemical on site
- Easy maintenance
- Flexibility
- Rental / sales basis



Access to added Value services

Optimize your resources

SDI classification

		MB16 (white)	MB17 (beige)	MB18 (silver)
DI Quality	Resistivity* (megOhm-cm on line 25°C)	>16	>17	>18
	Silica (SiO ₂)(ppb)	NA	NA	≤5
	TOC (ppb)	NA	NA	≤5
Feed Water Requirement	Free chlorine (ppm)	<0.1	<0.1	NIL
	Turbidity	<1	<1	NIL
	Pre-treatment	RO	RO	DI
	Pressure (PSI)	<90	<90	<90
	Temperature (°C)	<30	<30	<30

VWT Column - Technical Specifications*

Models	VWS94	Activated Carbon	MOFI
Diameter & height (Inch)	12x52	12x52	42W*49D*90H
Volume (Ft ³)	3.3	3.3	42
Inlet/Outlet (Inch)	(3/4)" or 1"	(3/4)" or 1"	3" quick coupling
Dry weight (kg)	100	70	1350
Nominal flowrate (m ³ /hr)	2.27	2.27	27.26 [†]
Nominal flowrate (gpm)	10	10	100-150 [†]
Maximum Tested PSI (BAR)	80 (5.5)	80 (5.5)	80 (5.5)**

VWT is an abbreviation of Veolia Water Technologies

* Specification are for reference only and subject to the feed water quality.

** Higher pressure needs can be considered on "case by case" basis.

† Higher flow rate needs can be considered on "case by case" basis with increased resin / dimension.

In accordance with Veolia Water Technologies's policy of continual improvement, we reserve the right to amend product specifications in this document at any time without prior notice.

Resin Pre-conditioning

Meet your water specifications instantaneously & improve your performance by using pre-rinsed resin while maintaining the production of your plant.

- Easy Start-up
- Optimize operating costs
- Lower usage of DI rinsing water
- Avoid risk of manufacturing disruption
- Buy-back resin option available

Ideal for microelectronics / photovoltaics and aerospace industries

SDI standard package

For long-term cost effectiveness and continuous production of high water quality (up 18Ω), Veolia Water Technologies offers new standard SDI skid-mounted systems designed for 5, 10 or 20 gpm production requirements including integrated monitoring & control systems.

- Control of water parameters including performance data report
- Support of local team for maintenance & replacement of spare parts & consumables
- Quick return on investment & optimized life cycle of the system
- Modular technological solutions
- Monthly report



Buy back of polishing resin

Guarantee of constant supply of high quality water

Option to buy back your polishing mixed-bed resin

- Free disposal service
- Maximize saving for new resin purchases

Emergency services & temporary solutions

Cost effective services in case of emergency of increase of production without incurring additional capital expenditure.

Veolia Water Technologies' innovative solutions include RO technology combined with SDI expertise to provide high grade of DI water without generation of wastewater.



Mobile Water Services containerized RO mobile unit more than 40m³/hr capacity

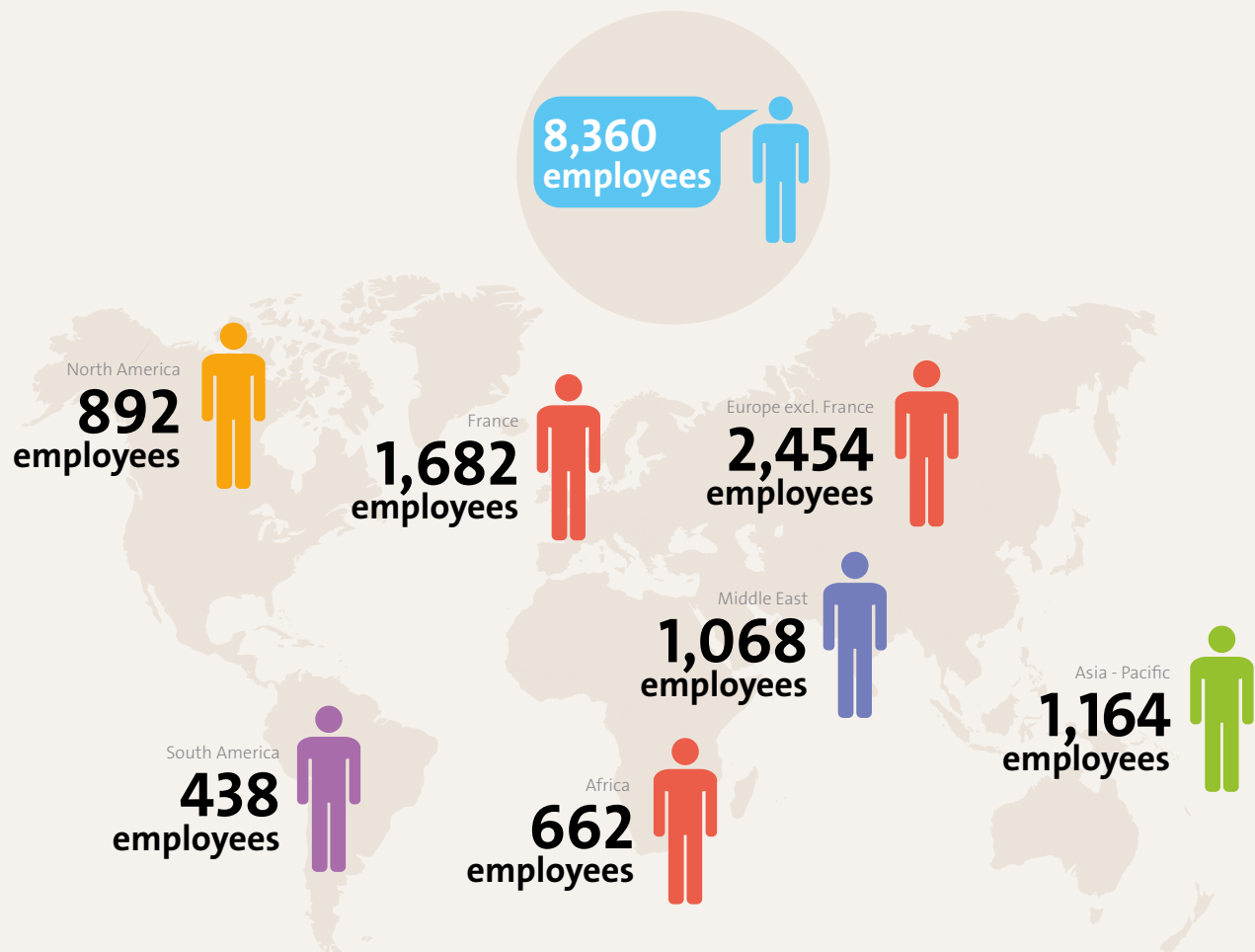
About Veolia Water Technologies

Veolia Water Technologies specializes in technological solutions, provides the complete range of services required to design, deliver, maintain and upgrade water and wastewater treatment facilities for industrial clients and public authorities.

Our portfolio features everything from online diagnostic solutions to evaporation and crystallization, energy-producing sludge treatment, state-of-the-art desalination, laboratory-grade water and mobile water services.

Our experts deliver the water treatment solutions that improve the quality of people's lives in communities around the world. The performance of these installations depends on the creativity and commitment of our more than 8,360 employees.

Our global expertise is within your reach through extensive local technical support adapted to local regulatory requirements and market needs.



DRINKING WATER



WASTEWATER



SLUDGE



REUSE



DESALINATION



ODOR

Our Product Range and Facilities

Product Range



Resin in IBC



Various range of 94L columns



Ultra-pure resin in MOFI

One trip per exchange

Our centralised stock holding enables us to offer quick and easy delivery to meet your timescales.

By using our route planning technology and own dedicated fleet, we can make just one trip per exchange – supplying and taking away at the same time.

You are welcome to visit our high tech regeneration facility, which is one of the largest of its type in Asia, for site tours, training seminars and factory inspection visits.



A sustainable and environmentally friendly service

As part of Veolia, the world's largest environmental company, we are always striving to reduce our impact on the environment. Our SDI service is structured and centrally managed to achieve maximum recyclability and sustainability.

- 98% of ion exchange resins used in SDI cylinders are recycled
- Spent resins are incinerated to produce electricity, saving on fossil fuels and landfill
- We use energy efficient inverter driven pumps in our regeneration facility



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