

Mobile Water Solutions



VEOLIA
Water Services





Mobile Water Services

Safeguarding the production of your purified water

Veolia Water Technologies has developed Mobile Water Services through years of experience in industrial water treatment, allowing our clients to focus more efficiently on their core business.



Mobile Water Services offers mobile solutions including modular treatment plants, for industries with short, mid or long term purified water needs.

- Planned and temporary maintenance work
- Commissioning and Decommissioning of facilities
- Emergency response
- Delays in the delivery of new systems
- Peak demand coverage
- Variations in feed water quality

Benefits:

- 24 hours, 365 days of the year
- Rapid response across territory
- Pure water quality to $<0.1 \mu\text{S}/\text{cm}$ and $<20 \text{ ppb}$ Silica
- In-market off-site regeneration stations
- Localised European fleet
- Flow rates $1\text{-}400 \text{ m}^3/\text{h}$
- Diverse application base
- Stringent Health & Safety standards
- Technical expertise



Mobile Water Services

To suit your application need

Water Pre-Treatment

Mobile Clarification, **Filtration** and **Activated Carbon** – solutions to treat potable, borehole, surface or sea water:

- ACTIFLO™
- MOFI™



APPLICATIONS

- Suspended solids and colloid removal
- Removal of heavy metals (iron, lead, cadmium, zinc)
- Manganese and nitrate reduction
- Chlorine removal
- Organic pesticides and COD reduction
- Recycling of treated wastewater
- Sea water conditioning

Benefits of Mobile Water Services

- Compact
- Designed for low and high capacity flowrates
- Continuous or intermittent production

Water Softening

Mobile automatic or manual **Softening** solutions.

- MOFI™
- MOSO™



APPLICATIONS

- Filling low pressure heating and cooling tower circuits
- Filling low pressure boilers
- Pre-treatment for reverse osmosis
- Food & Beverage applications

Benefits of Mobile Water Services

- Simple process
- No chemical handling
- Cost effective solution



Demineralised Water Quality

Mobile **Reverse Osmosis, Ion Exchange Exchange, De-ionisation and Evaporation**

- MORO™
- MODI™
- Evaporators (vacuum, mechanical vapour recompression)



APPLICATIONS

- Large range of water qualities
- Ultra pure water conditioning
- Production of low quality deionised water (surface treatment, painting)
- Sea water desalination
- Final treatment after DI plant
- Colloid silica reduction

Benefits of Mobile Water Services

- No regeneration required
- High capacity
- Continuous production
- Cleaning-in-Place (CIP)

Mobile Water Services

By quantity and quality of water

Pure Water Quality

SMALL AND MEDIUM CAPACITY

Mobile **Reverse Osmosis and Mixed Polishing** solutions to produce pure water:

MOFI™
MORO™ & MOFI™

HIGH CAPACITY PLANTS

Mobile **Reverse Osmosis and Ion Exchange Demineralisation** solutions to meet the most challenging qualities and quantities of treated water:

MODI™
MORO™ & MODI™



APPLICATIONS

- Water quality from 0.02 µS/cm to 0.08 µS/cm
- Filling of medium pressure boilers
- Injection water for gas turbines
- Production of high quality demineralised water
- Removal dissolved silica
- Pharmaceutical applications
- High pressure boilers (coal, nuclear, combined cycles)
- Commissioning for power industry

Benefits of Mobile Water Services

- Two streams per MODI (Duplex-configuration)
- Zero discharge
- Minimal chemical handling

Ultra pure Water Quality

Mobile Reverse Osmosis, Ion Exchange Demineralisation and Final Polishing units to produce high resistivity Water quality with low Silica content and Sodium (< 2 ppb).



APPLICATIONS

- Water Quality up to 0.08 µS/cm
- Filling of high pressure boilers
- Filling of cooling circuits for nuclear plants
- Critical process applications

Benefits of Mobile Water Services

- High capacity

...Technological Capabilities

Mobile Water Services Flexible offerings

Anytime Anywhere

Veolia Water Technologies offers Mobile Water Services to industries using purified water for their production lines or utilities.

This pan-European service constitutes a large fleet of mobile water treatment units that may be deployed as stand-alone units or combined to form complete systems using proven and up-to-date water purification technologies.



MODULAR

- Skid mounted systems
- Containers
- Trailers



PROVEN

- Clarification
- Filtration
- Activated Carbon
- Softening
- Reverse Osmosis
- Demineralisation
- Ion Exchange polishing



EMERGENCY RENTAL

Continuity of the production cycle is essential. In case of emergency, a trailer or container will be on site in less than 24 hours.

A Mobile Water Services services engineer will operate the equipment if required. Based on a comprehensive onsite survey, Mobile Water Services can anticipate your needs in the event of water treatment plant failure, and develop a React site response pack which ensures that your water is treated securely and quickly.



PLANNED TEMPORARY HIRE

Planned temporary Mobile Water Services are typically used for new plant commissioning applications such as:

- Steam Blowing
- Chemical Filling
- Hydro Testing
- Boiler flush & fill
- Condenser Cleaning
- Pipe Cleaning
- Low Oxygen Requirement
- Condensate Polishing
- Start Ups and Shut Downs

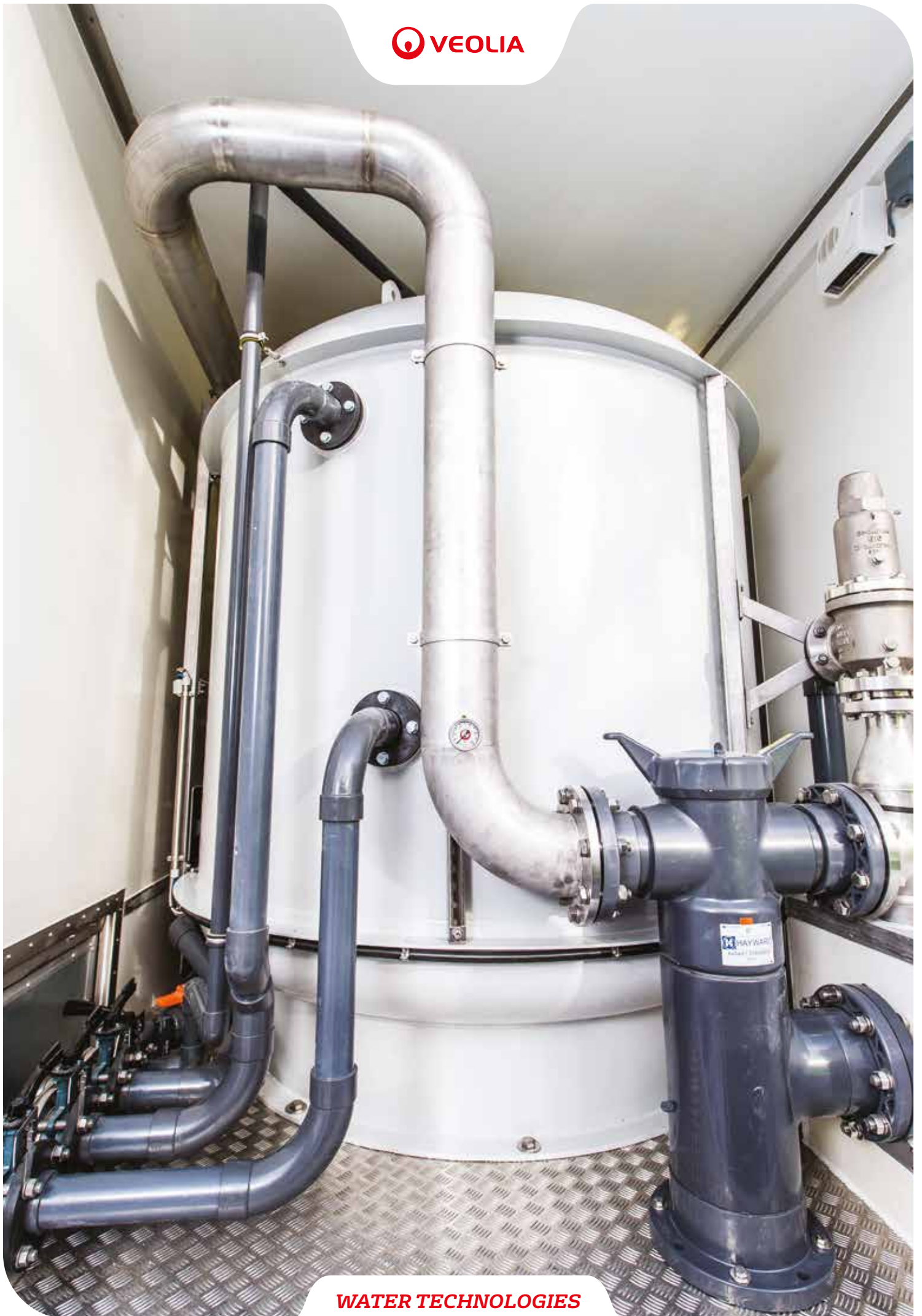
Operation & maintenance: Once installed and commissioned our local service engineer will visit your site regularly to ensure that the unit is operating correctly, chemical supplies are topped up, filters are replaced.

Full time on-site operators (including nights and weekends if required) can be provided at the customer's request.

LONG TERM CONTRACT

Thanks to our full on-site service, temporary hire contracts can move to long term (up to 3 years)







Resourcing the world

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