

MobileFlow*

water treatment system

SUEZ offers the world's largest fleet of mobile water treatment systems, providing demineralisation, filtration, softening, and deoxygenation treatment, quickly and efficiently – available for either emergency, supplemental, or extended term service.

All aspects of treatment, from system analysis and design through installation, maintenance, upgrades and emergency response are available. Included are immediate system backup, complete analytical laboratory, application and engineering consultants, qualified Field Service Representatives (FSR's), regional service centres and a 24-hour dispatch and control centre.

description and use

ASME code steel Each MobileFlow system contains six rubber-lined tanks of uniform size, with a patented piping system to allow operation in series or parallel. The system can be operated by FSR's, your plant personnel or remotely monitored. Automatic shutdown features protect from power failure, excess pressure and off-specification water. Regional service centres perform regeneration quality control checks on every unit. Demineralisation treatment is available in as little as two hours plus transit time. Other special applications may require additional time.

typical applications

- Filter Media**
- Mixed Bed Resin**
- DEOX Media**
- Strong Based Anion Resin**
- Cation Resin**



Find a contact near you by visiting www.suezwatertechnologies.com and clicking on "Contact Us."

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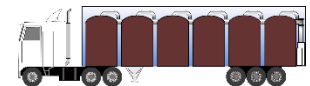


Demineralisation

Premium 10% cross-linked cation resins and porous Type I strong base anion resins are standard in custom loading of the MobileFlow system.

Regeneration of ion exchange resins at service centres provides the highest conversions for economical production of ultra pure water. A proprietary rinse is used on the selected resins to prevent any residual QC test water from remaining in the trailer when it is delivered to the user. Off-site resin regeneration gives the customer the use of a true zero discharge system.

Formalised resin purchase specifications include specific test procedures and quality limits to ensure that the products are free of manufacturing impurities, and can meet the most stringent specifications.

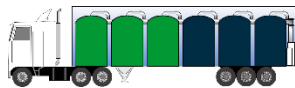


Filtration

SUEZ stands alone in filtration capability, having pioneered in-line coagulation for the mobile water treatment industry. The MobileFlow system takes advantage of a proprietary dual media filter that is treated with a biocide, acid, and hot water after each use to protect against cross-contamination from various surface water sources.

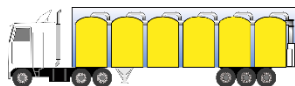
We guarantee the effluent quality for influents up to 50 NTU and the system can also treat water up to 100 NTU. Treatment flow rates are dependent upon the influent turbidity values. Typically, flow rates up to 136 m³/hr per trailer are possible with influent values of less than 10 NTU.

Deoxygenation



Our patented DEOX* process provides a water quality of less than 1 ppb dissolved-oxygen, with 0.5 ppb typically measured. Clients in the pulp and paper, petrochemical, refinery, and utility industries have benefited by our capability to deoxygenate water from virtually any source, including municipal, well, raw surface water, condensate, and demineralised water. This service is readily available on an emergency basis, and is also typically utilised during by-pass of the client's deaerator for inspections and repairs.

Softening



The MobileFlow system provides softening at high flow rates, routinely producing water at 136 m³/hr, and can be reconfigured to produce 227 m³/hr per trailer. Mobile and quickly available, this application can be provided with either exchange service off-site regeneration or on-site regeneration. A MobileFlow unit has a softening capacity in excess of 975,000 grams.

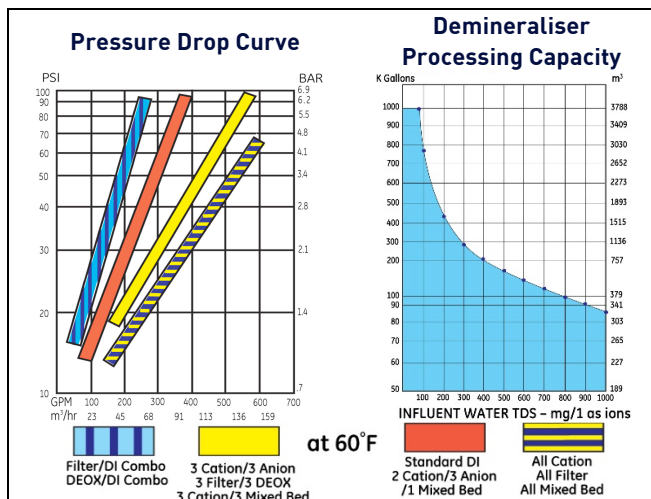
Condensate Polishing



Utilising a cation/mixed bed configuration, condensate can be polished to remove crud loading and trace ionic contaminants during unit start-ups or for longer-term requirements. The 10% cross-linked cation resin is strong enough to withstand aggressive temperatures and crud loads of the condensate while keeping the mixed bed resins clean for final ionic contaminant removal without interference.

general properties

The MobileFlow system incorporates an exclusive piping system linking six rubber-lined ASME code pressure vessels. The international version (shown overleaf) has three axels and the North America version has two axels.



International version

Dimensions and weights

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|--------------------------------|-----------|
| Overall length with tractor | 16.5m |
| Trailer length | 13.2m |
| Trailer height | 4m |
| Trailer width | 2.6m |
| Gross trailer operating weight | 41,000 kg |

Electrical

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| Electrical power requirements | 220/240V, 20 amps |
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Specifications

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| Inlet/outlet connections | 4" 150 psi flange or 100 mm 1-inlet, 1-outlet |
| Pressure vessels | 6 per trailer, ASME code, 100 psi (7 bar) W.P., rubber lined |
| Resin capacity | 325,000 grams (Demineralisation) |
| Outlet resin trap | 8" with suitable mesh element |
| Suitable media | Ion exchange resins, synthetic adsorbents, activated carbon, granular filter media, etc. |

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| Instrumentation | <ul style="list-style-type: none"> • Two conductivity meters, with alarms • High/Low temperature alarms • Complete pressure instrumentation • Rate of flow indicator • Totalising flow meter |
|-----------------|---|

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|----------|---|
| Controls | <ul style="list-style-type: none"> • Adjustable pressure reducing valve on inlet • Isolation valves on all pressure vessels • Automatic shutdown system • External audible alarms |
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| Heating | Electrical tube heaters |
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further information

For further information about the services provided by SUEZ please call the main number or visit www.suezwatertechnologies.com.

24-hour emergency numbers

EU Free phone: +800 4300 0043

Other Countries: +44 (0)1733 394555