

MobileFlow* demineralizer

description and use

SUEZ offers the world's largest fleet of mobile water treatment systems, providing demineralization, 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 centers, and a 24-hour dispatch and control center.

The MobileFlow is housed in a standard 40' ISO shipping container. 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 centers perform regeneration quality control checks on every unit. Demineralization treatment is available in as little as two hours plus transit time. Other special applications may require additional time.

typical applications

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 centers 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 container when it is delivered to the user. Off-site

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

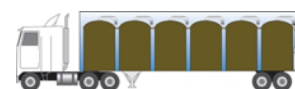
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- Filter Media
- Mixed Bed Resin
- DEOX Media
- Strong Base Anion Resin
- Cation Resin

resin regeneration gives the customer the use of a true zero discharge system.

Formalized 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.

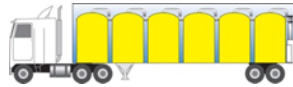
We guarantee the effluent quality for influents up to 50 NTU and the system can also treat water up to 100 NTU. Treatment flow rates are dependent upon the influent turbidity values. Typically, flow rates up to 135 kL/hour per container are possible with influent values of less than 10 NTU.



Deoxygenation

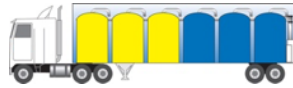
Our patented DEOX* process provides a water quality of less than 1 ppb dissolved oxygen, with 0.5 ppb typically measured. Clients in the pulp and paper, petrochemical, refinery, and utility industries have benefited by our capability to deoxygenate water from virtually any source, including municipal, well, raw surface water, condensate, and demineralized water. This service is readily available on an emergency

basis, and is also typically used 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 135 kL/hour, and can be reconfigured to produce 225 kL/hour per container. 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 15 million grains.

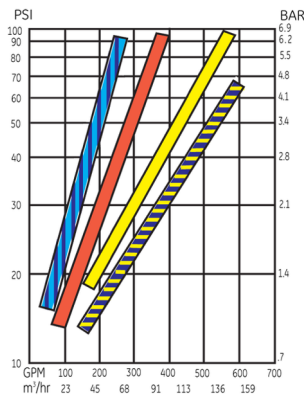


Condensate Polishing

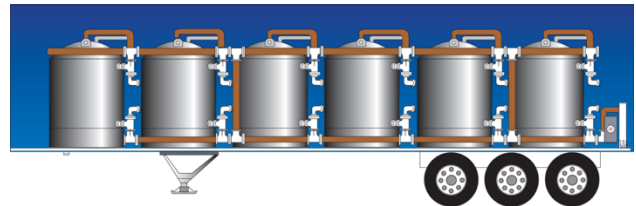
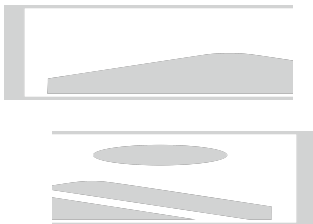
Utilising a cation/mixed bed configuration, condensate can be polished to remove crud loading and trace ionic contaminants during unit start-ups or for longer-term requirements. The 10% cross-linked cation resin is strong enough to withstand aggressive temperatures and crud loads of the condensate while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

general properties

MobileFlow Pressure Drop at 16°C



Demineralizer Capacity



The MobileFlow system incorporates an exclusive piping system linking six rubber-lined ASME code pressure vessels. The international version is housed in a Standard 40' ISO shipping container (EMEA trailer version shown).

Dimensions and weights

| | |
|------------------|---|
| Container length | 12.2 m |
| Container height | 2.9 m |
| Container width | 2.6 m |
| Container weight | 25,400 kg shipping weight 39,000 kg operating weight |

Electrical

| | |
|-------------------------------|-----------|
| Electrical power requirements | 240V, 15A |
|-------------------------------|-----------|

Specifications

| | |
|--------------------------|---|
| Inlet/outlet connections | 4" ANSI 150# flange |
| Resin capacity | Over 5 million grains (Demineralization) |
| Outlet resin trap | 8" with suitable mesh element |
| Suitable media | Ion exchange resins, synthetic adsorbents, activated carbon, granular filter media, etc. |
| Instrumentation | <ul style="list-style-type: none"> Two conductivity meters, one with strip chart recorder and alarm or telog recorder, with alarm High/Low temperature alarms Complete pressure instrumentation Rate of flow indicator Totalizing flow meter |
| 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 |

further information

For more about the Emergency and other services please call number below:

Australia toll free 1800 064 140 or visit www.suezwatertechnologies.com

