

MFD_R200

Mobile Filtration Device Recycling 200 l/min

WATER RECYCLING

MFD_R200

Performance:	12m ³ /h (up to, stepless adjustment)
Recycling/Discharge	selectable
Recycling-Mode:	Sand filter - Bag filter 1µm (nominal)
Discharge-Mode:	Bypass of the filter units
pH-value Neutralisation:	CO ₂ (for alkaline wastewater)
pH-value Monitoring	Data recording
Container:	20' (ISO, Storage, LxWxH, 6,058m x 2,438m x 2,591m)
Electrical connections:	3x400V / 50Hz / 32A
Electric Power:	8 kW
Weight:	5.000 kg
Process Interfaces:	Wastewater tank / Clear water storage tank



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MOBILE WASTEWATER TREATMENT

Reprotex: Unique Technology

Reprotex is the leading company for mobile wastewater treatment with a particular USP: Our system is able to handle a wide range of highly diverse wastewater qualities coming from different water jetting applications.

As the result of the Reprotex-treatment You can either reuse the recycled water in Your UHP-pump, or drain it environmentally friendly (sewage system/back to nature).

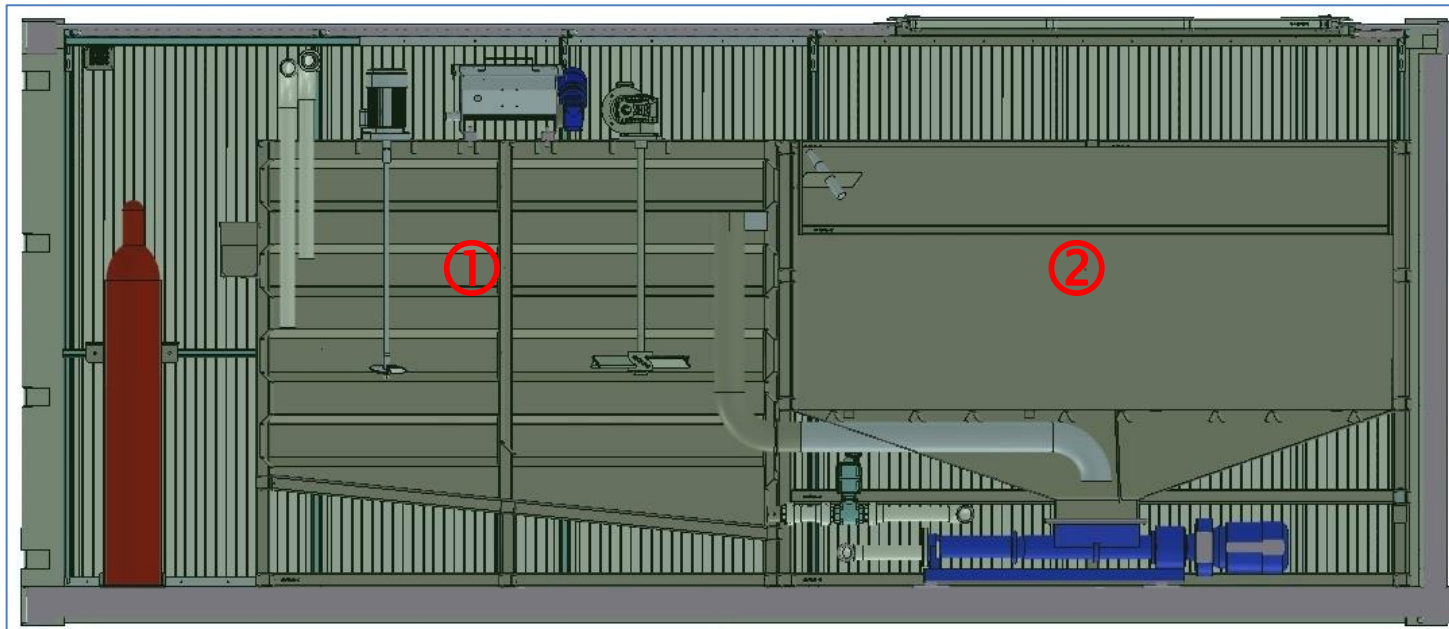
Our fully electronic controlled system operates automatically and provides needs-based reports on flow rate, turbidity and pH-value.



Process

Wastewater after jetting-operations is pumped from an external collection tank into the container-based treatment device. In a first treatment step the wastewater is mixed with a flocculation agent in order to accelerate the separation- process of suspended solids in the lamella clarifier. Following this, there are further two fine-filtration units (sand filter and textile-filter), which ensure the result particle-size <math>< 1\mu\text{m}</math>.

An integrated digital sensor monitors permanently the pH-value and ensures automatically neutralisation by using CO_2 , if necessary. Thus release of water in accordance with legislation in terms of pH-value (pH 6,5 to 9) can be guaranteed.



In the case of chemical pollutants Reprotex can be combined with additional wastewater treatment technologies (e.g. oil-separator, active carbon, ion-exchanger).

Applications:

- Surface preparation
- Hydrodemolition
- Tunnel cleaning
- Road marking removal
- Skid resistance restoring
- Tank maintenance
- Industrial cleaning
- Off-shore
- Building deconstruction
- Facade maintenance

Advantages

- Cost savings (water/mud/logistic)
- Flexibility and mobility/simple logistic
- Easy to operate
- Innovative technology
- Water management in conformity with law



The precipitation and flocculation agents used in the Reprotex-process have been developed from VTA Austria GmbH and agreed jointly.



Main components

- ① Reaction tank (flocculation/agglomeration)
- ② Lamella clarifier (sedimentation)
- ③ Intermediate tank
- ④ Filtration unit
- ⑤ Control cabinet and PLC

