

# Dual-Technology Trailer

## Mobile oilfield water treatment and reuse unit

### APPLICATIONS

- Onsite produced or flowback water treatment
- Oil, water, and solids separation
- Oil and suspended solids removal (polishing)
- Treatment for oilfield water disposal and reuse in well completions
- Pit water treatment

### BENEFITS

- Provides alternative to sourcing freshwater for well completions
- Delivers up to 17,000 bbl/d of frac-grade water\*
- Limits oilfield water disposal volumes
- Enables multiple water treatment process configurations at a production site
- Requires only minimal personnel to operate

### FEATURES

- Voraxial\* impeller-induced cyclonics
- Media filtration vessels
- Chemical injection skid
- Feed pump

The Schlumberger dual-technology (DT) trailer is a mobile unit that treats produced and flowback water, delivering up to 17,000 bbl/d of frac-grade water. The DT trailer separates oil, water, and solids with a Voraxial cyclonics 4000 and then either directs the effluent to a flocculating and settling tank or sends it through a media filter for polishing to remove oil and suspended solids.

The combination of two key water treatment processes in a mobile unit enables more flexibility for accommodating multiple water treatment configurations at a production site. Plus, the unit is fully automated, requiring minimal personnel for operation.

### Effective separation of water, oil, and suspended solids

Voraxial cyclonics uses a unique no-shear, nonclogging impeller to induce radial and axial flow for three-way separation of water, oil, and solids. This simultaneous separation during continuous flow means that only one pass is required through the unit, and there is no associated pressure drop.

### Oil and suspended solids removal

Two filtration vessels accommodate a variety of media, including nutshell filters, sand, or MYCELX® RE-GEN media. Water chemistry is analyzed prior to deployment of the DT trailer to select the most performant media for your operation.

### How it works

The feed pump runs oilfield water through the DT trailer at 50-psi gauge pressure. Oil, water, and solids are separated using a Voraxial cyclonics 4000 and then the effluent is either directed to a flocculating and settling tank or sent through a media filtration vessel for polishing to remove oil and suspended solids. Multiple injection quills along the chemical injection skid effectively feed chemicals to the flow at the most optimal point.

### Specifications

Model	Dual-Technology Trailer
Dimensions, ft	53 × 8.5 × 13.5
Dry weight with tractor, lbm	78,778
Dry weight without tractor, lbm	96,778
Operating weight, lbm	101,490
Flow rate, bbl/d	17,000
Feed pump gauge pressure rating, psi	50
System integration	Data transfer via Ethernet, WiFi, or edge computing
Electrical	480 V, 3 phase, 60 Hz, 100 amp

Model	Voraxial Cyclonics 4000
Inlet flow range, galUS/min	100–500
Min. inlet gauge pressure, psi	20
Design gauge pressure, <sup>†</sup> psi	100
Design temperature, <sup>‡</sup> degF	140
Operating gauge pressure, psi	100
Operating temperature, degF	100
Internals	316 stainless steel low-shear, open-rotor assembly
Power	50 hp, 460 V, 3 phase
Bearings	Ceramic ball type

<sup>†</sup> Can be equipped for gauge pressure rating capability up to 250 psi

<sup>‡</sup> Can be equipped for operating temperature capability up to 250 degF

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[slb.com/water-treatment](http://slb.com/water-treatment)

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