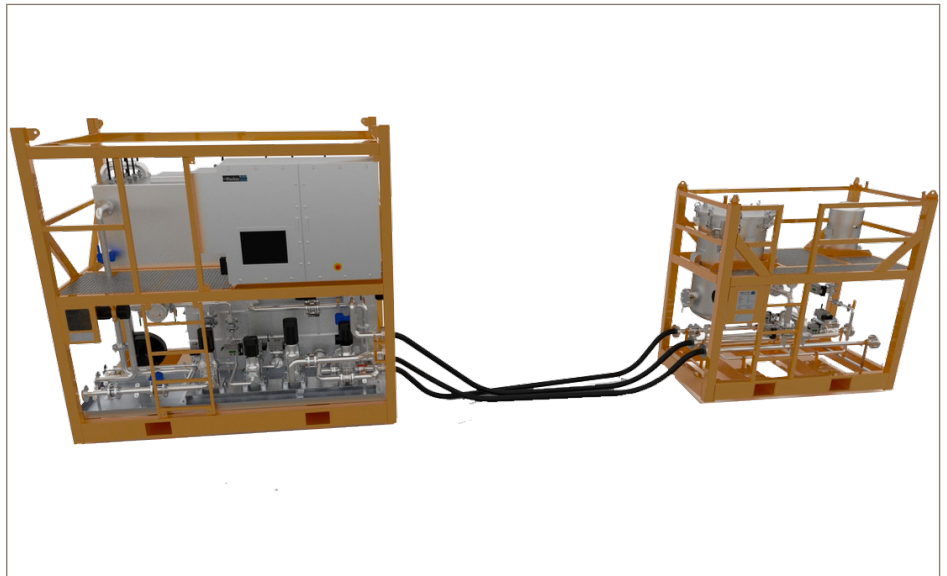


# TwinZapp

The solution for separating  
(chemical) emulsions.



Emulsified water does not easily separate under the influence of gravity and time (Stokes' Law). TwinZapp is a new field-tested process which treats emulsified water. In an offshore environment the challenges multiply as time, footprint and manpower are restricted. The TwinZapp solution consists of a three stage process Stage 1: Electro Oxidation (Elox), using multiple pairs of electrodes. Stage 2: Separation, where the emulsion is broken. Stage 3: Polishing, where further hydrocarbon removal occurs and typically 5 to 10 ppm is achieved through either a Media Filter or a Dual Vessel Cartridge Unit.



## Contact Information

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## Benefits

- No chemicals or absorption cartridges required
- Mobile system that allows work on platforms and work-over projects
- 40-50% reduction of dissolved fraction (BTEX)
- Connections SS316L unions fig. 100 fitted with o-ring for easy and 100% leak-proof sealing
- New electric design
- Small footprint
- Longer lasting interfield pipelines
- Easily installed, operator friendly
- Low maintenance
- Also available as rental unit

## Options

- Sensor system to fully automatic unit
- Offshore support crew available
- Field lab testing possibilities

## Applications

- Produced water (gas)
- Bilge and slop water
- Run off water
- Well testing
- Frac flow back
- Corrosion inhibitor
- Foam lift
- Methanol upset
- Mud chemicals



ENGINEERING YOUR SUCCESS.

# TwinZapp

## SPECIFICATIONS

### Filter Construction

#### Material Frame

- Carbon Steel
- Powder Coated

#### Material Wetted Parts

- SS316L

#### Design Code Frame

- DNV 2.7-1 / EN 12079

#### Explosion Proof

- ATEX Compliance Zone II

#### Control System

- Electrical / PLC, 380V AC, 3 ph

#### Utility Consumption

- <5 Nm<sup>3</sup> instrument or work air at (6 bar)
- 5-15 kW

### Operating Conditions

#### Maximum Water Temperature

- 120°F (50°C)

#### Operating Pressure

- Atmospheric

#### Outlet Pressure

- Atmospheric to 43.5 psi (3 bar)

#### Flow Rate

- 100-300 bbl/hr (5-15 m<sup>3</sup>/hr)

#### Cleaning Flow

- Typically 98% of total flow rate

### 1<sup>ST</sup> STEP: ELOX

Electrical destabilisation of the emulsion.



### 2<sup>ND</sup> STEP: SEPARATION

Skimming tank for bulk separation of oil / water.

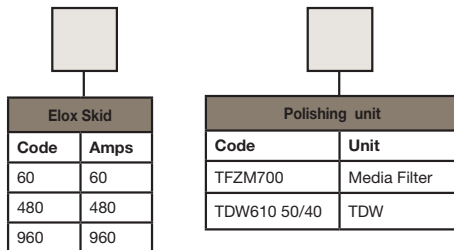


### 3<sup>RD</sup> STEP: POLISHING

Fine filtration for last traces of oil by a Media Filter or Dual Vessel Cartridge Unit.

## Article description

### TFZ



Specifications are subject to change without notification.  
For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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