

DATA SHEET

OriginClear P1000

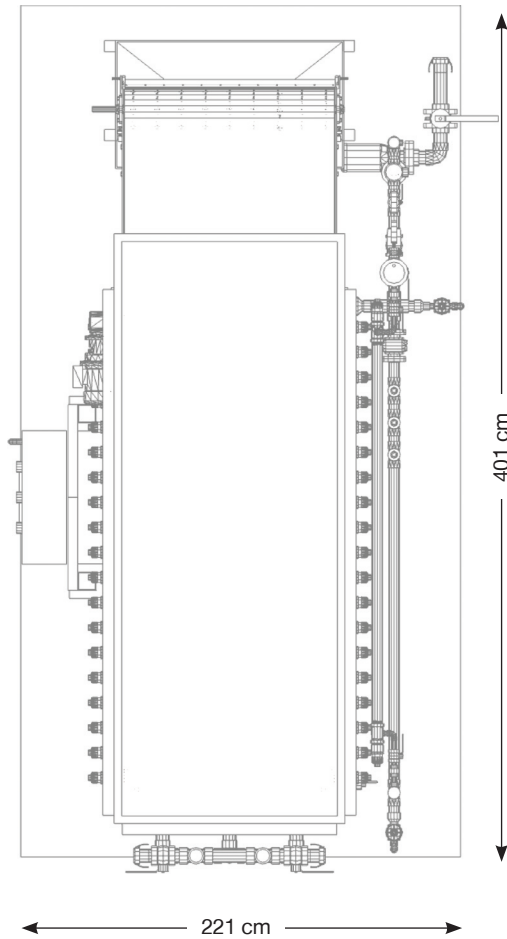
OriginClear™ Petro is powered by OriginOil's proprietary Electro Water Separation (EWS), a primarily chemical-free technology that uses inline electro-coagulation, electro-oxidation and electro-floitation to remove the bulk of visible contaminants from the waste stream.

In addition to removing up to 99.9% of all free and emulsified oil, and 99.5% of suspended solids from oil & gas wastewater, OriginClear Petro can also remove certain dissolved contaminants that will co-precipitate, and disinfect bacteria.

OriginClear Petro is a turnkey single-skid system that includes an intelligent power supply, a self-cleaning filter for heavy solids removal on the front end, electro-oxidation reactors, and a polishing system on the back end all in a single product.

All systems include a common SCADA control system with touch screen which will allow automatic control of the process as well as remote monitoring and alarms.

OriginOil and its regional partners are making OriginClear Petro available to customers such as: E&P operators, service companies, disposal well operators and water treatment companies.

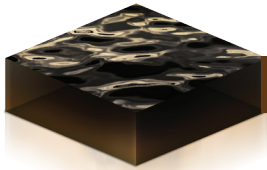


Technical Data

MECHANICAL CONSTRUCTION		
Dimensions	Length 401 cm, Width 221 cm, Height 127cm (L 13' 2" W 7'3', H 4' 2')	
Dry Weight	~500 kg (1200 pounds)	
Operating Weight	~ 2060 kg (4500 pounds)	
POWER SUPPLY		
Electrical Requirements	200-240V 3-Phased, 50/60 hertz	200A
Specific Energy Consumption	Approximately 0.7kWh per m3	



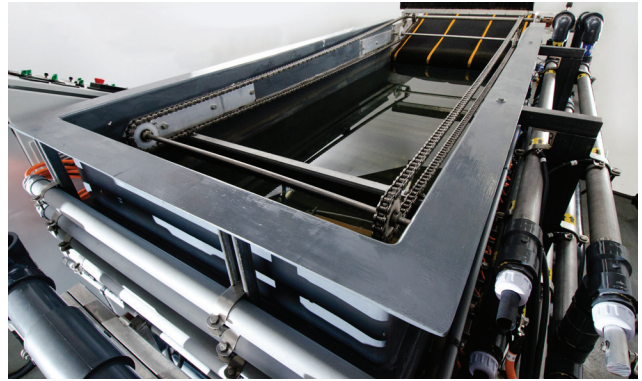
Breakthrough water cleanup technology for oil & gas, algae and other water-intensive industries



Performance Results

In the Monterey Shale, third party lab results confirmed that OriginClear Petro reduced all measures of non-soluble contamination to very low, or undetectable levels, including:

- Turbidity removal of as much as 99.96%
- Total Petroleum Hydrocarbon removal as much as 97%
- Total Suspended Solids removal by as much as 97%
- Biological oxygen demand reduced by 71%



Features

- Targeted removal of dispersed oil and suspended solids
- Able to treat soluble and non-soluble hydrocarbons
- Fully integrated system with onboard automated control and remote access
- Ideal upfront treatment or customer tailored
- Downstream polishing such as media or membrane filtration

Benefits

- Continuous, primarily non-chemical, low-energy process
- Modular system capable for easy delivery and setup
- Instrumentation and control system
- Remote access for data monitoring or system control
- Available for lease on pay per barrel format
- Water quality and system capacity covered by performance warranty

Demonstrations

A system capable of processing up to 250 barrels per day (bpd) is now available for demonstrations in the field in North America.

Influent Parameters

OriginClear Petro is designed for operation within a range of influent specifications for pH, temperature, salinity and other factors. During the initial project evaluation process, OriginOil will fully characterize your influent quality.

Based on the site-specific water quality OriginOil will specify process adaptations such as pH modification, temperature control and other steps to ensure optimum operation, which in turn may affect operating costs.

In order to determine the right process train for your application, we recommend you start the specification process as soon as possible.

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oil & gas, algae and other water-intensive industries*

Patents Pending