

poseidon* gravity oil/water separators

industrial process water and wastewater treatment

- **PERFORMANCE AND SAVINGS**
High quality and modular oil/water separation
- **VARIETY OF MODELS AVAILABLE**
for client specific requirements: rectangular
flat-bottom, v-bottom, and vertical models.

poseidon* gravity oil/water separators
are prefabricated packaged units for
reduced installation costs made from
corrosion-resistant materials

proven technology to separate oil and solids from water

SUEZ uses proven technology to separate oil and solids from water based on the principle of Stoke's Law (contaminants' size and specific gravity). SUEZ's poseidon product line gravity oil/water separators (VOWS) are designed to meet strict industry standards and to facilitate compliance to environmental regulations.

Different stainless steel grades, such as 316L, Duplex 2205 and other corrosion-resistant materials are selected to fit the process needs. SUEZ's poseidon gravity oil/water separators are delivered as prefabricated packaged units allowing for reduced installation costs.

Self-supporting stainless steel covers are available where nitrogen blanketing is required to control VOC emissions. The covers include inspection ports and flanges for installing instrumentation and all the necessary safety devices. Tailor-made covers are also available to retrofit existing API oil/water separators.

API 421 Oil/Water Separators

Designed to API 421 specifications, poseidon rectangular oil/water separators are unique in that they are fabricated in stainless steel. This includes major components such as: oil/sludge flight collector system, chains and sprockets, bottom screw conveyor for sludge removal, rotary drum skimmer and slotted-pipe skimmer for oil removal.

The API 421 unit is also equipped with the necessary drains and steam nozzles for cleaning as well as taps for additional manual oil level monitoring.

Two basic API 421 designs are offered: a flat-bottom unit with flight and chain solids scrapers and a V-bottom unit with screws for settleable solids removal.



SUEZ's poseidon product line innovative V-shaped bottom API 421

Vertical Oil/Water Separators

SUEZ's poseidon vertical oil/water separators (VOWS) can be used in place of API 421 separators where space is limited. This is achieved by the units' compact vertical design providing a relatively small installed footprint. The units require minimal maintenance due to virtually no moving parts. The poseidon VOWS design is inspired from poseidon's well proven vertical Saturn* DAF/DNF units with hundreds of installations worldwide.

The benefits of the poseidon VOWS units are two-fold: a small installed footprint and no moving parts. Internal conical separation surfaces allow for the separation of smaller oil droplets, thereby minimizing the size of the unit. Heavy material settles to a single bottom outlet eliminating the need for internal moving mechanical parts.

The VOWS is also equipped with connections to fluidize the sludge with high pressure water or steam. A class 1 div 2 pilot unit is also available for on-site demonstration.



The poseidon VOWS is based on the well-proven poseidon Saturn DAF/DNF design.



VOWS pilot unit available for client trials.



SUEZ's poseidon product line API 421

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