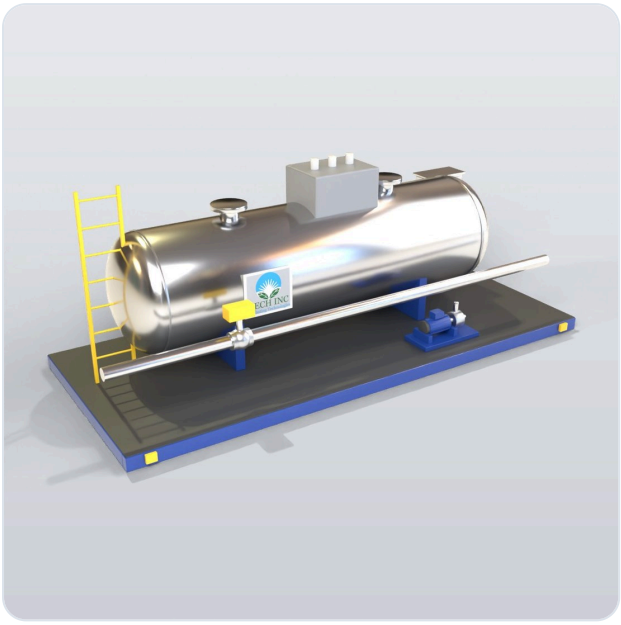
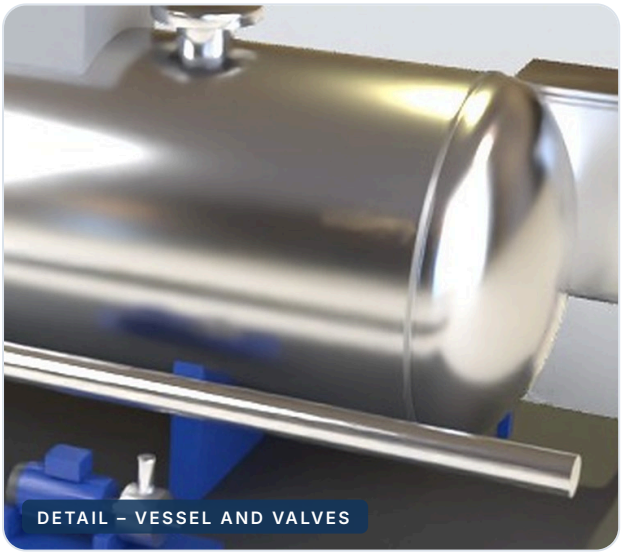
PRODUCT DATASHEET

Desalter Skid

Removes salt and water from crude oil





DETAIL – VESSEL AND VALVES

OVERVIEW

The Tech Inc. Desalter Skid is a package that removes salt and water from crude oil to protect downstream equipment from corrosion and fouling. Wash water dissolves the salt, and an electrostatic field coalesces the water droplets so they settle out with the salt. Field operators and small and modular refineries use it ahead of crude processing.

MODELS AND CONFIGURATIONS

- **Single-stage desalter** – one wash and coalescing stage for moderate salt content.
- **Two-stage desalter** – two stages in series for higher salt content or a tighter outlet target.
- **Electrostatic desalter** – an electric field coalesces the water droplets for faster separation.
- **Packaged dehydrator** – removes water from crude where dehydration is the main duty.

TYPICAL DESIGN DATA

Outlet salt	Typically below 10 PTB (pounds per thousand barrels), or to client specification
Stages	Single or two-stage, selected from the crude salt content and outlet target, or to client specification
Coalescer vessel	Electrostatic vessel with transformer, sized to the crude throughput, or to client specification
Wash water and mixing	Injection rate and mixing valve set to the crude properties, or to client specification
Effluent water	Routed to produced-water treatment, or to client specification

APPLICATIONS

Crude processing at fields, and small and modular refineries.

KEY ADVANTAGES

- **Corrosion and fouling protection** – salt removed before heating and distillation
- **Electrostatic coalescing** – faster water separation in a compact vessel
- **Controlled interface** – level and interface control keeps water out of the crude and oil out of the effluent
- **Skid-mounted** – built and tested in the factory, quick to install at a field or refinery
- **Effluent handled** – desalter water treated in a Tech Inc. produced water treatment package

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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