

Desalter Unit**Product Coding**
PXXXXXXXXX**Introduction**

Desalter unit is a critical upstream processing system used in crude oil treatment to remove inorganic salts, free water, and suspended solids prior to downstream refining operations. Proper desalting significantly improves crude quality, prevents corrosion and fouling in heaters and distillation columns, and extends the lifetime of downstream equipment. Our desalter packages are engineered and manufactured to meet stringent refinery operating conditions and international standards, providing reliable long term performance in onshore and offshore facilities.

Process Overview

Crude oil entering the desalter unit is first mixed with a controlled amount of wash water and demulsifying chemicals. This mixture passes through high efficiency mixing devices to promote intimate contact between crude and water, allowing salts and contaminants to dissolve into the aqueous phase. The mixture then flows into the desalter tower, where an electrostatic field or gravity separation system enhances coalescence of the dispersed water droplets. These enlarged droplets settle rapidly to the bottom of the vessel and are continuously removed as brine, while clean, desalted crude oil exits from the top of the tower and is routed to downstream heating and fractionation units.

Features

- Robust design in accordance with ASME Sec. VIII with corrosion resistant metallurgy.
- High efficiency inlet distributors and mixing internals for uniform flow distribution.
- Integrated electrostatic grid or enhanced gravity separation configuration.

- Optimized internals to minimize pressure drop and prevent emulsion carryover.
- Easy access manways and maintenance friendly layout.
- Skid mounted or modular package supply for rapid installation.

Applications

- Crude oil desalting and dehydration prior to atmospheric and vacuum distillation units.
- Protection of downstream equipment such as heat exchangers, furnaces, and catalytic reactors from corrosion and fouling.
- Removal of solids and salts in refinery revamp and capacity expansion projects.
- Use in onshore and offshore oil processing facilities, production terminals, and refinery feed preparation systems.



Tel.: +98 21 88686942-3
Fax: +98 21 88686168
Marketing@euroslotpars.com



www.euroslotpars.com
Linkedin.com/company/euroslotpars
Youtube.com/@euroslotpars2863



Office: No. 2, Unit 2, East 32nd
(East Qeysari) St., South Allameh Ave.,
Sa'adat Abad Area, Tehran, Iran