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Global Electrostatic Desalters Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electrostatic Desalters market size is expected to reach $ 2842 million by 2032, rising at a market growth of 9.9% CAGR during the forecast period (2026-2032). The global gross margin for electrostatic distributors is projected to be approximately 36.59% in 2025. Electrostatic desalters are primarily used to remove dissolved inorganic salts (such as NaCl, CaCl?, MgCl?, etc.) from crude oil to prevent pipeline corrosion, equipment damage, and catalyst poisoning in subsequent refining processes. Their working principle involves using a high-voltage electric field to cause salt ions to aggregate into water droplets, which are then separated to remove the salt from the crude oil. Focusing on salt removal, they are crucial for refinery pretreatment, export oil, hydrated oil export, and offshore oilfields, significantly impacting refining safety, equipment lifespan, and maintenance costs due to salt corrosion, scaling, and catalyst poisoning. Typical applications include: refinery feedstock pretreatment, export oil preparation, offshore oilfield desalination, and heavy/high-salinity crude oil treatment. Commonly used electric field structures are alternating current (AC) or AC/DC composite electric fields to accommodate different crude oil conductivity and salinity. The structure is typically horizontal or vertical, with refineries and onshore facilities tending towards horizontal structures (for higher throughput); while offshore platforms or space-constrained scenarios often use vertical/modular/skid structures. Integrated desalination and dehydration equipment combines desalination and dehydration functions, completing both processes within a single unit through integrated design. It is suitable for complex crude oils with both high water and high salt content, simultaneously removing both water and salt, thus improving equipment efficiency. It is particularly suitable for scenarios with high water + high salt + complex crude oils (such as offshore/deep-sea/emulsified oil/heavy oil). It saves space and simplifies modular transportation, making it very friendly to offshore/FPSO/modular projects. For refineries and export oil fields where both salt and water standards must be met simultaneously, it

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is the most practical, economical, and efficient solution. It is usually equipped with a composite electric field to provide higher separation efficiency and adaptability. The structure is mostly modular or customized vertical/horizontal, tailored to the specific project requirements. Typical application scenarios: offshore/deep-sea/FPSO projects, heavy oil/high-salinity/high-water/emulsified oil fields, refinery pretreatment + export oil/gathering and transportation systems, and old oilfield upgrade/renovation projects. Typical downstream customers include large domestic and international petrochemical companies such as Sinopec, PetroChina, CNOOC, Yulong Petrochemical, Oriental Shenghong, Rongsheng Petrochemical, and Jingbo Holding Group, as well as international companies such as ADNOC (Abu Dhabi National Oil Company), KPC (Kuwait Oil Company), Qatar Energy, and Petrobras.
Market Trends:From 'Single Function' to 'Intelligent Integration': With the popularization of intelligent and information technologies, downstream customers are increasingly demanding intelligent and digital functions from equipment. Remote monitoring of production and manufacturing through equipment upgrades, enabling rapid problem identification and resolution, has become one of the development directions for energy and chemical equipment. Especially in oilfield extraction, refining, and chemical processing, the introduction of intelligent equipment can significantly improve production efficiency, reduce manual intervention, lower equipment failure rates, and enhance safety. Based on current market demand, dehydration and desalination equipment technology will shift from single-function to intelligent integration. Intelligent control systems can automatically adjust operating parameters such as electric field strength, temperature, and pressure, achieving real-time optimization of equipment operation, reducing manual intervention, and improving operational efficiency. Remote monitoring and intelligent sensing systems can monitor equipment status in real time, quickly identify and resolve operational problems, and improve the overall reliability and safety of the equipment. In addition, more and more digital and information technologies are being adopted in energy equipment.Modularization, Skid-mounted, and Integrated Trends: The state has proposed that refining and chemical equipment will develop towards large-scale operations in the future, and the pace of upgrading and transformation is accelerating. The rise of emerging chemical industries and the trend towards larger-scale equipment are both significantly increasing the demand for energy and chemical equipment. my country is undergoing structural adjustments, achieving integrated refining and chemical production, actively developing high-end refining products, and realizing the technological innovation and transformation and upgrading of petroleum and petrochemical equipment. Simultaneously, due to the continuous improvement of industry technology levels, production processes, and performance requirements, as well as the strengthening of globalization, the scale effect in downstream industries is becoming more pronounced, leading to increasingly higher

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demands for equipment integration. To effectively control procurement and management costs, downstream enterprises are also inclined to choose large-scale, modular, and specialized equipment. In the future, equipment will develop towards modularization, skid-mounted design, and integration. Many companies have begun to provide customers with integrated multi-functional system solutions (such as crude oil dehydration and desalination, stabilization treatment, and external metering). The National Energy Administration and the petrochemical industry plan propose that future refining capacity will exceed 900 million tons per year. This development has driven the demand for large-scale, integrated dehydration and desalination equipment, especially in the development of complex oil fields and offshore oil fields.High efficiency, energy conservation, and green development: Under the 'dual carbon' background, a series of support policies for energy-saving and emission-reduction technologies and equipment have been promulgated, aiming to promote industrial technological innovation and upgrading. With the continuous strengthening of energy conservation and emission reduction efforts in downstream industries such as petrochemicals, marine engineering, and new energy, high-efficiency energy chemical equipment and new energy equipment will have a larger market. Equipment manufacturers are gradually incorporating green and low-carbon technologies into product design to reduce energy consumption and carbon emissions. For example, the application of variable frequency control and waste heat recovery technologies in dehydration and desalination equipment will significantly improve energy efficiency and reduce the carbon footprint.The replacement cycle for electrostatic precipitators (ESPs) is approximately 10-15 years. With the implementation of integrated refining and chemical policies and the introduction of equipment replacement policies, this cycle will be further shortened. On the one hand, the proportion of high-salt and high-water-content crude oil in global new crude oil production is increasing, leading to increasingly diversified crude oil supply and increasingly deteriorating crude oil quality. This necessitates further enhancements in the adaptability of ESPs to inferior crude oil and their resistance to fluctuations in feedstock properties.

This report studies the global Electrostatic Desalters demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electrostatic Desalters, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electrostatic Desalters that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electrostatic Desalters total market, 2021-2032, (USD Million)

Global Electrostatic Desalters total market by region & country, CAGR, 2021-2032,

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(USD Million)
U.S. VS China: Electrostatic Desalters total market, key domestic companies, and share, (USD Million)
Global Electrostatic Desalters revenue by player, revenue and market share 2021-2026, (USD Million)
Global Electrostatic Desalters total market by Type, CAGR, 2021-2032, (USD Million)
Global Electrostatic Desalters total market by Application, CAGR, 2021-2032, (USD Million)
This report profiles major players in the global Electrostatic Desalters market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SLB, Axens, AMR Process Limited, CECO Environmental (Peerless), Forum Energy Technologies, Desalters LLC, Plug Power (Frames Group), VME Process, Santacc, Zhengyuan Petrochemical, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Electrostatic Desalters market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global Electrostatic Desalters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Electrostatic Desalters Market, Segmentation by Type:

Equipment Hardware

Technical Services

Global Electrostatic Desalters Market, Segmentation by Equipment:

Electrostatic Desalination Equipment

Integrated Dehydration and Desalination Equipment

Global Electrostatic Desalters Market, Segmentation by Electric Field:

AC Alternating Current Electric Field

AC+DC Combined Electric Field

Multi-level Combined Electric Field System

Global Electrostatic Desalters Market, Segmentation by Application:

Oilfield Production

Gathering and Transportation System

Refinery Pretreatment

Other

Companies Profiled:

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SLB

Axens

AMR Process Limited

CECO Environmental (Peerless)

Forum Energy Technologies

Desalters LLC

Plug Power (Frames Group)

VME Process

Santacc

Zhengyuan Petrochemical

Jiangsu Golden Gate Energy & Equipment Co., Ltd.

Key Questions Answered

1. How big is the global Electrostatic Desalters market?
2. What is the demand of the global Electrostatic Desalters market?
3. What is the year over year growth of the global Electrostatic Desalters market?
4. What is the total value of the global Electrostatic Desalters market?
5. Who are the Major Players in the global Electrostatic Desalters market?
6. What are the growth factors driving the market demand?

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Contents

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8 MARKET ANALYSIS BY APPLICATION

9 COMPANY PROFILES

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10 INDUSTRY CHAIN ANALYSIS

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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