

Global Electrodialysis Equipment Market Size, Manufacturers, Opportunities and Forecast to 2030

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Abstracts

Electrodialysis (ED) is used in seawater desalination to produce salt, food, pharmaceutical, laboratory and recycling environments and others fields. ED is a Laboratory membrane separation process in which ions are transported through ion-permeable membranes, from one stream to another, under the influence of a voltage potential gradient. Two types of membranes are used: cationic-exchange membranes only allow cations to transport, and anion-exchange membranes only allow anions through. These membranes are impermeable to liquids. A large number of alternating cation and anion-exchange membranes are assembled to form diluate and concentrate compartments in what is known as an electrodialysis stack.

Electrodialysis (ED) is used to transport salt ions from one solution through ion-exchange membranes to another solution under the influence of an applied electric potential difference. This is done in a configuration called an electrodialysis cell. The cell consists of a feed (dilute) compartment and a concentrate (brine) compartment formed by an anion exchange membrane and a cation exchange membrane placed between two electrodes. In almost all practical electrodialysis processes, multiple electrodialysis cells are arranged into a configuration called an electrodialysis with alternating anion and cation exchange membranes forming the multiple electrodialysis cells.

According to APO Research, The global Electrodialysis Equipment market was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

Global Electrodialysis Equipment key players include Evoqua Water Technologies LLC, GE Water & Process Technologies, EURODIA, etc. Global top three manufacturers hold a share about 30%.

Europe is the largest market, with a share over 20%, followed by United States and China, both have a share over 35 percent.

In terms of product, Continuous Electrodialysis is the largest segment, with a share over 55%. And in terms of application, the largest application is Seawater Desalination, followed by Foods/Pharmaceutical, Recycling Environments, Laboratory, etc.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Electrodialysis Equipment, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Electrodialysis Equipment.

The Electrodialysis Equipment market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Electrodialysis Equipment market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

PCCell GmbH

Evoqua Water Technologies LLC

GE Water & Process Technologies

C-Tech Innovation Ltd

ASTOM

AGC ENGINEERING

FuMA-Tech

Hangzhou Iontech Environmental Technology Co

EURODIA

Saltworks Technologies Inc

Electrosynthesis Company

WGM Sistemas

Doromil

Innovative Enterprise

Shandong Tianwei Membrane Technology

Electrodialysis Equipment segment by Type

Continuous Electrodialysis

Batch Electrodialysis

Electrodialysis Equipment segment by Application

Seawater Desalination

Foods/Pharmaceutical

Recycling Environments

Laboratory

Others

Electrodialysis Equipment Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Electrodialysis Equipment market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Electrodialysis Equipment and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Electrodialysis Equipment.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Detailed analysis of Electrodialysis Equipment manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of Electrodialysis Equipment in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Electrodialysis Equipment Market Size Estimates and Forecasts (2019-2030)
 - 1.2.2 Global Electrodialysis Equipment Sales Estimates and Forecasts (2019-2030)
- 1.3 Electrodialysis Equipment Market by Type
 - 1.3.1 Continuous Electrodialysis
 - 1.3.2 Batch Electrodialysis
- 1.4 Global Electrodialysis Equipment Market Size by Type
 - 1.4.1 Global Electrodialysis Equipment Market Size Overview by Type (2019-2030)
 - 1.4.2 Global Electrodialysis Equipment Historic Market Size Review by Type (2019-2024)
 - 1.4.3 Global Electrodialysis Equipment Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
 - 1.5.1 North America Electrodialysis Equipment Sales Breakdown by Type (2019-2024)
 - 1.5.2 Europe Electrodialysis Equipment Sales Breakdown by Type (2019-2024)
 - 1.5.3 Asia-Pacific Electrodialysis Equipment Sales Breakdown by Type (2019-2024)
 - 1.5.4 Latin America Electrodialysis Equipment Sales Breakdown by Type (2019-2024)
 - 1.5.5 Middle East and Africa Electrodialysis Equipment Sales Breakdown by Type (2019-2024)

2 GLOBAL MARKET DYNAMICS

- 2.1 Electrodialysis Equipment Industry Trends
- 2.2 Electrodialysis Equipment Industry Drivers
- 2.3 Electrodialysis Equipment Industry Opportunities and Challenges
- 2.4 Electrodialysis Equipment Industry Restraints

3 MARKET COMPETITIVE LANDSCAPE BY COMPANY

- 3.1 Global Top Players by Electrodialysis Equipment Revenue (2019-2024)
- 3.2 Global Top Players by Electrodialysis Equipment Sales (2019-2024)
- 3.3 Global Top Players by Electrodialysis Equipment Price (2019-2024)
- 3.4 Global Electrodialysis Equipment Industry Company Ranking, 2022 VS 2023 VS 2024

- 3.5 Global Electrodialysis Equipment Key Company Manufacturing Sites & Headquarters
- 3.6 Global Electrodialysis Equipment Company, Product Type & Application
- 3.7 Global Electrodialysis Equipment Company Commercialization Time
- 3.8 Market Competitive Analysis
 - 3.8.1 Global Electrodialysis Equipment Market CR5 and HHI
 - 3.8.2 Global Top 5 and 10 Electrodialysis Equipment Players Market Share by Revenue in 2023
 - 3.8.3 2023 Electrodialysis Equipment Tier 1, Tier 2, and Tier

4 ELECTRODIALYSIS EQUIPMENT REGIONAL STATUS AND OUTLOOK

- 4.1 Global Electrodialysis Equipment Market Size and CAGR by Region: 2019 VS 2023 VS 2030
- 4.2 Global Electrodialysis Equipment Historic Market Size by Region
 - 4.2.1 Global Electrodialysis Equipment Sales in Volume by Region (2019-2024)
 - 4.2.2 Global Electrodialysis Equipment Sales in Value by Region (2019-2024)
 - 4.2.3 Global Electrodialysis Equipment Sales (Volume & Value), Price and Gross Margin (2019-2024)
- 4.3 Global Electrodialysis Equipment Forecasted Market Size by Region
 - 4.3.1 Global Electrodialysis Equipment Sales in Volume by Region (2025-2030)
 - 4.3.2 Global Electrodialysis Equipment Sales in Value by Region (2025-2030)
 - 4.3.3 Global Electrodialysis Equipment Sales (Volume & Value), Price and Gross Margin (2025-2030)

5 ELECTRODIALYSIS EQUIPMENT BY APPLICATION

- 5.1 Electrodialysis Equipment Market by Application
 - 5.1.1 Seawater Desalination
 - 5.1.2 Foods/Pharmaceutical
 - 5.1.3 Recycling Environments
 - 5.1.4 Laboratory
 - 5.1.5 Others
- 5.2 Global Electrodialysis Equipment Market Size by Application
 - 5.2.1 Global Electrodialysis Equipment Market Size Overview by Application (2019-2030)
 - 5.2.2 Global Electrodialysis Equipment Historic Market Size Review by Application (2019-2024)
 - 5.2.3 Global Electrodialysis Equipment Forecasted Market Size by Application

(2025-2030)

5.3 Key Regions Market Size by Application

5.3.1 North America Electrodialysis Equipment Sales Breakdown by Application

(2019-2024)

5.3.2 Europe Electrodialysis Equipment Sales Breakdown by Application (2019-2024)

5.3.3 Asia-Pacific Electrodialysis Equipment Sales Breakdown by Application

(2019-2024)

5.3.4 Latin America Electrodialysis Equipment Sales Breakdown by Application

(2019-2024)

5.3.5 Middle East and Africa Electrodialysis Equipment Sales Breakdown by Application (2019-2024)

6 COMPANY PROFILES

6.1 PCCell GmbH

6.1.1 PCCell GmbH Company Information

6.1.2 PCCell GmbH Business Overview

6.1.3 PCCell GmbH Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.1.4 PCCell GmbH Electrodialysis Equipment Product Portfolio

6.1.5 PCCell GmbH Recent Developments

6.2 Evoqua Water Technologies LLC

6.2.1 Evoqua Water Technologies LLC Company Information

6.2.2 Evoqua Water Technologies LLC Business Overview

6.2.3 Evoqua Water Technologies LLC Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.2.4 Evoqua Water Technologies LLC Electrodialysis Equipment Product Portfolio

6.2.5 Evoqua Water Technologies LLC Recent Developments

6.3 GE Water & Process Technologies

6.3.1 GE Water & Process Technologies Company Information

6.3.2 GE Water & Process Technologies Business Overview

6.3.3 GE Water & Process Technologies Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.3.4 GE Water & Process Technologies Electrodialysis Equipment Product Portfolio

6.3.5 GE Water & Process Technologies Recent Developments

6.4 C-Tech Innovation Ltd

6.4.1 C-Tech Innovation Ltd Company Information

6.4.2 C-Tech Innovation Ltd Business Overview

6.4.3 C-Tech Innovation Ltd Electrodialysis Equipment Sales, Revenue and Gross

Margin (2019-2024)

6.4.4 C-Tech Innovation Ltd Electrodialysis Equipment Product Portfolio

6.4.5 C-Tech Innovation Ltd Recent Developments

6.5 ASTOM

6.5.1 ASTOM Company Information

6.5.2 ASTOM Business Overview

6.5.3 ASTOM Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.5.4 ASTOM Electrodialysis Equipment Product Portfolio

6.5.5 ASTOM Recent Developments

6.6 AGC ENGINEERING

6.6.1 AGC ENGINEERING Company Information

6.6.2 AGC ENGINEERING Business Overview

6.6.3 AGC ENGINEERING Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.6.4 AGC ENGINEERING Electrodialysis Equipment Product Portfolio

6.6.5 AGC ENGINEERING Recent Developments

6.7 FuMA-Tech

6.7.1 FuMA-Tech Company Information

6.7.2 FuMA-Tech Business Overview

6.7.3 FuMA-Tech Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.7.4 FuMA-Tech Electrodialysis Equipment Product Portfolio

6.7.5 FuMA-Tech Recent Developments

6.8 Hangzhou Iontech Environmental Technology Co

6.8.1 Hangzhou Iontech Environmental Technology Co Company Information

6.8.2 Hangzhou Iontech Environmental Technology Co Business Overview

6.8.3 Hangzhou Iontech Environmental Technology Co Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.8.4 Hangzhou Iontech Environmental Technology Co Electrodialysis Equipment Product Portfolio

6.8.5 Hangzhou Iontech Environmental Technology Co Recent Developments

6.9 EURODIA

6.9.1 EURODIA Company Information

6.9.2 EURODIA Business Overview

6.9.3 EURODIA Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.9.4 EURODIA Electrodialysis Equipment Product Portfolio

6.9.5 EURODIA Recent Developments

6.10 Saltworks Technologies Inc

6.10.1 Saltworks Technologies Inc Company Information

6.10.2 Saltworks Technologies Inc Business Overview

6.10.3 Saltworks Technologies Inc Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.10.4 Saltworks Technologies Inc Electrodialysis Equipment Product Portfolio

6.10.5 Saltworks Technologies Inc Recent Developments

6.11 Electrosynthesis Company

6.11.1 Electrosynthesis Company Company Information

6.11.2 Electrosynthesis Company Business Overview

6.11.3 Electrosynthesis Company Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.11.4 Electrosynthesis Company Electrodialysis Equipment Product Portfolio

6.11.5 Electrosynthesis Company Recent Developments

6.12 WGM Sistemas

6.12.1 WGM Sistemas Company Information

6.12.2 WGM Sistemas Business Overview

6.12.3 WGM Sistemas Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.12.4 WGM Sistemas Electrodialysis Equipment Product Portfolio

6.12.5 WGM Sistemas Recent Developments

6.13 Doromil

6.13.1 Doromil Company Information

6.13.2 Doromil Business Overview

6.13.3 Doromil Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.13.4 Doromil Electrodialysis Equipment Product Portfolio

6.13.5 Doromil Recent Developments

6.14 Innovative Enterprise

6.14.1 Innovative Enterprise Company Information

6.14.2 Innovative Enterprise Business Overview

6.14.3 Innovative Enterprise Electrodialysis Equipment Sales, Revenue and Gross Margin (2019-2024)

6.14.4 Innovative Enterprise Electrodialysis Equipment Product Portfolio

6.14.5 Innovative Enterprise Recent Developments

6.15 Shandong Tianwei Membrane Technology

6.15.1 Shandong Tianwei Membrane Technology Company Information

6.15.2 Shandong Tianwei Membrane Technology Business Overview

6.15.3 Shandong Tianwei Membrane Technology Electrodialysis Equipment Sales,

Revenue and Gross Margin (2019-2024)

6.15.4 Shandong Tianwei Membrane Technology Electrodialysis Equipment Product Portfolio

6.15.5 Shandong Tianwei Membrane Technology Recent Developments

7 NORTH AMERICA BY COUNTRY

7.1 North America Electrodialysis Equipment Sales by Country

7.1.1 North America Electrodialysis Equipment Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.1.2 North America Electrodialysis Equipment Sales by Country (2019-2024)

7.1.3 North America Electrodialysis Equipment Sales Forecast by Country (2025-2030)

7.2 North America Electrodialysis Equipment Market Size by Country

7.2.1 North America Electrodialysis Equipment Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America Electrodialysis Equipment Market Size by Country (2019-2024)

7.2.3 North America Electrodialysis Equipment Market Size Forecast by Country (2025-2030)

8 EUROPE BY COUNTRY

8.1 Europe Electrodialysis Equipment Sales by Country

8.1.1 Europe Electrodialysis Equipment Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe Electrodialysis Equipment Sales by Country (2019-2024)

8.1.3 Europe Electrodialysis Equipment Sales Forecast by Country (2025-2030)

8.2 Europe Electrodialysis Equipment Market Size by Country

8.2.1 Europe Electrodialysis Equipment Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe Electrodialysis Equipment Market Size by Country (2019-2024)

8.2.3 Europe Electrodialysis Equipment Market Size Forecast by Country (2025-2030)

9 ASIA-PACIFIC BY COUNTRY

9.1 Asia-Pacific Electrodialysis Equipment Sales by Country

9.1.1 Asia-Pacific Electrodialysis Equipment Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific Electrodialysis Equipment Sales by Country (2019-2024)

9.1.3 Asia-Pacific Electrodialysis Equipment Sales Forecast by Country (2025-2030)

9.2 Asia-Pacific Electrolysis Equipment Market Size by Country

9.2.1 Asia-Pacific Electrolysis Equipment Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Electrolysis Equipment Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Electrolysis Equipment Market Size Forecast by Country (2025-2030)

10 LATIN AMERICA BY COUNTRY

10.1 Latin America Electrolysis Equipment Sales by Country

10.1.1 Latin America Electrolysis Equipment Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.1.2 Latin America Electrolysis Equipment Sales by Country (2019-2024)

10.1.3 Latin America Electrolysis Equipment Sales Forecast by Country (2025-2030)

10.2 Latin America Electrolysis Equipment Market Size by Country

10.2.1 Latin America Electrolysis Equipment Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2.2 Latin America Electrolysis Equipment Market Size by Country (2019-2024)

10.2.3 Latin America Electrolysis Equipment Market Size Forecast by Country (2025-2030)

11 MIDDLE EAST AND AFRICA BY COUNTRY

11.1 Middle East and Africa Electrolysis Equipment Sales by Country

11.1.1 Middle East and Africa Electrolysis Equipment Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.1.2 Middle East and Africa Electrolysis Equipment Sales by Country (2019-2024)

11.1.3 Middle East and Africa Electrolysis Equipment Sales Forecast by Country (2025-2030)

11.2 Middle East and Africa Electrolysis Equipment Market Size by Country

11.2.1 Middle East and Africa Electrolysis Equipment Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2.2 Middle East and Africa Electrolysis Equipment Market Size by Country (2019-2024)

11.2.3 Middle East and Africa Electrolysis Equipment Market Size Forecast by Country (2025-2030)

12 VALUE CHAIN AND SALES CHANNELS ANALYSIS

- 12.1 Electrolysis Equipment Value Chain Analysis
 - 12.1.1 Electrolysis Equipment Key Raw Materials
 - 12.1.2 Key Raw Materials Price
 - 12.1.3 Raw Materials Key Suppliers
 - 12.1.4 Manufacturing Cost Structure
 - 12.1.5 Electrolysis Equipment Production Mode & Process
- 12.2 Electrolysis Equipment Sales Channels Analysis
 - 12.2.1 Direct Comparison with Distribution Share
 - 12.2.2 Electrolysis Equipment Distributors
 - 12.2.3 Electrolysis Equipment Customers

13 CONCLUDING INSIGHTS

14 APPENDIX

- 14.1 Reasons for Doing This Study
- 14.2 Research Methodology
- 14.3 Research Process
- 14.4 Authors List of This Report
- 14.5 Data Source
 - 14.5.1 Secondary Sources
 - 14.5.2 Primary Sources
- 14.6 Disclaimer

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