

Hollow Fiber Ultrafiltration Market by Type (Polymeric, Ceramic, Hybrid,), Application (Municipal, Industrial (Pharmaceutical, Chemicals, Oil and Gas)), Region-Global Forecast to 2029

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Abstracts

The hollow fiber ultrafiltration market size is projected to rise from USD 2.08 billion in 2024 to USD 4.21 billion by 2029, at a CAGR of 15.2% during the forecast period. The global demand for hollow fiber ultrafiltration is on rise as it effectively removes contaminants such as fungi, viruses, and bacteria from the water ensuring safe water for drinking. The applications of hollow fiber ultrafiltration are applicable in various industries such as food & beverage, pharmaceutical and oil & gas. Hollow fiber ultrafiltration is also used for metal manufacturing for treating processed water as it effectively removes suspended solids, colloids, and microorganisms. This process ensures companies comply with environmental regulations and reduces the environmental impact of their operations.

“PS & PES is projected to be the second largest sub segment by type in terms of value under Polymeric segment.”

PES (Polyethersulfone) owns exceptional properties such as thermal stability, mechanical strength, high flux and chemical resistance that is why it is known to be a high-performance thermoplastic polymer. In hollow fiber ultrafiltration systems, PES is used as the support layer which provides great structural stability to the membrane and facilitates permeate flow. This support layer that is porous in nature allows solvents to pass through it and retains the active layer that performs the separation. The high compaction resistance property of PS (polysulfone) makes it a better material to use under high-pressure conditions. It is stable in aqueous acids and bases and many non-polar solvents; however, it is soluble in dichloromethane and methyl pyrrolidone.

“Food & Beverage accounted for the third largest share in the application sub segment of hollow fiber ultrafiltration market in terms of value under Industrial segment.”

The food & beverage industry is very competitive and dynamic in nature. In past few years there has been an increase in awareness regarding health amongst humans. Due to this they demand high quality products which are safe and nutritious. Therefore utilizing the right membrane filtration solutions to accomplish these goals is necessary. In this sector utilizing membranes has become a necessity as it helps in manufacturing milk, cheese and whey proteins. Utilizing efficient membrane filtration technology helps this industry's manufacturers to concentrate, clarify, and purify products, including bottled water, juice, and wine. They can also be used for enzyme recovery, processing of cheese whey, and removal of pathogens from milk.

“Middle East & Africa is the fourth-largest market for hollow fiber ultrafiltration.”

Middle East & Africa holds the fourth-largest market share globally in the hollow fiber ultrafiltration market due to several key factors. The region has less than 1% of water resources for domestic and industrial consumption. Around 5% of the world's population resides in the region, and the region has very scarce water resources available, posing a major threat of water scarcity. The growth in population and limited freshwater resources are some of the major reasons for the reuse and recycling of wastewater in the region. Increasing urbanization and improving the Middle East & Africa's business environment will further drive water & wastewater treatment activities. The region has multinational membrane manufacturing companies and innovation firms in water technology.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the hollow fiber ultrafiltration market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 40%, Tier 2 – 30%, and Tier 3 – 30%

By Designation: C Level Executives – 20%, Directors – 10%, and Others – 70%

By Region: North America – 22%, Europe – 22%, APAC – 45% and RoW- 11%

The hollow fiber ultrafiltration market comprises major players such as Pentair (US), Toray Industries, Inc. (Japan), DuPont (US), Hyflux (Singapore), Hydranautics (US), Kovalus Separation Solutions (US), Pall Corporation (US), Veolia (France), Asahi Kasei Corporation (Japan) and Mann+Hummel (Germany). The study includes in-depth competitive analysis of these key players in the hollow fiber ultrafiltration market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This report segments the market for hollow fiber ultrafiltration on the basis of type, application and region provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, mergers & acquisitions and investment & expansions associated with the hollow fiber ultrafiltration market.

Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the hollow fiber ultrafiltration market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on the hollow fiber ultrafiltration market offered by top players in the global hollow fiber ultrafiltration market.

Analysis of drivers: (public awareness for clean water necessities, global environmental standards and strong focus on sustainability), restraints (expensive polymers, fouling impacts efficiency and longevity) opportunities (growing water shortages, industrial demand for freshwater), and challenges (fragile, maintenance issues) influencing the growth of hollow fiber ultrafiltration market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the hollow fiber ultrafiltration market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for hollow fiber ultrafiltration market across regions.

Market Capacity: Production capacities of companies producing hollow fiber ultrafiltration are provided wherever available with upcoming capacities for the hollow fiber ultrafiltration market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the hollow fiber ultrafiltration market.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 INCLUSIONS & EXCLUSIONS
- 1.4 MARKET SCOPE
 - 1.4.1 YEARS CONSIDERED
- 1.5 CURRENCY CONSIDERED
- 1.6 UNIT CONSIDERED
- 1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 List of major secondary sources
 - 2.1.1.2 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 TOP-DOWN APPROACH
 - 2.2.2 BOTTOM-UP APPROACH
- 2.3 DATA TRIANGULATION
- 2.4 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST
 - 2.4.1 SUPPLY SIDE
 - 2.4.2 DEMAND SIDE
- 2.5 RESEARCH ASSUMPTIONS
- 2.6 RESEARCH LIMITATIONS
- 2.7 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN HOLLOW FIBER

ULTRAFILTRATION MARKET

4.2 HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE

4.3 HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION

4.4 HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 IMPACT OF GEN AI

5.3 MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 Public awareness about clean water necessities

5.3.1.2 Global environmental standards and strong focus on sustainability

5.3.2 RESTRAINTS

5.3.2.1 Expensive polymers like PVDF and PES increase manufacturing costs

5.3.2.2 Impact of fouling on efficiency and longevity of hollow fiber modules

5.3.3 OPPORTUNITIES

5.3.3.1 Growing water shortages in developing regions

5.3.3.2 Industrial demand for freshwater due to scarcity

5.3.4 CHALLENGES

5.3.4.1 Fragility and maintenance issues in hollow fiber ultrafiltration systems

5.4 PORTER'S FIVE FORCES ANALYSIS

5.4.1 THREAT OF SUBSTITUTES

5.4.2 BARGAINING POWER OF BUYERS

5.4.3 THREAT OF NEW ENTRANTS

5.4.4 BARGAINING POWER OF SUPPLIERS

5.4.5 INTENSITY OF COMPETITIVE RIVALRY

5.5 MACROECONOMIC INDICATORS

5.5.1 GLOBAL GDP TRENDS

5.6 KEY STAKEHOLDERS AND BUYING CRITERIA

5.6.1 KEY STAKEHOLDERS IN BUYING PROCESS

5.6.2 BUYING CRITERIA

5.7 VALUE CHAIN ANALYSIS

5.7.1 RAW MATERIAL SUPPLIERS

5.7.2 MANUFACTURERS

5.7.3 SUPPLIERS/DISTRIBUTORS

5.7.4 END-USE INDUSTRIES

5.8 ECOSYSTEM MAPPING

5.9 CASE STUDY ANALYSIS

- 5.9.1 INNOVATIVE ULTRAFILTRATION TECHNOLOGY TRANSFORMS WASTEWATER TREATMENT AT WUXI HIGH-TECH INDUSTRIAL PARK
- 5.9.2 ACHIEVING SUSTAINABLE WATER MANAGEMENT WITH APRICUS' HIGH-PERFORMANCE HOLLOW FIBER ULTRAFILTRATION MEMBRANES
- 5.9.3 ENHANCING ALUMINUM CASTING PROCESSES WITH SILICON NITRIDE
- 5.10 REGULATORY LANDSCAPE
 - 5.10.1 REGULATIONS
 - 5.10.1.1 Europe
 - 5.10.1.2 Asia Pacific
 - 5.10.1.3 North America
 - 5.10.2 STANDARDS
 - 5.10.2.1 United States Pharmacopeia (USP) Class VI
 - 5.10.3 REGULATORY BODIES, GOVERNMENT BODIES, AND OTHER AGENCIES
- 5.11 TECHNOLOGY ANALYSIS
 - 5.11.1 KEY TECHNOLOGY
 - 5.11.1.1 PVDF and PES for superior filtration performance
 - 5.11.2 COMPLEMENTARY TECHNOLOGY
 - 5.11.2.1 Innovative rotating hollow fiber membrane enhances MBR efficiency
 - 5.11.3 ADJACENT TECHNOLOGY
 - 5.11.3.1 Liquid separation using hollow fiber pervaporation modules
- 5.12 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 5.13 TRADE ANALYSIS
 - 5.13.1 EXPORT SCENARIO
 - 5.13.2 IMPORT SCENARIO
- 5.14 KEY CONFERENCES & EVENTS IN 2024–2025
- 5.15 PRICING TREND ANALYSIS
 - 5.15.1 AVERAGE SELLING PRICE, BY REGION
 - 5.15.2 AVERAGE SELLING PRICE OF HOLLOW FIBER ULTRAFILTRATION AMONG KEY PLAYERS, BY TYPE
 - 5.15.3 AVERAGE SELLING PRICE OF HOLLOW FIBER ULTRAFILTRATION AMONG KEY PLAYERS, BY APPLICATION
- 5.16 INVESTMENT AND FUNDING SCENARIO
- 5.17 PATENT ANALYSIS
 - 5.17.1 APPROACH
 - 5.17.2 DOCUMENT TYPE
 - 5.17.3 PUBLICATION TRENDS, LAST 10 YEARS (2013–2023)
 - 5.17.4 INSIGHTS
 - 5.17.5 LEGAL STATUS OF PATENTS
 - 5.17.6 JURISDICTION ANALYSIS

5.17.7 TOP COMPANIES/APPLICANTS

5.17.8 TOP 10 PATENT OWNERS (US) LAST 10 YEARS

6 HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE

6.1 INTRODUCTION

6.2 POLYMERIC

6.2.1 POROSITY AND PERMEABILITY OF POLYMERIC MEMBRANES TO DRIVE MARKET

6.2.2 PS & PES

6.2.3 PVDF

6.2.4 OTHER POLYMERIC TYPES

6.3 CERAMIC ULTRAFILTRATION

6.3.1 RESISTANCE TO CONCENTRATED ACIDS AND CAUSTIC SOLUTIONS TO DRIVE MARKET

6.3.2 ZIRCONIA

6.3.3 ALUMINA

6.3.4 TITANIA

6.4 HYBRID

6.4.1 HYDROPHILICITY AND CHEMICAL STABILITY TO DRIVE MARKET

6.5 OTHER TYPES

7 HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION

7.1 INTRODUCTION

7.2 MUNICIPAL TREATMENT

7.2.1 DESALINATION

7.2.2 PUBLIC UTILITY WATER TREATMENT

7.2.3 WASTEWATER REUSE

7.3 INDUSTRIAL TREATMENT

7.3.1 FOOD & BEVERAGE

7.3.1.1 Dairy processing

7.3.1.2 Food processing

7.3.1.3 Beverage processing

7.3.2 PHARMACEUTICAL

7.3.3 OIL & GAS

7.3.4 OTHER INDUSTRIAL TREATMENT APPLICATIONS

8 HOLLOW FIBER ULTRAFILTRATION MARKET, BY REGION

8.1 INTRODUCTION

8.2 NORTH AMERICA

8.2.1 US

8.2.1.1 Increasing adoption of safe water technologies

8.2.2 CANADA

8.2.2.1 Municipal regulations support hollow fiber ultrafiltration market growth

8.2.3 MEXICO

8.2.3.1 Growing population to drive demand

8.3 EUROPE

8.3.1 GERMANY

8.3.1.1 Advanced wastewater treatment to drive market

8.3.2 FRANCE

8.3.2.1 Leader in R&D for cost-effective water treatment technologies

8.3.3 SPAIN

8.3.3.1 EU directives to fuel water treatment innovations in Spain

8.3.4 UK

8.3.4.1 Food & beverage industry to drive demand

8.3.5 NETHERLANDS

8.3.5.1 Increase in municipal and industrial water treatment to drive demand

8.3.6 ITALY

8.3.6.1 Increasing role of ultrafiltration in chemical and food industries to drive demand

8.3.7 REST OF EUROPE

8.4 ASIA PACIFIC

8.4.1 CHINA

8.4.1.1 Industrialization and water challenges to propel filtration sector

8.4.2 JAPAN

8.4.2.1 Technological edge in water treatment to drive market

8.4.3 INDIA

8.4.3.1 Increase in government's focus on water treatment to drive market

8.4.4 SOUTH KOREA

8.4.4.1 Wastewater reuse initiatives to drive ultrafiltration demand

8.4.5 REST OF ASIA PACIFIC

8.5 MIDDLE EAST & AFRICA

8.5.1 GCC

8.5.1.1 Reforms to diversify economies, reduce dependence on oil, and promote sustainable growth to drive market

8.5.1.2 Saudi Arabia

8.5.1.2.1 Plans to add plants enabled with membrane technology to drive demand

8.5.1.3 UAE

8.5.1.3.1 Oil refinery industry to drive market

8.5.1.4 Rest of GCC

8.5.2 SOUTH AFRICA

8.5.2.1 Huge population, severe drought, and water pollution to drive market

8.5.3 REST OF MIDDLE EAST & AFRICA

8.6 SOUTH AMERICA

8.6.1 BRAZIL

8.6.1.1 High demand for potable and industrial processing water to drive market

8.6.2 ARGENTINA

8.6.2.1 Emphasis on wastewater treatment activities and foreign investments to boost market

8.6.3 REST OF SOUTH AMERICA

9 COMPETITIVE LANDSCAPE

9.1 OVERVIEW

9.2 KEY PLAYER STRATEGIES

9.3 REVENUE ANALYSIS

9.4 MARKET SHARE ANALYSIS

9.5 COMPANY VALUATION AND FINANCIAL METRICS

9.6 BRAND/PRODUCT COMPARISON

9.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

9.7.1 STARS

9.7.2 EMERGING LEADERS

9.7.3 PERVASIVE PLAYERS

9.7.4 PARTICIPANTS

9.7.5 COMPANY FOOTPRINT

9.7.5.1 Company type footprint

9.7.5.2 Company application footprint

9.7.5.3 Company region footprint

9.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023

9.8.1 PROGRESSIVE COMPANIES

9.8.2 RESPONSIVE COMPANIES

9.8.3 DYNAMIC COMPANIES

9.8.4 STARTING BLOCKS

9.8.5 COMPETITIVE BENCHMARKING

9.9 COMPETITIVE SCENARIO AND TRENDS

- 9.9.1 PRODUCT LAUNCHES
- 9.9.2 EXPANSIONS
- 9.9.3 DEALS

10 COMPANY PROFILES

10.1 KEY PLAYERS

10.1.1 DUPONT

- 10.1.1.1 Business overview
- 10.1.1.2 Products/Solutions/Services offered
- 10.1.1.3 Recent developments
 - 10.1.1.3.1 Deals
- 10.1.1.4 MnM view
 - 10.1.1.4.1 Key strengths
 - 10.1.1.4.2 Strategic choices
 - 10.1.1.4.3 Weaknesses and competitive threats

10.1.2 VEOLIA

- 10.1.2.1 Business overview
- 10.1.2.2 Products/Solutions/Services offered
- 10.1.2.3 Deals
- 10.1.2.4 MnM view

10.1.3 TORAY INDUSTRIES, INC.

- 10.1.3.1 Business overview
- 10.1.3.2 Products/Solutions/Services offered
- 10.1.3.3 Recent developments
 - 10.1.3.3.1 Deals
- 10.1.3.4 MnM view
 - 10.1.3.4.1 Key strengths
 - 10.1.3.4.2 Strategic choices
 - 10.1.3.4.3 Weaknesses and competitive threats

10.1.4 ASAHI KASEI CORPORATION

- 10.1.4.1 Business overview
- 10.1.4.2 Products/Solutions/Services offered
- 10.1.4.3 MnM view

10.1.5 HYDRANAUTICS

- 10.1.5.1 Business overview
- 10.1.5.2 Products/Solutions/Services offered
- 10.1.5.3 Recent developments
 - 10.1.5.3.1 Product launches

- 10.1.5.3.2 Deals
- 10.1.5.4 MnM view
 - 10.1.5.4.1 Key strengths
 - 10.1.5.4.2 Strategic choices
 - 10.1.5.4.3 Weaknesses and competitive threats
- 10.1.6 MANN+HUMMEL
 - 10.1.6.1 Business overview
 - 10.1.6.2 Products/Solutions/Services offered
 - 10.1.6.3 MnM view
- 10.1.7 PENTAIR
 - 10.1.7.1 Business overview
 - 10.1.7.2 Products/Solutions/Services offered
 - 10.1.7.3 Recent developments
 - 10.1.7.3.1 Deals
 - 10.1.7.4 MnM view
 - 10.1.7.4.1 Key strengths
 - 10.1.7.4.2 Strategic choices
 - 10.1.7.4.3 Weaknesses and competitive threats
- 10.1.8 KOVALUS SEPARATION SOLUTIONS
 - 10.1.8.1 Business overview
 - 10.1.8.2 Products/Solutions/Services offered
 - 10.1.8.3 Recent developments
 - 10.1.8.3.1 Deals
 - 10.1.8.3.2 Expansions
 - 10.1.8.4 MnM view
- 10.1.9 PALL CORPORATION
 - 10.1.9.1 Business overview
 - 10.1.9.2 Products/Solutions/Services offered
 - 10.1.9.3 Recent developments
 - 10.1.9.3.1 Deals
 - 10.1.9.4 MnM view
- 10.1.10 HYFLUX
 - 10.1.10.1 Business overview
 - 10.1.10.2 Products/Solutions/Services offered
 - 10.1.10.3 MnM view
 - 10.1.10.3.1 Key strengths
 - 10.1.10.3.2 Strategic choices
 - 10.1.10.3.3 Weaknesses and competitive threats
- 10.1.11 VONTRON TECHNOLOGY CO., LTD.

- 10.1.11.1 Business overview
- 10.1.11.2 Products/Solutions/Services offered
- 10.1.11.3 MnM view

10.2 OTHER PLAYERS

- 10.2.1 APPLIED MEMBRANES, INC.
- 10.2.2 MEMBRANE SOLUTIONS (NANTONG)
- 10.2.3 SCINOR WATER AMERICA, LLC
- 10.2.4 ALPHA PLAN GMBH
- 10.2.5 MEMFILL TECH PVT. LTD.
- 10.2.6 QUA GROUP LLC
- 10.2.7 POLYMEM
- 10.2.8 HONGTEK FILTRATION CO., LTD.
- 10.2.9 PCI MEMBRANES
- 10.2.10 JIUWU HI-TECH MEMBRANE TECHNOLOGY
- 10.2.11 AQUABRANE WATER TECHNOLOGIES PVT. LTD.
- 10.2.12 HYDRAMEM
- 10.2.13 THEWAY MEMBRANES
- 10.2.14 HINADA

11 APPENDIX

11.1 DISCUSSION GUIDE

11.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

11.3 CUSTOMIZATION OPTIONS

11.4 RELATED REPORTS

11.5 AUTHOR DETAILS

TABLE 1 HOLLOW FIBER ULTRAFILTRATION MARKET: INCLUSIONS & EXCLUSIONS

TABLE 2 HOLLOW FIBER ULTRAFILTRATION MARKET: PORTER'S FIVE FORCES

TABLE 3 PROJECTED REAL GDP GROWTH (ANNUAL PERCENT CHANGE) OF KEY COUNTRIES, 2021–2029

TABLE 4 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR KEY APPLICATIONS (%)

TABLE 5 HOLLOW FIBER ULTRAFILTRATION: ECOSYSTEM

TABLE 6 EUROPE: REGULATORY BODIES, GOVERNMENT BODIES, AND OTHER AGENCIES

TABLE 7 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT BODIES, AND OTHER AGENCIES

TABLE 8 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES,

AND OTHER AGENCIES

TABLE 9 EXPORT TRADE DATA OF HOLLOW FIBER ULTRAFILTRATION FOR TOP COUNTRIES, 2019–2023 (USD THOUSAND)

TABLE 10 IMPORT TRADE DATA OF HOLLOW FIBER ULTRAFILTRATION FOR TOP COUNTRIES, 2019–2023 (USD THOUSAND)

TABLE 11 HOLLOW FIBER ULTRAFILTRATION MARKET: DETAILED LIST OF CONFERENCES & EVENTS

TABLE 12 AVERAGE SELLING PRICE OF HOLLOW FIBER ULTRAFILTRATION AMONG KEY PLAYERS, BY TYPE (USD/UNIT)

TABLE 13 AVERAGE SELLING PRICES OF HOLLOW FIBER ULTRAFILTRATION AMONG KEY PLAYERS, BY APPLICATION (USD/UNIT)

TABLE 14 TOTAL NUMBER OF PATENTS

TABLE 15 PATENTS BY GAMBRO LUNDIA AB (BAXTER)

TABLE 16 PATENTS BY HANGZHOU AOKE FILTER TECH CO LTD

TABLE 17 PATENTS BY BASF SE

TABLE 18 TOP 10 PATENT OWNERS

TABLE 19 HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 20 HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 21 HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE, 2020–2023 (QUANTITY)

TABLE 22 HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE, 2024–2029 (QUANTITY)

TABLE 23 HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 24 HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 25 HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 26 HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 27 HOLLOW FIBER ULTRAFILTRATION MARKET, BY REGION,

2020–2023 (USD MILLION)

TABLE 28 HOLLOW FIBER ULTRAFILTRATION MARKET, BY REGION,

2024–2029 (USD MILLION)

TABLE 29 HOLLOW FIBER ULTRAFILTRATION MARKET, BY REGION, 2020–2023
(QUANTITY)

TABLE 30 HOLLOW FIBER ULTRAFILTRATION MARKET, BY REGION, 2024–2029
(QUANTITY)

TABLE 31 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
COUNTRY, 2020–2023 (USD MILLION)

TABLE 32 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
COUNTRY, 2024–2029 (USD MILLION)

TABLE 33 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
COUNTRY, 2020–2023 (QUANTITY)

TABLE 34 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
COUNTRY, 2024–2029 (QUANTITY)

TABLE 35 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
TYPE,

2020–2023 (USD MILLION)

TABLE 36 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
TYPE,

2024–2029 (USD MILLION)

TABLE 37 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
TYPE,

2020–2023 (QUANTITY)

TABLE 38 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
TYPE,

2024–2029 (QUANTITY)

TABLE 39 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 40 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 41 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 42 NORTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 43 US: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 44 US: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 45 US: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 46 US: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 47 CANADA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 48 CANADA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 49 CANADA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 50 CANADA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 51 MEXICO: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 52 MEXICO: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 53 MEXICO: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 54 MEXICO: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 55 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2020–2023 (USD MILLION)

TABLE 56 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2024–2029 (USD MILLION)

TABLE 57 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2020–2023 (QUANTITY)

TABLE 58 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,
2024–2029 (QUANTITY)

TABLE 59 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,
2020–2023 (USD MILLION)

TABLE 60 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,
2024–2029 (USD MILLION)

TABLE 61 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,
2020–2023 (QUANTITY)

TABLE 62 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,
2024–2029 (QUANTITY)

TABLE 63 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION,
2020–2023 (USD MILLION)

TABLE 64 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION,
2024–2029 (USD MILLION)

TABLE 65 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION,
2020–2023 (QUANTITY)

TABLE 66 EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION,
2024–2029 (QUANTITY)

TABLE 67 GERMANY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 68 GERMANY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 69 GERMANY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 70 GERMANY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 71 FRANCE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 72 FRANCE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 73 FRANCE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 74 FRANCE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 75 SPAIN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 76 SPAIN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 77 SPAIN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 78 SPAIN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 79 UK: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 80 UK: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 81 UK: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 82 UK: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 83 NETHERLANDS: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 84 NETHERLANDS: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 85 NETHERLANDS: HOLLOW FIBER ULTRAFILTRATION MARKET, BY

APPLICATION, 2020–2023 (QUANTITY)

TABLE 86 NETHERLANDS: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 87 ITALY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 88 ITALY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 89 ITALY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 90 ITALY: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 91 REST OF EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 92 REST OF EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 93 REST OF EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 94 REST OF EUROPE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 95 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2020–2023 (USD MILLION)

TABLE 96 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2024–2029 (USD MILLION)

TABLE 97 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2020–2023 (QUANTITY)

TABLE 98 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY,

2024–2029 (QUANTITY)

TABLE 99 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2020–2023 (USD MILLION)

TABLE 100 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2024–2029 (USD MILLION)

TABLE 101 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2020–2023 (QUANTITY)

TABLE 102 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2024–2029 (QUANTITY)

TABLE 103 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 104 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 105 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 106 ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 107 CHINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 108 CHINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 109 CHINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 110 CHINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 111 JAPAN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 112 JAPAN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 113 JAPAN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 114 JAPAN: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 115 INDIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 116 INDIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 117 INDIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 118 INDIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 119 SOUTH KOREA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 120 SOUTH KOREA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 121 SOUTH KOREA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 122 SOUTH KOREA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 123 REST OF ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 124 REST OF ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 125 REST OF ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET,

BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 126 REST OF ASIA PACIFIC: HOLLOW FIBER ULTRAFILTRATION MARKET,
BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 127 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 128 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 129 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY COUNTRY, 2020–2023 (QUANTITY)

TABLE 130 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY COUNTRY, 2024–2029 (QUANTITY)

TABLE 131 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY TYPE, 2020–2023 (USD MILLION)

TABLE 132 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 133 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY TYPE, 2020–2023 (QUANTITY)

TABLE 134 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET, BY TYPE, 2024–2029 (QUANTITY)

TABLE 135 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET,

BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 136 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET,

BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 137 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET,

BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 138 MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION
MARKET,

BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 139 GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 140 GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 141 GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,
2020–2023 (QUANTITY)

TABLE 142 GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,
2024–2029 (QUANTITY)

TABLE 143 SAUDI ARABIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2020–2023 (USD MILLION)

TABLE 144 SAUDI ARABIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2024–2029 (USD MILLION)

TABLE 145 SAUDI ARABIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2020–2023 (QUANTITY)

TABLE 146 SAUDI ARABIA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2024–2029 (QUANTITY)

TABLE 147 UAE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,
2020–2023 (USD MILLION)

TABLE 148 UAE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,
2024–2029 (USD MILLION)

TABLE 149 UAE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,
2020–2023 (QUANTITY)

TABLE 150 UAE: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,
2024–2029 (QUANTITY)

TABLE 151 REST OF GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2020–2023 (USD MILLION)

TABLE 152 REST OF GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2024–2029 (USD MILLION)

TABLE 153 REST OF GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY
APPLICATION, 2020–2023 (QUANTITY)

TABLE 154 REST OF GCC: HOLLOW FIBER ULTRAFILTRATION MARKET, BY

APPLICATION, 2024–2029 (QUANTITY)

TABLE 155 SOUTH AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 156 SOUTH AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 157 SOUTH AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 158 SOUTH AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 159 REST OF MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 160 REST OF MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 161 REST OF MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 162 REST OF MIDDLE EAST & AFRICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 163 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 164 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 165 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY, 2020–2023 (QUANTITY)

TABLE 166 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY COUNTRY, 2024–2029 (QUANTITY)

TABLE 167 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2020–2023 (USD MILLION)

TABLE 168 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2024–2029 (USD MILLION)

TABLE 169 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2020–2023 (QUANTITY)

TABLE 170 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY TYPE,

2024–2029 (QUANTITY)

TABLE 171 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 172 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 173 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 174 SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 175 BRAZIL: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (USD MILLION)

TABLE 176 BRAZIL: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 177 BRAZIL: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 178 BRAZIL: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 179 ARGENTINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY

APPLICATION,

2020–2023 (USD MILLION)

TABLE 180 ARGENTINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (USD MILLION)

TABLE 181 ARGENTINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2020–2023 (QUANTITY)

TABLE 182 ARGENTINA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION,

2024–2029 (QUANTITY)

TABLE 183 REST OF SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (USD MILLION)

TABLE 184 REST OF SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (USD MILLION)

TABLE 185 REST OF SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2020–2023 (QUANTITY)

TABLE 186 REST OF SOUTH AMERICA: HOLLOW FIBER ULTRAFILTRATION MARKET, BY APPLICATION, 2024–2029 (QUANTITY)

TABLE 187 HOLLOW FIBER ULTRAFILTRATION MARKET: DEGREE OF COMPETITION

TABLE 188 HOLLOW FIBER ULTRAFILTRATION MARKET: TYPE FOOTPRINT

TABLE 189 HOLLOW FIBER ULTRAFILTRATION MARKET: APPLICATION FOOTPRINT

TABLE 190 HOLLOW FIBER ULTRAFILTRATION MARKET: REGIONAL FOOTPRINT

TABLE 191 HOLLOW FIBER ULTRAFILTRATION: KEY STARTUPS/SMES

TABLE 192 HOLLOW FIBER ULTRAFILTRATION MARKET: COMPETITIVE

BENCHMARKING OF STARTUPS/SMES**TABLE 193 HOLLOW FIBER ULTRAFILTRATION MARKET: PRODUCT LAUNCHES, JANUARY 2019–APRIL 2024****TABLE 194 HOLLOW FIBER ULTRAFILTRATION MARKET: EXPANSIONS, JANUARY 2019–APRIL 2024****TABLE 195 HOLLOW FIBER ULTRAFILTRATION MARKET: DEALS, JANUARY 2019–APRIL 2024****TABLE 196 DUPONT: COMPANY OVERVIEW****TABLE 197 DUPONT: PRODUCT/SOLUTIONS/SERVICES OFFERED****TABLE 198 DUPONT: DEALS****TABLE 199 VEOLIA: COMPANY OVERVIEW****TABLE 200 VEOLIA: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 201 VEOLIA: DEALS****TABLE 202 TORAY INDUSTRIES, INC.: COMPANY OVERVIEW****TABLE 203 TORAY INDUSTRIES INC.: PRODUCT/SOLUTIONS/SERVICES OFFERED****TABLE 204 TORAY INDUSTRIES INC.: DEALS****TABLE 205 ASAHI KASEI CORPORATION: COMPANY OVERVIEW****TABLE 206 ASAHI KASEI CORPORATION: PRODUCT/SOLUTIONS/SERVICES OFFERED****TABLE 207 HYDRANAUTICS: COMPANY OVERVIEW****TABLE 208 HYDRANAUTICS: PRODUCT/SOLUTIONS/SERVICES OFFERED****TABLE 209 HYDRANAUTICS: PRODUCT LAUNCHES****TABLE 210 HYDRANAUTICS: DEALS****TABLE 211 MANN+HUMMEL: COMPANY OVERVIEW****TABLE 212 MANN+HUMMEL: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 213 PENTAIR: COMPANY OVERVIEW****TABLE 214 PENTAIR: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 215 PENTAIR: DEALS****TABLE 216 KOVALUS SEPARATION SOLUTIONS: COMPANY OVERVIEW****TABLE 217 KOVALUS SEPARATION SOLUTIONS: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 218 KOVALUS SEPARATION SOLUTIONS: DEALS****TABLE 219 KOVALUS SEPARATION SOLUTIONS: EXPANSIONS****TABLE 220 PALL CORPORATION: COMPANY OVERVIEW****TABLE 221 PALL CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 222 PALL CORPORATION: DEALS****TABLE 223 HYFLUX: COMPANY OVERVIEW****TABLE 224 HYFLUX: PRODUCTS/SOLUTIONS/SERVICES OFFERED**

TABLE 225 VONTRON TECHNOLOGY CO., LTD.: COMPANY OVERVIEW
TABLE 226 VONTRON TECHNOLOGY CO., LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERED
TABLE 227 APPLIED MEMBRANES, INC.: COMPANY OVERVIEW
TABLE 228 MEMBRANE SOLUTIONS (NANTONG): COMPANY OVERVIEW
TABLE 229 SCINOR WATER AMERICA, LLC: COMPANY OVERVIEW
TABLE 230 ALPHA PLAN GMBH: COMPANY OVERVIEW
TABLE 231 MEMFILL TECH PVT. LTD.: COMPANY OVERVIEW
TABLE 232 QUA GROUP LLC: COMPANY OVERVIEW
TABLE 233 POLYMEM: COMPANY OVERVIEW
TABLE 234 HONGTEK FILTRATION CO., LTD.: COMPANY OVERVIEW
TABLE 235 PCI MEMBRANES: COMPANY OVERVIEW
TABLE 236 JIUWU HI-TECH MEMBRANE TECHNOLOGY: COMPANY OVERVIEW
TABLE 237 AQUABRANE WATER TECHNOLOGIES PVT. LTD.: COMPANY
OVERVIEW
TABLE 238 HYDRAMEM: COMPANY OVERVIEW
TABLE 239 THEWAY MEMBRANES: COMPANY OVERVIEW
TABLE 240 HINADA: COMPANY OVERVIEW

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