

# Fuel Cell Humidifier Industry Research Report 2023

<https://marketpublishers.com/r/F2C1B0EAA484EN.html>

Date: August 2023

Pages: 89

Price: US\$ 2,950.00 (Single User License)

ID: F2C1B0EAA484EN

## Abstracts

### Highlights

The global Fuel Cell Humidifier market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2022, at a CAGR of % during 2023 and 2029.

North American market for Fuel Cell Humidifier is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Asia-Pacific market for Fuel Cell Humidifier is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

The major global companies of Fuel Cell Humidifier include Perma Pure LLC, Mann+Hummel, Freudenberg Filtration Technologies, KOLON, Pentair Engineered Filtration, DPoint Technologies, Shenzhen Extender, Voir-tech H2 and Emprise, etc. In 2022, the world's top three vendors accounted for approximately % of the revenue.

The global market for Fuel Cell Humidifier in Passenger Vehicle is estimated to increase from \$ million in 2022 to \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Considering the economic change due to COVID-19 and Russia-Ukraine War Influence, Below 50KW, which accounted for % of the global market of Fuel Cell Humidifier in 2022, is expected to reach million US\$ by 2029, growing at a revised CAGR of % from 2023 to 2029.

### Report Scope

This report aims to provide a comprehensive presentation of the global market for Fuel Cell Humidifier, 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 Fuel Cell Humidifier.

The Fuel Cell Humidifier market size, estimations, and forecasts are provided in terms of output/shipments (Units) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Fuel Cell Humidifier market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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.

The report will help the Fuel Cell Humidifier manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

### 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 2018-2023. 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:

Perma Pure LLC

Mann+Hummel

Freudenberg Filtration Technologies

KOLON

Pentair Engineered Filtration

DPoint Technologies

Shenzhen Extender

Voir-tech H2

Emprise

## Product Type Insights

Global markets are presented by Fuel Cell Humidifier type, along with growth forecasts through 2029. Estimates on production and value are based on the price in the supply chain at which the Fuel Cell Humidifier are procured by the manufacturers.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows production and revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

## Fuel Cell Humidifier segment by Type

Below 50KW

50-80KW

100-120KW

Above 120KW

## Application Insights

This report has provided the market size (production and revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Fuel Cell Humidifier market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Fuel Cell Humidifier market.

## Fuel Cell Humidifier segment by Application

Passenger Vehicle

Bus

Special Vehicles (Medium and Heavy Trucks, etc)

Others

## Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the particular region/country. The readers will also get their hands on the revenue and sales data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2022 because of the base year, with estimates for 2023 and forecast value for 2029.

North America

United States

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

### 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.

### COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Fuel Cell Humidifier market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply chain management, export and import, and production. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to come.

### Reasons to Buy This Report

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 Fuel Cell Humidifier 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.

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

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.

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

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Fuel Cell Humidifier industry.

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

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Fuel Cell Humidifier.

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

## Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Fuel Cell Humidifier manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Fuel Cell Humidifier by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Fuel Cell Humidifier in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: 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 11: The main points and conclusions of the report.



## Contents

### 1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
  - 1.5.1 Secondary Sources
  - 1.5.2 Primary Sources

### 2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Fuel Cell Humidifier by Type
  - 2.2.1 Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)
    - 1.2.2 Below 50KW
    - 1.2.3 50-80KW
    - 1.2.4 100-120KW
    - 1.2.5 Above 120KW
- 2.3 Fuel Cell Humidifier by Application
  - 2.3.1 Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)
  - 2.3.2 Passenger Vehicle
  - 2.3.3 Bus
  - 2.3.4 Special Vehicles (Medium and Heavy Trucks, etc)
  - 2.3.5 Others
- 2.4 Global Market Growth Prospects
  - 2.4.1 Global Fuel Cell Humidifier Production Value Estimates and Forecasts (2018-2029)
  - 2.4.2 Global Fuel Cell Humidifier Production Capacity Estimates and Forecasts (2018-2029)
  - 2.4.3 Global Fuel Cell Humidifier Production Estimates and Forecasts (2018-2029)
  - 2.4.4 Global Fuel Cell Humidifier Market Average Price (2018-2029)

### 3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Fuel Cell Humidifier Production by Manufacturers (2018-2023)

- 3.2 Global Fuel Cell Humidifier Production Value by Manufacturers (2018-2023)
- 3.3 Global Fuel Cell Humidifier Average Price by Manufacturers (2018-2023)
- 3.4 Global Fuel Cell Humidifier Industry Manufacturers Ranking, 2021 VS 2022 VS 2023
- 3.5 Global Fuel Cell Humidifier Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Fuel Cell Humidifier Manufacturers, Product Type & Application
- 3.7 Global Fuel Cell Humidifier Manufacturers, Date of Enter into This Industry
- 3.8 Global Fuel Cell Humidifier Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

## **4 MANUFACTURERS PROFILED**

### 4.1 Perma Pure LLC

- 4.1.1 Perma Pure LLC Fuel Cell Humidifier Company Information
- 4.1.2 Perma Pure LLC Fuel Cell Humidifier Business Overview
- 4.1.3 Perma Pure LLC Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)
- 4.1.4 Perma Pure LLC Product Portfolio
- 4.1.5 Perma Pure LLC Recent Developments

### 4.2 Mann+Hummel

- 4.2.1 Mann+Hummel Fuel Cell Humidifier Company Information
- 4.2.2 Mann+Hummel Fuel Cell Humidifier Business Overview
- 4.2.3 Mann+Hummel Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)
- 4.2.4 Mann+Hummel Product Portfolio
- 4.2.5 Mann+Hummel Recent Developments

### 4.3 Freudenberg Filtration Technologies

- 4.3.1 Freudenberg Filtration Technologies Fuel Cell Humidifier Company Information
- 4.3.2 Freudenberg Filtration Technologies Fuel Cell Humidifier Business Overview
- 4.3.3 Freudenberg Filtration Technologies Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)
- 4.3.4 Freudenberg Filtration Technologies Product Portfolio
- 4.3.5 Freudenberg Filtration Technologies Recent Developments

### 4.4 KOLON

- 4.4.1 KOLON Fuel Cell Humidifier Company Information
- 4.4.2 KOLON Fuel Cell Humidifier Business Overview
- 4.4.3 KOLON Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)
- 4.4.4 KOLON Product Portfolio
- 4.4.5 KOLON Recent Developments

#### 4.5 Pentair Engineered Filtration

4.5.1 Pentair Engineered Filtration Fuel Cell Humidifier Company Information

4.5.2 Pentair Engineered Filtration Fuel Cell Humidifier Business Overview

4.5.3 Pentair Engineered Filtration Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)

4.5.4 Pentair Engineered Filtration Product Portfolio

4.5.5 Pentair Engineered Filtration Recent Developments

#### 4.6 DPoint Technologies

4.6.1 DPoint Technologies Fuel Cell Humidifier Company Information

4.6.2 DPoint Technologies Fuel Cell Humidifier Business Overview

4.6.3 DPoint Technologies Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)

4.6.4 DPoint Technologies Product Portfolio

4.6.5 DPoint Technologies Recent Developments

#### 4.7 Shenzhen Extender

4.7.1 Shenzhen Extender Fuel Cell Humidifier Company Information

4.7.2 Shenzhen Extender Fuel Cell Humidifier Business Overview

4.7.3 Shenzhen Extender Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)

4.7.4 Shenzhen Extender Product Portfolio

4.7.5 Shenzhen Extender Recent Developments

#### 4.8 Voir-tech H2

4.8.1 Voir-tech H2 Fuel Cell Humidifier Company Information

4.8.2 Voir-tech H2 Fuel Cell Humidifier Business Overview

4.8.3 Voir-tech H2 Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)

4.8.4 Voir-tech H2 Product Portfolio

4.8.5 Voir-tech H2 Recent Developments

#### 4.9 Emprise

4.9.1 Emprise Fuel Cell Humidifier Company Information

4.9.2 Emprise Fuel Cell Humidifier Business Overview

4.9.3 Emprise Fuel Cell Humidifier Production, Value and Gross Margin (2018-2023)

4.9.4 Emprise Product Portfolio

4.9.5 Emprise Recent Developments

## 5 GLOBAL FUEL CELL HUMIDIFIER PRODUCTION BY REGION

### 5.1 Global Fuel Cell Humidifier Production Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

- 5.2 Global Fuel Cell Humidifier Production by Region: 2018-2029
  - 5.2.1 Global Fuel Cell Humidifier Production by Region: 2018-2023
  - 5.2.2 Global Fuel Cell Humidifier Production Forecast by Region (2024-2029)
- 5.3 Global Fuel Cell Humidifier Production Value Estimates and Forecasts by Region: 2018 VS 2022 VS 2029
- 5.4 Global Fuel Cell Humidifier Production Value by Region: 2018-2029
  - 5.4.1 Global Fuel Cell Humidifier Production Value by Region: 2018-2023
  - 5.4.2 Global Fuel Cell Humidifier Production Value Forecast by Region (2024-2029)
- 5.5 Global Fuel Cell Humidifier Market Price Analysis by Region (2018-2023)
- 5.6 Global Fuel Cell Humidifier Production and Value, YOY Growth
  - 5.6.1 North America Fuel Cell Humidifier Production Value Estimates and Forecasts (2018-2029)
  - 5.6.2 Europe Fuel Cell Humidifier Production Value Estimates and Forecasts (2018-2029)
  - 5.6.3 China Fuel Cell Humidifier Production Value Estimates and Forecasts (2018-2029)
  - 5.6.4 Japan Fuel Cell Humidifier Production Value Estimates and Forecasts (2018-2029)

## **6 GLOBAL FUEL CELL HUMIDIFIER CONSUMPTION BY REGION**

- 6.1 Global Fuel Cell Humidifier Consumption Estimates and Forecasts by Region: 2018 VS 2022 VS 2029
- 6.2 Global Fuel Cell Humidifier Consumption by Region (2018-2029)
  - 6.2.1 Global Fuel Cell Humidifier Consumption by Region: 2018-2029
  - 6.2.2 Global Fuel Cell Humidifier Forecasted Consumption by Region (2024-2029)
- 6.3 North America
  - 6.3.1 North America Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029
  - 6.3.2 North America Fuel Cell Humidifier Consumption by Country (2018-2029)
  - 6.3.3 United States
  - 6.3.4 Canada
- 6.4 Europe
  - 6.4.1 Europe Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029
  - 6.4.2 Europe Fuel Cell Humidifier Consumption by Country (2018-2029)
  - 6.4.3 Germany
  - 6.4.4 France
  - 6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.5.2 Asia Pacific Fuel Cell Humidifier Consumption by Country (2018-2029)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.6.2 Latin America, Middle East & Africa Fuel Cell Humidifier Consumption by Country (2018-2029)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

## **7 SEGMENT BY TYPE**

7.1 Global Fuel Cell Humidifier Production by Type (2018-2029)

7.1.1 Global Fuel Cell Humidifier Production by Type (2018-2029) & (Units)

7.1.2 Global Fuel Cell Humidifier Production Market Share by Type (2018-2029)

7.2 Global Fuel Cell Humidifier Production Value by Type (2018-2029)

7.2.1 Global Fuel Cell Humidifier Production Value by Type (2018-2029) & (US\$ Million)

7.2.2 Global Fuel Cell Humidifier Production Value Market Share by Type (2018-2029)

7.3 Global Fuel Cell Humidifier Price by Type (2018-2029)

## **8 SEGMENT BY APPLICATION**

8.1 Global Fuel Cell Humidifier Production by Application (2018-2029)

8.1.1 Global Fuel Cell Humidifier Production by Application (2018-2029) & (Units)

8.1.2 Global Fuel Cell Humidifier Production by Application (2018-2029) & (Units)

- 8.2 Global Fuel Cell Humidifier Production Value by Application (2018-2029)
  - 8.2.1 Global Fuel Cell Humidifier Production Value by Application (2018-2029) & (US\$ Million)
  - 8.2.2 Global Fuel Cell Humidifier Production Value Market Share by Application (2018-2029)
- 8.3 Global Fuel Cell Humidifier Price by Application (2018-2029)

## **9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET**

- 9.1 Fuel Cell Humidifier Value Chain Analysis
  - 9.1.1 Fuel Cell Humidifier Key Raw Materials
  - 9.1.2 Raw Materials Key Suppliers
  - 9.1.3 Fuel Cell Humidifier Production Mode & Process
- 9.2 Fuel Cell Humidifier Sales Channels Analysis
  - 9.2.1 Direct Comparison with Distribution Share
  - 9.2.2 Fuel Cell Humidifier Distributors
  - 9.2.3 Fuel Cell Humidifier Customers

## **10 GLOBAL FUEL CELL HUMIDIFIER ANALYZING MARKET DYNAMICS**

- 10.1 Fuel Cell Humidifier Industry Trends
- 10.2 Fuel Cell Humidifier Industry Drivers
- 10.3 Fuel Cell Humidifier Industry Opportunities and Challenges
- 10.4 Fuel Cell Humidifier Industry Restraints

## **11 REPORT CONCLUSION**

## **12 DISCLAIMER**

## List Of Tables

### LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Table 4. Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)

Table 5. Global Fuel Cell Humidifier Production by Manufacturers (Units) & (2018-2023)

Table 6. Global Fuel Cell Humidifier Production Market Share by Manufacturers

Table 7. Global Fuel Cell Humidifier Production Value by Manufacturers (US\$ Million) & (2018-2023)

Table 8. Global Fuel Cell Humidifier Production Value Market Share by Manufacturers (2018-2023)

Table 9. Global Fuel Cell Humidifier Average Price (US\$/Unit) of Key Manufacturers (2018-2023)

Table 10. Global Fuel Cell Humidifier Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

Table 11. Global Fuel Cell Humidifier Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Fuel Cell Humidifier by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2022)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. Perma Pure LLC Fuel Cell Humidifier Company Information

Table 16. Perma Pure LLC Business Overview

Table 17. Perma Pure LLC Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 18. Perma Pure LLC Product Portfolio

Table 19. Perma Pure LLC Recent Developments

Table 20. Mann+Hummel Fuel Cell Humidifier Company Information

Table 21. Mann+Hummel Business Overview

Table 22. Mann+Hummel Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 23. Mann+Hummel Product Portfolio

Table 24. Mann+Hummel Recent Developments

Table 25. Freudenberg Filtration Technologies Fuel Cell Humidifier Company Information

Table 26. Freudenberg Filtration Technologies Business Overview



Table 27. Freudenberg Filtration Technologies Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 28. Freudenberg Filtration Technologies Product Portfolio

Table 29. Freudenberg Filtration Technologies Recent Developments

Table 30. KOLON Fuel Cell Humidifier Company Information

Table 31. KOLON Business Overview

Table 32. KOLON Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 33. KOLON Product Portfolio

Table 34. KOLON Recent Developments

Table 35. Pentair Engineered Filtration Fuel Cell Humidifier Company Information

Table 36. Pentair Engineered Filtration Business Overview

Table 37. Pentair Engineered Filtration Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 38. Pentair Engineered Filtration Product Portfolio

Table 39. Pentair Engineered Filtration Recent Developments

Table 40. DPoint Technologies Fuel Cell Humidifier Company Information

Table 41. DPoint Technologies Business Overview

Table 42. DPoint Technologies Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 43. DPoint Technologies Product Portfolio

Table 44. DPoint Technologies Recent Developments

Table 45. Shenzhen Extender Fuel Cell Humidifier Company Information

Table 46. Shenzhen Extender Business Overview

Table 47. Shenzhen Extender Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 48. Shenzhen Extender Product Portfolio

Table 49. Shenzhen Extender Recent Developments

Table 50. Voir-tech H2 Fuel Cell Humidifier Company Information

Table 51. Voir-tech H2 Business Overview

Table 52. Voir-tech H2 Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 53. Voir-tech H2 Product Portfolio

Table 54. Voir-tech H2 Recent Developments

Table 55. Emprise Fuel Cell Humidifier Company Information

Table 56. Emprise Business Overview

Table 57. Emprise Fuel Cell Humidifier Production (Units), Value (US\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 58. Emprise Product Portfolio



Table 59. Emprise Recent Developments

Table 60. Global Fuel Cell Humidifier Production Comparison by Region: 2018 VS 2022 VS 2029 (Units)

Table 61. Global Fuel Cell Humidifier Production by Region (2018-2023) & (Units)

Table 62. Global Fuel Cell Humidifier Production Market Share by Region (2018-2023)

Table 63. Global Fuel Cell Humidifier Production Forecast by Region (2024-2029) & (Units)

Table 64. Global Fuel Cell Humidifier Production Market Share Forecast by Region (2024-2029)

Table 65. Global Fuel Cell Humidifier Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Table 66. Global Fuel Cell Humidifier Production Value by Region (2018-2023) & (US\$ Million)

Table 67. Global Fuel Cell Humidifier Production Value Market Share by Region (2018-2023)

Table 68. Global Fuel Cell Humidifier Production Value Forecast by Region (2024-2029) & (US\$ Million)

Table 69. Global Fuel Cell Humidifier Production Value Market Share Forecast by Region (2024-2029)

Table 70. Global Fuel Cell Humidifier Market Average Price (US\$/Unit) by Region (2018-2023)

Table 71. Global Fuel Cell Humidifier Consumption Comparison by Region: 2018 VS 2022 VS 2029 (Units)

Table 72. Global Fuel Cell Humidifier Consumption by Region (2018-2023) & (Units)

Table 73. Global Fuel Cell Humidifier Consumption Market Share by Region (2018-2023)

Table 74. Global Fuel Cell Humidifier Forecasted Consumption by Region (2024-2029) & (Units)

Table 75. Global Fuel Cell Humidifier Forecasted Consumption Market Share by Region (2024-2029)

Table 76. North America Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Units)

Table 77. North America Fuel Cell Humidifier Consumption by Country (2018-2023) & (Units)

Table 78. North America Fuel Cell Humidifier Consumption by Country (2024-2029) & (Units)

Table 79. Europe Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Units)

Table 80. Europe Fuel Cell Humidifier Consumption by Country (2018-2023) & (Units)

Table 81. Europe Fuel Cell Humidifier Consumption by Country (2024-2029) & (Units)

Table 82. Asia Pacific Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Units)

Table 83. Asia Pacific Fuel Cell Humidifier Consumption by Country (2018-2023) & (Units)

Table 84. Asia Pacific Fuel Cell Humidifier Consumption by Country (2024-2029) & (Units)

Table 85. Latin America, Middle East & Africa Fuel Cell Humidifier Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Units)

Table 86. Latin America, Middle East & Africa Fuel Cell Humidifier Consumption by Country (2018-2023) & (Units)

Table 87. Latin America, Middle East & Africa Fuel Cell Humidifier Consumption by Country (2024-2029) & (Units)

Table 88. Global Fuel Cell Humidifier Production by Type (2018-2023) & (Units)

Table 89. Global Fuel Cell Humidifier Production by Type (2024-2029) & (Units)

Table 90. Global Fuel Cell Humidifier Production Market Share by Type (2018-2023)

Table 91. Global Fuel Cell Humidifier Production Market Share by Type (2024-2029)

Table 92. Global Fuel Cell Humidifier Production Value by Type (2018-2023) & (US\$ Million)

Table 93. Global Fuel Cell Humidifier Production Value by Type (2024-2029) & (US\$ Million)

Table 94. Global Fuel Cell Humidifier Production Value Market Share by Type (2018-2023)

Table 95. Global Fuel Cell Humidifier Production Value Market Share by Type (2024-2029)

Table 96. Global Fuel Cell Humidifier Price by Type (2018-2023) & (US\$/Unit)

Table 97. Global Fuel Cell Humidifier Price by Type (2024-2029) & (US\$/Unit)

Table 98. Global Fuel Cell Humidifier Production by Application (2018-2023) & (Units)

Table 99. Global Fuel Cell Humidifier Production by Application (2024-2029) & (Units)

Table 100. Global Fuel Cell Humidifier Production Market Share by Application (2018-2023)

Table 101. Global Fuel Cell Humidifier Production Market Share by Application (2024-2029)

Table 102. Global Fuel Cell Humidifier Production Value by Application (2018-2023) & (US\$ Million)

Table 103. Global Fuel Cell Humidifier Production Value by Application (2024-2029) & (US\$ Million)

Table 104. Global Fuel Cell Humidifier Production Value Market Share by Application (2018-2023)

Table 105. Global Fuel Cell Humidifier Production Value Market Share by Application (2024-2029)

Table 106. Global Fuel Cell Humidifier Price by Application (2018-2023) & (US\$/Unit)

Table 107. Global Fuel Cell Humidifier Price by Application (2024-2029) & (US\$/Unit)

Table 108. Key Raw Materials

Table 109. Raw Materials Key Suppliers

Table 110. Fuel Cell Humidifier Distributors List

Table 111. Fuel Cell Humidifier Customers List

Table 112. Fuel Cell Humidifier Industry Trends

Table 113. Fuel Cell Humidifier Industry Drivers

Table 114. Fuel Cell Humidifier Industry Restraints

Table 115. Authors List of This Report

## List Of Figures

### LIST OF FIGURES

Figure 1. Research Methodology

Figure 2. Research Process

Figure 3. Key Executives Interviewed

Figure 4. Fuel Cell Humidifier Product Picture

Figure 5. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Figure 6. Below 50KW Product Picture

Figure 7. 50-80KW Product Picture

Figure 8. 100-120KW Product Picture

Figure 9. Above 120KW Product Picture

Figure 10. Passenger Vehicle Product Picture

Figure 11. Bus Product Picture

Figure 12. Special Vehicles (Medium and Heavy Trucks, etc) Product Picture

Figure 13. Others Product Picture

Figure . Global Fuel Cell Humidifier Production Value (US\$ Million), 2018 VS 2022 VS 2029

Figure 1. Global Fuel Cell Humidifier Production Value (2018-2029) & (US\$ Million)

Figure 2. Global Fuel Cell Humidifier Production Capacity (2018-2029) & (Units)

Figure 3. Global Fuel Cell Humidifier Production (2018-2029) & (Units)

Figure 4. Global Fuel Cell Humidifier Average Price (US\$/Unit) & (2018-2029)

Figure 5. Global Fuel Cell Humidifier Key Manufacturers, Manufacturing Sites & Headquarters

Figure 6. Global Fuel Cell Humidifier Manufacturers, Date of Enter into This Industry

Figure 7. Global Top 5 and 10 Fuel Cell Humidifier Players Market Share by Production Value in 2022

Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2018 VS 2022

Figure 9. Global Fuel Cell Humidifier Production Comparison by Region: 2018 VS 2022 VS 2029 (Units)

Figure 10. Global Fuel Cell Humidifier Production Market Share by Region: 2018 VS 2022 VS 2029

Figure 11. Global Fuel Cell Humidifier Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Figure 12. Global Fuel Cell Humidifier Production Value Market Share by Region: 2018 VS 2022 VS 2029

Figure 13. North America Fuel Cell Humidifier Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 14. Europe Fuel Cell Humidifier Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 15. China Fuel Cell Humidifier Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 16. Japan Fuel Cell Humidifier Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 17. Global Fuel Cell Humidifier Consumption Comparison by Region: 2018 VS 2022 VS 2029 (Units)

Figure 18. Global Fuel Cell Humidifier Consumption Market Share by Region: 2018 VS 2022 VS 2029

Figure 19. North America Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 20. North America Fuel Cell Humidifier Consumption Market Share by Country (2018-2029)

Figure 21. United States Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 22. Canada Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 23. Europe Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 24. Europe Fuel Cell Humidifier Consumption Market Share by Country (2018-2029)

Figure 25. Germany Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 26. France Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 27. U.K. Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 28. Italy Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 29. Netherlands Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 30. Asia Pacific Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 31. Asia Pacific Fuel Cell Humidifier Consumption Market Share by Country (2018-2029)

Figure 32. China Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 33. Japan Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) &

(Units)

Figure 34. South Korea Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 35. China Taiwan Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 36. Southeast Asia Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 37. India Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 38. Australia Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 39. Latin America, Middle East & Africa Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 40. Latin America, Middle East & Africa Fuel Cell Humidifier Consumption Market Share by Country (2018-2029)

Figure 41. Mexico Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 42. Brazil Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 43. Turkey Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 44. GCC Countries Fuel Cell Humidifier Consumption and Growth Rate (2018-2029) & (Units)

Figure 45. Global Fuel Cell Humidifier Production Market Share by Type (2018-2029)

Figure 46. Global Fuel Cell Humidifier Production Value Market Share by Type (2018-2029)

Figure 47. Global Fuel Cell Humidifier Price (US\$/Unit) by Type (2018-2029)

Figure 48. Global Fuel Cell Humidifier Production Market Share by Application (2018-2029)

Figure 49. Global Fuel Cell Humidifier Production Value Market Share by Application (2018-2029)

Figure 50. Global Fuel Cell Humidifier Price (US\$/Unit) by Application (2018-2029)

Figure 51. Fuel Cell Humidifier Value Chain

Figure 52. Fuel Cell Humidifier Production Mode & Process

Figure 53. Direct Comparison with Distribution Share

Figure 54. Distributors Profiles

Figure 55. Fuel Cell Humidifier Industry Opportunities and Challenges

Highlights



The global Fuel Cell Humidifier market is projected to reach US\$ million by 2028 from an estimated US\$ million in 2022, at a CAGR of % during 2024 and 2029.

North American market for Fuel Cell Humidifier is estimated to increase from \$ million in 2022 to reach \$ million by 2028, at a CAGR of % during the forecast period of 2023 through 2028.

Asia-Pacific market for Fuel Cell Humidifier is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

The major global companies of Fuel Cell Humidifier include Perma Pure LLC, Mann+Hummel, Freudenberg Filtration Technologies, KOLON, Pentair Engineered Filtration, DPoint Technologies, Shenzhen Extender, Voir-tech H2 and Emprise, etc. In 2022, the world's top three vendors accounted for approximately % of the revenue.

The global market for Fuel Cell Humidifier in Passenger Vehicle is estimated to increase from \$ million in 2023 to \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Considering the economic change due to COVID-19 and Russia-Ukraine War Influence, Below 50KW, which accounted for % of the global market of Fuel Cell Humidifier in 2022, is expected to reach million US\$ by 2029, growing at a revised CAGR of % from 2023 to 2029.

#### Report Scope

This report aims to provide a comprehensive presentation of the global market for Fuel Cell Humidifier, 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 Fuel Cell Humidifier.

The Fuel Cell Humidifier market size, estimations, and forecasts are provided in terms of output/shipments (Units) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Fuel Cell Humidifier market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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.

The report will help the Fuel Cell Humidifier manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

## 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 2017-2022. 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:

Perma Pure LLC

Mann+Hummel

Freudenberg Filtration Technologies

KOLON

Pentair Engineered Filtration

DPoint Technologies

Shenzhen Extender

Voir-tech H2



## I would like to order

Product name: Fuel Cell Humidifier Industry Research Report 2023

Product link: <https://marketpublishers.com/r/F2C1B0EAA484EN.html>

Price: US\$ 2,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F2C1B0EAA484EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970