

Global Atmospheric Water Collection System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Atmospheric Water Collection System market size was valued at US\$ 2975 million in 2025 and is forecast to a readjusted size of US\$ 5208 million by 2032 with a CAGR of 8.3% during review period.

An atmospheric water collection system is a device or system that utilizes atmospheric water vapor, fog, dew, or humid air as a water source, converting this atmospheric moisture into collectible liquid water through processes such as condensation, adsorption-desorption, membrane separation, fog netting, or heat pump refrigeration. Typically comprising an air collection unit, filtration and purification apparatus, condensation or adsorption material modules, a heat exchange system, a water storage tank, a water treatment unit, a control system, and a power supply system, these systems serve as a supplementary water source in regions lacking a stable supply of surface or groundwater. These systems are widely deployed in scenarios such as arid and water-scarce regions, islands, remote camps, emergency relief operations, military support, agricultural irrigation, outdoor facilities, decentralized drinking water supply, and green buildings; their core value lies in enabling the development of non-traditional water sources, decentralized water production, and guaranteed emergency water supply.

The upstream segment of the atmospheric water collection system industry chain primarily encompasses components such as compressors, condensers, evaporators, fans, heat exchangers, adsorption materials, membrane materials, filter cartridges, UV sterilization modules, water storage tanks, pumps, sensors, controllers, power modules, photovoltaic components, and structural parts. Among these, the compressor, heat

exchange system, adsorption/condensation materials, and water purification modules are critical determinants of the system's water production efficiency, energy consumption levels, and the safety of the output water. The midstream segment consists of atmospheric water harvesting system manufacturers and system integrators, who are responsible for air collection, condensation-based water extraction, adsorption-desorption processes, fog harvesting, filtration and sterilization, water storage and supply, intelligent control, and energy system integration. Product forms in this segment range from household atmospheric water generators and commercial-scale atmospheric water extraction equipment to containerized water production systems, solar-powered atmospheric water systems, and fog collection netting systems. The downstream segment primarily serves applications in water-scarce regions, islands, desert camps, military logistics, emergency relief, outdoor facilities, agricultural irrigation, green buildings, industrial and commercial parks, and decentralized drinking water supply networks. The gross profit margin for atmospheric water collection systems stands at approximately 35%.

In 2025, the average unit price for atmospheric water collection system is projected to be \$7,100, with a sales volume of 407.2 k units and a total production capacity of 580 k units.

The value of atmospheric water collection systems lies in their ability to provide a distributed, non-traditional supplement to water sources. In water-scarce regions, island communities, desert camps, remote settlements, and emergency relief scenarios, traditional water supply methods often rely on pipeline networks, groundwater, or transported supplies?approaches that are both costly and inherently unstable. By directly extracting moisture from the air, atmospheric water harvesting systems can, to a significant extent, reduce dependence on centralized water sources and long-distance water transport; they are particularly well-suited for water supply scenarios that require small-scale, decentralized, temporary, or high-assurance solutions.

The key to the industry's growth lies not merely in the ability to generate water, but rather in energy efficiency, water quality, and environmental adaptability. The practical performance of atmospheric water harvesting systems is heavily influenced by factors such as air humidity, temperature, energy costs, and maintenance conditions. In low-humidity environments, where water production efficiency declines and the cost per unit of water rises, significant limitations arise regarding the widespread adoption of this technology. Consequently, the focal point of corporate competition will center on areas such as high-efficiency heat exchange, low-energy compressors, advanced adsorbent materials, solar power integration, multi-stage filtration and sterilization, and intelligent

control systems. Only by striking a balance between water production costs, water safety, and operational stability can these products establish a solid foundation for large-scale commercialization.

In the future, atmospheric water collection systems are poised to evolve toward integration with green energy sources, modular design, and scenario-specific customization. Driven by growing demands for water security, emergency preparedness, and off-grid energy solutions, these systems will increasingly be integrated with photovoltaic power generation, energy storage, microgrids, and intelligent water quality monitoring systems to form autonomous, distributed water supply units. Future residential and commercial units will trend toward miniaturization, low-noise operation, and minimal maintenance requirements; conversely, industrial and emergency response systems will be upgraded to feature containerized designs, high-capacity output, modular parallel configurations, and rapid deployment capabilities. These advancements hold significant potential for application in military logistics, disaster relief, island water supply, green building initiatives, and water provision in remote regions.

This report is a detailed and comprehensive analysis for global Atmospheric Water Collection System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Atmospheric Water Collection System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Atmospheric Water Collection System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Atmospheric Water Collection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Atmospheric Water Collection System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Atmospheric Water Collection System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Atmospheric Water Collection System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SOURCE Global, SkyH2O, Genesis Systems, Aquaria, Snowbird Technologies, SunToWater Technologies, GR8 Water, AWG Water Technologies, GENAQ Technologies, Aquaer Generator, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Atmospheric Water Collection System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Grid-Connected Type

PV-Powered Type

Hybrid Power Type

Market segment by Daily Water Output

Small-Scale Residential (<20 Liters/Day)

Medium-Scale Commercial (20-500 Liters/Day)

Large-Scale Industrial (500-5,000 Liters/Day)

Market segment by Energy Consumption

High-Efficiency Type

Standard Type

High-Energy-Consumption Type

Market segment by Application

Residential Zone

Commercial Zone

Industrial Zone

Others

Major players covered

SOURCE Global

SkyH2O

Genesis Systems

Aquaria

Snowbird Technologies

SunToWater Technologies

GR8 Water

AWG Water Technologies

GENAQ Technologies

Aquaer Generator

Drupps

AWG Europe

Hangzhou Haolin Water Technology

Hangzhou Luta Electrical Appliance

Shenzhen FND Environmental Technology

MIZUHA

Enell

Skywater Japan

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Atmospheric Water Collection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Atmospheric Water Collection System, with price, sales quantity, revenue, and global market share of Atmospheric Water Collection System from 2021 to 2026.

Chapter 3, the Atmospheric Water Collection System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Atmospheric Water Collection System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Atmospheric Water Collection System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Atmospheric Water Collection System.

Chapter 14 and 15, to describe Atmospheric Water Collection System sales channel,

distributors, customers, research findings and conclusion.

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