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Global Ammonia Gas Drying Unit 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 Ammonia Gas Drying Unit market size was valued at US$ 28.15 million in 2025 and is forecast to a readjusted size of US$ 42.55 million by 2032 with a CAGR of 6.1% during review period.

In 2025, global sales of Ammonia Gas Drying Units were approximately 720 units, with an average selling price of about US$38,000 per unit at the manufacturer level. The gross margin of major manufacturers was approximately 30%–40%.

An Ammonia Gas Drying Unit is a dedicated gas purification system designed to remove moisture from gaseous ammonia (NH?). Its processing medium is gaseous ammonia rather than liquid ammonia or the hydrogen-nitrogen mixture produced by ammonia dissociation. In typical operation, liquid ammonia is first vaporized into gaseous ammonia and then introduced into the drying unit, where molecular sieves or other specialized adsorbents remove moisture and reduce the water content to achieve the specified outlet dew point. The system generally consists of adsorption towers, filters, heating and regeneration units, valve assemblies, instrumentation, and an automatic control system. Industrial units commonly adopt a twin-tower configuration, with one tower drying the ammonia gas while the other regenerates the adsorbent, enabling continuous gas supply.

The upstream supply chain mainly includes liquid ammonia, molecular sieves and specialized adsorbents, stainless-steel pressure vessels, valves, filters, heaters, piping, dew point meters, moisture analyzers, and automatic control systems. Adsorbent performance, system sealing integrity, and regeneration control directly affect drying depth and operational stability. On the downstream side, Ammonia Gas Drying Units

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are typically integrated with liquid ammonia vaporization and ammonia gas supply systems. The dried ammonia gas is mainly used in metal heat treatment processes such as nitriding, and can also serve as a high-purity ammonia feed gas in semiconductor, photovoltaic, LED, and other electronics manufacturing processes. For electronic-grade applications, ammonia drying is often integrated with deep purification functions for the removal of oxygen, carbon dioxide, hydrocarbons, and other trace impurities to meet more stringent impurity control requirements.

Report Scope

This report is a detailed and comprehensive analysis for global Ammonia Gas Drying Unit 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 Ammonia Gas Drying Unit market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Ammonia Gas Drying Unit market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Ammonia Gas Drying Unit 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 Ammonia Gas Drying Unit 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:

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

To assess the growth potential for Ammonia Gas Drying Unit

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 Ammonia Gas Drying Unit 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 Entegris, MATHESON, Air Water Mechatronics, Nitrex Metal, Suzhou Since Gas Technology, Suzhou Weiheng Gas Technology, Suzhou Ruizhetong Automation Technology, Suzhou Jinpai Gas Equipment, Suzhou Sumairui Gas System, GESO Systems, etc.

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

Ammonia Gas Drying Unit 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 Segmentation

Market segment by Type

Standard Drying (Outlet Dew Point >-40°C)

Deep Drying (Outlet Dew Point >-60°C to -40°C)

Ultra-Deep Drying (Outlet Dew Point ?-60°C)

Market segment by Processing Capacity

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?50 Nm³/h

>50–200 Nm³/h

>200 Nm³/h

Market segment by Application

Metal Heat Treatment

Semiconductor Manufacturing

Photovoltaic Manufacturing

LED and Optoelectronics

Chemical Industry

Other

Major players covered

Entegris

MATHESON

Air Water Mechatronics

Nitrex Metal

Suzhou Since Gas Technology

Suzhou Weiheng Gas Technology

Suzhou Ruizhetong Automation Technology

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Suzhou Jinpai Gas Equipment

Suzhou Sumairui Gas System

GESO Systems

Dalian Kaiteli Catalytic Engineering Technology

Dalian Zhongding Chemical

Dalian Huabang Chemical

Suzhou Qingbang Machinery

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)

Chapter Outline

Chapter 1, to describe Ammonia Gas Drying Unit product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ammonia Gas Drying Unit, with price, sales quantity, revenue, and global market share of Ammonia Gas Drying Unit from 2021 to 2026.

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Chapter 3, the Ammonia Gas Drying Unit competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ammonia Gas Drying Unit 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 Ammonia Gas Drying Unit 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 Ammonia Gas Drying Unit.

Chapter 14 and 15, to describe Ammonia Gas Drying Unit sales channel, distributors, customers, research findings and conclusion.

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