

Global Ammonia Gas Drying Unit Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ammonia Gas Drying Unit market size is expected to reach \$ 42.55 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

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_3). 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 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 studies the global Ammonia Gas Drying Unit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ammonia Gas Drying Unit and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ammonia Gas Drying Unit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ammonia Gas Drying Unit total production and demand, 2021-2032, (Units)

Global Ammonia Gas Drying Unit total production value, 2021-2032, (USD Million)

Global Ammonia Gas Drying Unit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ammonia Gas Drying Unit consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ammonia Gas Drying Unit domestic production, consumption, key domestic manufacturers and share

Global Ammonia Gas Drying Unit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ammonia Gas Drying Unit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ammonia Gas Drying Unit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ammonia Gas Drying Unit market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ammonia Gas Drying Unit market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ammonia Gas Drying Unit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Ammonia Gas Drying Unit Market, Segmentation by Type:

Standard Drying (Outlet Dew Point $>-40^{\circ}\text{C}$)

Deep Drying (Outlet Dew Point $>-60^{\circ}\text{C}$ to -40°C)

Ultra-Deep Drying (Outlet Dew Point $\geq -60^{\circ}\text{C}$)

Global Ammonia Gas Drying Unit Market, Segmentation by Processing Capacity:

$\leq 50 \text{ Nm}^3/\text{h}$

$>50\text{--}200 \text{ Nm}^3/\text{h}$

$>200 \text{ Nm}^3/\text{h}$

Global Ammonia Gas Drying Unit Market, Segmentation by Application:

Metal Heat Treatment

Semiconductor Manufacturing

Photovoltaic Manufacturing

LED and Optoelectronics

Chemical Industry

Other

Companies Profiled:

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

Dalian Kaiteli Catalytic Engineering Technology

Dalian Zhongding Chemical

Dalian Huabang Chemical

Suzhou Qingbang Machinery

Key Questions Answered

1. How big is the global Ammonia Gas Drying Unit market?
2. What is the demand of the global Ammonia Gas Drying Unit market?
3. What is the year over year growth of the global Ammonia Gas Drying Unit market?
4. What is the total value of the global Ammonia Gas Drying Unit market?
5. Who are the Major Players in the global Ammonia Gas Drying Unit market?
6. What are the growth factors driving the market demand?

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