

# Global Water-cooled Refrigerated Air Dryer Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Water-cooled Refrigerated Air Dryer market size is expected to reach \$ 8007 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global sales of water-cooled refrigerated air dryers reached 420,000 units, with an average selling price of US\$12,500. Water-cooled refrigerated air dryers are air post-processing devices that cool compressed air below the dew point and separate moisture through a refrigeration system. Utilizing water-cooled condensation, they are suitable for continuous operation, high loads, and high ambient temperature conditions, and can stably control the pressure dew point between 2°C and 10°C. They are widely used in manufacturing, chemical, electronics, food and beverage, and pharmaceutical industries. The main upstream raw materials include carbon steel and stainless steel heat exchangers, copper pipes, refrigeration compressors, refrigerants, controllers, water valves, and insulation materials. Heat exchangers and compressors together account for approximately 60% of the material cost. The average consumption per unit is approximately 180 kg of steel, 35 kg of copper, and 3.6 kg of refrigerant. The midstream is handled by compressed air system and drying equipment manufacturers, who complete the overall design and assembly. The global total production capacity is approximately 500,000 units per year. Downstream supply relationships are primarily with industrial users. In terms of downstream consumption, general manufacturing accounts for approximately 40%, chemicals and energy for about 25%, food and beverage and pharmaceuticals for about 20%, and electronics and other industries for about 15%. The industry's average gross profit margin is approximately 28%-34%. Future growth lies in upgrading towards high-efficiency heat exchange structures, environmentally friendly refrigerants, and modular integration. Against the backdrop of manufacturing automation upgrades, energy-saving retrofits of compressed air systems, and the industrialization of emerging markets, the demand for water-cooled refrigerated

air dryers maintains steady growth, presenting a sustained business opportunity centered on replacement of existing stock and penetration of high-end models.

This report studies the global Water-cooled Refrigerated Air Dryer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Water-cooled Refrigerated Air Dryer 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 Water-cooled Refrigerated Air Dryer that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Water-cooled Refrigerated Air Dryer total production and demand, 2021-2032, (K Units)

Global Water-cooled Refrigerated Air Dryer total production value, 2021-2032, (USD Million)

Global Water-cooled Refrigerated Air Dryer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Water-cooled Refrigerated Air Dryer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Water-cooled Refrigerated Air Dryer domestic production, consumption, key domestic manufacturers and share

Global Water-cooled Refrigerated Air Dryer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Water-cooled Refrigerated Air Dryer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Water-cooled Refrigerated Air Dryer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Water-cooled Refrigerated Air Dryer 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 Atlas Copco, Pneumatech, Sollant, RISHENG, NiGen International, MINNUO, LINGYU, SHANLI, Mellcon Engineers, HighQ Compressor, 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 Water-cooled Refrigerated Air Dryer market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Water-cooled Refrigerated Air Dryer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Water-cooled Refrigerated Air Dryer Market, Segmentation by Type:

Piston Refrigeration System

Scroll Refrigeration System

Screw Refrigeration System

Variable Frequency Refrigeration System

Global Water-cooled Refrigerated Air Dryer Market, Segmentation by Heat Exchanger Design:

Shell and Tube Heat Exchanger

Plate and Fin Heat Exchanger

## Co-fiber Heat Exchanger

Global Water-cooled Refrigerated Air Dryer Market, Segmentation by Operating Pressure:

Operating Pressure: 0.7 MPa - 1.0 MPa

Operating Pressure: 1.0 MPa - 1.6 MPa

Global Water-cooled Refrigerated Air Dryer Market, Segmentation by Application:

Manufacturing

Chemicals

Electronics

Others

## **Companies Profiled:**

Atlas Copco

Pneumatech

Sollant

RISHENG

NiGen International

MINNUO

LINGYU

SHANLI

Mellcon Engineers

HighQ Compressor

Dream (Shanghai) Compressor Co., Ltd.

Apureda

General Compression

Kobelco

SAIFUAIR

**Key Questions Answered:**

1. How big is the global Water-cooled Refrigerated Air Dryer market?
2. What is the demand of the global Water-cooled Refrigerated Air Dryer market?
3. What is the year over year growth of the global Water-cooled Refrigerated Air Dryer market?
4. What is the production and production value of the global Water-cooled Refrigerated Air Dryer market?
5. Who are the key producers in the global Water-cooled Refrigerated Air Dryer market?
6. What are the growth factors driving the market demand?

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