

Global Closed-loop Heat Pump Drying System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Closed-loop Heat Pump Drying System market size is expected to reach \$ 2139 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, the global production capacity of closed-loop heat pump drying system was approximately 20,978 units.

Closed-loop Heat Pump Drying Systems are energy-efficient drying equipment that recover latent and sensible heat from moist exhaust air and reuse it within a sealed circulation structure. They reduce external air exchange, lower energy consumption, and provide stable temperature and humidity control during drying. These systems are suitable for heat-sensitive materials, high-value agricultural products, food ingredients, pharmaceuticals, chemicals, wood, sludge, and industrial components. Their main advantages include low-temperature drying, reduced emissions, improved product quality, shorter drying cycles, and better process controllability compared with conventional hot-air drying equipment.

The industrial chain of Closed-loop Heat Pump Drying Systems covers upstream compressors, evaporators, condensers, fans, heat exchangers, sensors, control boards, insulation materials, drying chambers, and refrigerants. The midstream consists of system design, heat pump integration, air circulation structure, dehumidification control, automation software, assembly, and testing. Downstream applications mainly include food drying, agricultural processing, pharmaceutical drying, chemical materials, wood treatment, sludge reduction, and precision industrial drying. Related services include process parameter setting, installation, commissioning, energy-efficiency optimization, maintenance, and drying curve adjustment for different materials and moisture

requirements.

This report studies the global Closed-loop Heat Pump Drying System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Closed-loop Heat Pump Drying System 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 Closed-loop Heat Pump Drying System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Closed-loop Heat Pump Drying System total production and demand, 2021-2032, (Units)

Global Closed-loop Heat Pump Drying System total production value, 2021-2032, (USD Million)

Global Closed-loop Heat Pump Drying System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Closed-loop Heat Pump Drying System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Closed-loop Heat Pump Drying System domestic production, consumption, key domestic manufacturers and share

Global Closed-loop Heat Pump Drying System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Closed-loop Heat Pump Drying System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Closed-loop Heat Pump Drying System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Closed-loop Heat Pump Drying System 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 Midea, Gree, Haier, Hisense, TCL, Danfoss, Grundfos, Panasonic, Mitsubishi Electric, Hitachi, 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 Closed-loop Heat Pump Drying System 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 Closed-loop Heat Pump Drying System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Closed-loop Heat Pump Drying System Market, Segmentation by Type:

Air-source Closed-loop Heat Pump Drying System

Water-source Closed-loop Heat Pump Drying System

Hybrid-source Closed-loop Heat Pump Drying System

Global Closed-loop Heat Pump Drying System Market, Segmentation by Drying Structure:

Cabinet Closed-loop Heat Pump Drying System

Belt Closed-loop Heat Pump Drying System

Tunnel Closed-loop Heat Pump Drying System

Global Closed-loop Heat Pump Drying System Market, Segmentation by Drying Temperature Range:

Low-temperature Drying System ($\leq 50^{\circ}\text{C}$)

Medium-temperature Drying System ($50\text{--}80^{\circ}\text{C}$)

High-temperature Drying System ($> 80^{\circ}\text{C}$)

Global Closed-loop Heat Pump Drying System Market, Segmentation by Application:

Agricultural Product Drying

Food Ingredient Drying

Chemical and Pharmaceutical Material Drying

Others

Companies Profiled:

Midea

Gree

Haier

Hisense

TCL

Danfoss

Grundfos

Panasonic

Mitsubishi Electric

Hitachi

Carrier

Trane

Lennox

Deye

Airmaster

Key Questions Answered:

1. How big is the global Closed-loop Heat Pump Drying System market?
2. What is the demand of the global Closed-loop Heat Pump Drying System market?
3. What is the year over year growth of the global Closed-loop Heat Pump Drying System market?
4. What is the production and production value of the global Closed-loop Heat Pump Drying System market?
5. Who are the key producers in the global Closed-loop Heat Pump Drying System market?
6. What are the growth factors driving the market demand?

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