

# Global Heat Pump (>100°C) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GCD1527A11A1EN.html>

Date: August 2026

Pages: 109

Price: US\$ 4,480.00 (Single User License)

ID: GCD1527A11A1EN

## Abstracts

The global Heat Pump (>100°C) market size is expected to reach \$ 177 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

A Heat Pump (>100°C) is a heat pump system capable of upgrading low-grade heat sources (air, water, or industrial waste heat) to output heat above 100°C. Compared to traditional heat pumps (typically ~80°C), Heat Pump (>100°C) achieves higher temperature output levels through multi-stage compression, working fluid optimization (such as CO<sub>2</sub>, HFO, and mixed working fluids), and enhanced heat exchange design, making them suitable for industrial heating to replace boilers or steam systems. In 2025, global Heat Pump (>100°C) production reached approximately 1182 Units. The upstream of the Heat Pump (>100°C) industry includes key components such as compressors, heat exchangers, expansion valves, control systems, and refrigerants (CO<sub>2</sub>, HFOs, and blends).

Heat pumps (>100°C) are emerging as a key enabling technology for industrial decarbonization, upgrading low-grade or waste heat into useful thermal energy above 100°C for replacing natural gas boilers and steam-based heating systems. This enables the electrification of industrial process heat and significantly reduces carbon emissions across energy-intensive industries. The market is still in an early commercialization stage, but technology pathways are becoming increasingly clear, primarily including CO<sub>2</sub> transcritical cycles, multi-stage compression systems, and absorption-based heat pumps. Europe and Japan are leading in technology development and deployment, while China is entering a rapid adoption phase driven by policy support.

This report studies the global Heat Pump (>100°C) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heat Pump (>100?) 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 Heat Pump (>100?) that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Heat Pump (>100?) total production and demand, 2021-2032, (Units)

Global Heat Pump (>100?) total production value, 2021-2032, (USD Million)

Global Heat Pump (>100?) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Heat Pump (>100?) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Heat Pump (>100?) domestic production, consumption, key domestic manufacturers and share

Global Heat Pump (>100?) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Heat Pump (>100?) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Heat Pump (>100?) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Heat Pump (>100?) 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 Kobe Steel, Mayekawa, Combitherm, ENGIE Deutschland, Frigopol, IBK Group (OCHSNER), Hybrid Energy, Oilon, Moon Environment Technology, 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 Heat Pump (>100?) market

#### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Units) and average price (K 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 Heat Pump (>100?) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Heat Pump (>100?) Market, Segmentation by Type:

Output Temperatures 100°C - 120°C

Output Temperatures 121°C - 140°C

Output Temperatures >140°C

#### Global Heat Pump (>100?) Market, Segmentation by Heat Source:

Air-source

Water-source

Others

Global Heat Pump (>100?) Market, Segmentation by Thermal System Routes:

Vapor Compression

Absorption Heat Transformer (AHT)

Mechanical Vapor Recompression (MVR hybrid)

Cascade Multi-stage Systems

Global Heat Pump (>100?) Market, Segmentation by Application:

Food Industry

Machinery Manufacturing

Chemical

Electronics and Semiconductors

Oil Refining Industry

Metal Industry

Others

Companies Profiled:

Kobe Steel

Mayekawa

Combitherm

ENGIE Deutschland

Frigopol

IBK Group (OCHSNER)

Hybrid Energy

Oilon

Moon Environment Technology

Key Questions Answered:

1. How big is the global Heat Pump (>100?) market?
2. What is the demand of the global Heat Pump (>100?) market?
3. What is the year over year growth of the global Heat Pump (>100?) market?
4. What is the production and production value of the global Heat Pump (>100?) market?
5. Who are the key producers in the global Heat Pump (>100?) market?
6. What are the growth factors driving the market demand?

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