

Global Solar Assisted Heat Pump (SAHP) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Assisted Heat Pump (SAHP) market size is expected to reach \$ 3698 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Solar Assisted Heat Pumps are hybrid heating systems that integrate solar energy collection with heat pump technology to improve overall system efficiency and reduce electricity consumption. In 2025, the average global unit price is approximately US\$5,800 per system, with annual global sales volume and production both estimated at around 310,000 units. The industry typically maintains a gross margin range of 30%-45%, supported by system-level integration value, thermal efficiency optimization, government incentive programs, and increasing demand for low-carbon heating solutions. The supply chain includes upstream components such as solar thermal collectors or photovoltaic panels, compressors, heat exchangers, control units, refrigerants, and storage tanks; midstream manufacturers focus on system integration, control algorithm development, assembly, testing, and certification; downstream users include residential households, commercial buildings, public facilities, and energy service companies.

In 2025, the market for solar-assisted heat pump systems continues to expand as governments promote building decarbonization and renewable heating solutions. SAHP systems benefit from higher seasonal performance factors compared to conventional heat pumps, especially in regions with strong solar irradiation. Demand is primarily driven by residential retrofitting, new energy-efficient buildings, and public-sector decarbonization projects. Although system complexity and higher upfront costs remain barriers, long-term energy savings, subsidy schemes, and tightening carbon regulations support sustained adoption.

This report studies the global Solar Assisted Heat Pump (SAHP) production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Solar Assisted Heat Pump (SAHP) total production and demand, 2021-2032, (K Units)

Global Solar Assisted Heat Pump (SAHP) total production value, 2021-2032, (USD Million)

Global Solar Assisted Heat Pump (SAHP) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solar Assisted Heat Pump (SAHP) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solar Assisted Heat Pump (SAHP) domestic production, consumption, key domestic manufacturers and share

Global Solar Assisted Heat Pump (SAHP) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solar Assisted Heat Pump (SAHP) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solar Assisted Heat Pump (SAHP) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solar Assisted Heat Pump (SAHP) 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 Mitsubishi Electric, Daikin Industries, Bosch Thermotechnology, Viessmann Group, Stiebel Eltron, NIBE Energy Systems, Panasonic Corporation, Carrier Corporation, Trane Technologies, A. O. Smith Corporation, 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 Solar Assisted Heat Pump (SAHP) 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 Solar Assisted Heat Pump (SAHP) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Assisted Heat Pump (SAHP) Market, Segmentation by Type:

Solar Thermal + Heat Pump

PV + Heat Pump

Hybrid PV-T System

Global Solar Assisted Heat Pump (SAHP) Market, Segmentation by Heat Pump Type:

Air-to-Water

Ground Source

Water Source

Global Solar Assisted Heat Pump (SAHP) Market, Segmentation by System Configuration:

Integrated System

Split System

Global Solar Assisted Heat Pump (SAHP) Market, Segmentation by Application:

Commercial

Residential

Other

Companies Profiled:

Mitsubishi Electric

Daikin Industries

Bosch Thermotechnology

Viessmann Group

Stiebel Eltron

NIBE Energy Systems

Panasonic Corporation

Carrier Corporation

Trane Technologies

A. O. Smith Corporation

Ecoforest

WaterFurnace International

Wolf GmbH

Vaillant Group

Key Questions Answered:

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

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