

Global Passive Heat Pipe Heat Exchanger Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Passive Heat Pipe Heat Exchanger market size is expected to reach \$ 2220 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

A Passive Heat Pipe Heat Exchanger is a high-efficiency thermal transfer device that uses sealed heat pipes or thermosyphons containing a working fluid to transfer heat between two media via phase change (evaporation and condensation) without external power or moving parts, enabling reliable, compact, and energy-efficient heat recovery or cooling across HVAC, industrial, and electronics applications.

The passive heat pipe heat exchanger industry chain begins upstream with suppliers of metals such as copper, aluminum, and stainless steel, working fluids like water and ammonia, and precision manufacturing equipment, followed by midstream manufacturers who design and fabricate heat pipes, wick structures, and exchanger modules through processes including vacuum sealing, charging, and thermal testing, and extends downstream to system integrators and end users in HVAC, industrial waste heat recovery, electronics cooling, and energy sectors, where products are distributed through OEM partnerships and engineering contractors, supported by maintenance services, regulatory compliance, and energy efficiency initiatives driving adoption.

Ongoing and planned projects globally include large-scale HVAC energy recovery installations in commercial buildings and hospitals, industrial waste heat recovery systems in steel, cement, and petrochemical plants, deployment of passive cooling units in telecom base stations and data centers, integration into renewable energy systems such as solar thermal plants, and development of advanced aerospace and defense thermal management systems, alongside pilot projects focusing on compact high-

efficiency exchangers and modular solutions in Asia-Pacific and North America, reflecting increasing investments in energy efficiency, carbon reduction, and sustainable infrastructure modernization.

2025 Global Market sales Volume: 1.8 Million Units, Average Global Market Price: USD 800 Per Unit, Market Average Gross Profit Margin: 30%.

This report studies the global Passive Heat Pipe Heat Exchanger production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Passive Heat Pipe Heat Exchanger 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 Passive Heat Pipe Heat Exchanger that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Passive Heat Pipe Heat Exchanger total production and demand, 2021-2032, (K Units)

Global Passive Heat Pipe Heat Exchanger total production value, 2021-2032, (USD Million)

Global Passive Heat Pipe Heat Exchanger production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Passive Heat Pipe Heat Exchanger consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Passive Heat Pipe Heat Exchanger domestic production, consumption, key domestic manufacturers and share

Global Passive Heat Pipe Heat Exchanger production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Passive Heat Pipe Heat Exchanger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Passive Heat Pipe Heat Exchanger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Passive Heat Pipe Heat Exchanger 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 Corporation, Munters Corporation, Maniks, AMSEnergy, Nortek Air Solutions, Spirax Sarco, Heat

Pipe Technology, LJUNGSTR?M, Noren Thermal Inc, 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 Passive Heat Pipe Heat Exchanger 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 Passive Heat Pipe Heat Exchanger Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Passive Heat Pipe Heat Exchanger Market, Segmentation by Type:

Air to Air

Air to Liquid

Global Passive Heat Pipe Heat Exchanger Market, Segmentation by Structure Type:

Heat Pipe Heat Exchanger

Thermosyphon Heat Exchanger

Loop Heat Pipe Exchanger

Vapor Chamber Heat Exchanger

Global Passive Heat Pipe Heat Exchanger Market, Segmentation by Material Type:

Copper Heat Pipe Exchanger

Aluminum Heat Pipe Exchanger

Stainless Steel Heat Pipe Exchanger

Global Passive Heat Pipe Heat Exchanger Market, Segmentation by Application:

Cabinet

Traction Convertor

Boilers

Kilns

Furnaces

Ovens

Othes

Companies Profiled:

Mitsubishi Electric Corporation

Munters Corporation

Maniks

AMSEnergy

Nortek Air Solutions

Spirax Sarco

Heat Pipe Technology

LJUNGSTR?M

Noren Thermal Inc

Key Questions Answered:

1. How big is the global Passive Heat Pipe Heat Exchanger market?
2. What is the demand of the global Passive Heat Pipe Heat Exchanger market?
3. What is the year over year growth of the global Passive Heat Pipe Heat Exchanger market?
4. What is the production and production value of the global Passive Heat Pipe Heat Exchanger market?
5. Who are the key producers in the global Passive Heat Pipe Heat Exchanger market?
6. What are the growth factors driving the market demand?

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