

Global Passive Heat Pipe Heat Exchanger Market Growth 2026-2032

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Abstracts

The global Passive Heat Pipe Heat Exchanger market size is predicted to grow from US\$ 1409 million in 2025 to US\$ 2157 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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%.

United States market for Passive Heat Pipe Heat Exchanger is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Passive Heat Pipe Heat Exchanger is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Passive Heat Pipe Heat Exchanger is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Passive Heat Pipe Heat Exchanger players cover Mitsubishi Electric Corporation, Munters Corporation, Maniks, AMSEnergy, Nortek Air Solutions, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Passive Heat Pipe Heat Exchanger Industry Forecast? looks at past sales and reviews total world Passive Heat Pipe Heat Exchanger sales in 2025, providing a comprehensive analysis by region and market sector of projected Passive Heat Pipe Heat Exchanger sales for 2026 through 2032. With Passive Heat Pipe Heat Exchanger sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Passive Heat Pipe Heat Exchanger industry.

This Insight Report provides a comprehensive analysis of the global Passive Heat Pipe Heat Exchanger landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Passive Heat Pipe Heat Exchanger portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Passive Heat Pipe Heat Exchanger market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Passive Heat Pipe Heat Exchanger and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Passive Heat Pipe Heat Exchanger.

This report presents a comprehensive overview, market shares, and growth opportunities of Passive Heat Pipe Heat Exchanger market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Air to Air

Air to Liquid

Segmentation by Structure Type:

Heat Pipe Heat Exchanger

Thermosyphon Heat Exchanger

Loop Heat Pipe Exchanger

Vapor Chamber Heat Exchanger

Segmentation by Material Type:

Copper Heat Pipe Exchanger

Aluminum Heat Pipe Exchanger

Stainless Steel Heat Pipe Exchanger

Segmentation by Application:

Cabinet

Traction Convertor

Boilers

Kilns

Furnaces

Ovens

Othes

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Mitsubishi Electric Corporation

Munters Corporation

Maniks

AMSEnergy

Nortek Air Solutions

Spirax Sarco

Heat Pipe Technology

LJUNGSTR?M

Noren Thermal Inc

Key Questions Addressed in this Report

What is the 10-year outlook for the global Passive Heat Pipe Heat Exchanger market?

What factors are driving Passive Heat Pipe Heat Exchanger market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Passive Heat Pipe Heat Exchanger market opportunities vary by end market size?

How does Passive Heat Pipe Heat Exchanger break out by Type, by Application?

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