

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

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Abstracts

The global Heat Pipe market size is expected to reach \$ 4218 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

A heat pipe is a passive two-phase heat-transfer device that transports thermal energy through the evaporation, vapor flow, condensation, and return circulation of a working fluid inside a sealed enclosure. A typical heat pipe consists of a sealed metallic envelope, an internal wick structure, and a small quantity of working fluid. Heat applied to the evaporator section vaporizes the fluid; the vapor then flows toward the cooler condenser section, where it releases latent heat and condenses. The liquid returns to the evaporator through capillary force or gravity, completing a continuous thermal cycle. Heat pipes require no mechanical pump or external power and are characterized by high heat-transfer capability, low temperature difference, compact construction, quiet operation, and high reliability. They are widely used in computers, servers, telecommunications equipment, industrial electronics, automotive electronics, aerospace systems, energy equipment, and HVAC applications. The upstream heat pipe supply chain consists primarily of envelope materials such as copper, aluminum, stainless steel, and titanium tubing; wick materials such as copper powder, copper mesh, metallic fibers, and sintered porous structures; and working fluids including deionized water, ammonia, methanol, acetone, refrigerants, sodium, and potassium. Copper-water systems dominate consumer electronics and general electronics cooling, while aluminum-ammonia and stainless-steel/liquid-metal systems are more commonly used in cryogenic, aerospace, and high-temperature applications.

The global heat pipes market represents an important segment of the electronic thermal-management and industrial temperature-control industries. Heat pipes transfer thermal energy passively through the evaporation and condensation of an internal working fluid,

offering compact construction, high reliability, low operating-temperature differences, and no requirement for external pumping power. They are widely used in notebook and desktop computers, graphics cards, servers and data-center equipment, telecommunications base stations, industrial power supplies, automotive electronics, medical equipment, and aerospace thermal-control systems. As the power density of processors, GPUs, power semiconductors, and communications components continues to increase, heat sources are becoming more concentrated, creating stronger demand for high-capacity, low-profile, lightweight, and customized thermal-transfer components. This trend is supporting continued development of round heat pipes, flat heat pipes, vapor chambers, and integrated heat-pipe cooling assemblies. Vapor chambers primarily spread heat across a two-dimensional plane, while conventional heat pipes mainly transport heat along their longitudinal axis, allowing the two technologies to serve complementary roles in high-performance electronic systems.

This report studies the global Heat Pipe demand, key companies, and key regions.

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

Highlights and key features of the study

Global Heat Pipe total market, 2021-2032, (USD Million)

Global Heat Pipe total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Heat Pipe total market, key domestic companies, and share, (USD Million)

Global Heat Pipe revenue by player, revenue and market share 2021-2026, (USD Million)

Global Heat Pipe total market by Type, CAGR, 2021-2032, (USD Million)

Global Heat Pipe total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Heat Pipe market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Furukawa, Eaton (Aavid), Fujikura, Cooler Master, AVC, Yen Ching, Auras, CCI, Forcecon Tech, Foxconn, 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 Pipe market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Pipe Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heat Pipe Market, Segmentation by Type:

Constant-conductance Heat Pipes (CCHPs)

Variable-conductance Heat Pipes (VCHPs)

Diode Heat Pipes

Others

Global Heat Pipe Market, Segmentation by Wick Structure:

Sintered-Powder Wick Heat Pipes

Screen-Mesh Wick Heat Pipes

Grooved-Wick Heat Pipes

Fiber-Wick Heat Pipes

Others

Global Heat Pipe Market, Segmentation by Cross-sectional Shape:

Round Heat Pipes

Flat Heat Pipes

Global Heat Pipe Market, Segmentation by Envelope Material:

Copper

Aluminum

Stainless-Steel

Others

Global Heat Pipe Market, Segmentation by Application:

Consumer Electronics

Aerospace

HVAC and Energy

Industrial and Power Electronics

Telecommunications Equipment

Others

Companies Profiled:

Furukawa

Eaton (Aavid)

Fujikura

Cooler Master

AVC

Yen Ching

Auras

CCI

Forcecon Tech

Foxccon

Wakefield Vette

Innergy Tech

SPC

Dau

Taisol

Colmac Coil

ACT

Newidea Technology

Nanjing Shengnuo

Novark

Deepcool

Wtl-heatpipe

Key Questions Answered

1. How big is the global Heat Pipe market?
2. What is the demand of the global Heat Pipe market?
3. What is the year over year growth of the global Heat Pipe market?
4. What is the total value of the global Heat Pipe market?
5. Who are the Major Players in the global Heat Pipe market?
6. What are the growth factors driving the market demand?

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