

Global Heat Pipe Market Growth 2025-2031

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Abstracts

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The global Heat Pipe market size is predicted to grow from US\$ 2956 million in 2025 to US\$ 3910 million in 2031; it is expected to grow at a CAGR of 4.8% from 2025 to 2031.

A heat pipe is a closed evaporator-condenser system consisting of a sealed, hollow tube whose inside walls are lined with a capillary structure or wick. Thermodynamic working fluid, with substantial vapor pressure at the desired operating temperature, saturates the pores of the wick in a state of equilibrium between liquid and vapor. When heat is applied to the heat pipe, the liquid in the wick heats and evaporates. As the evaporating fluid fills the heat pipe hollow center, it diffuses throughout its length. Condensation of the vapor occurs wherever the temperature is even slightly below that of the evaporation area. As it condenses, the vapor gives up the heat it acquired during evaporation. This effective high thermal conductance helps maintain near constant temperatures along the entire length of the pipe.

Global Heat Pipe key players include Furukawa, Aavid, Fujikura, Cooler Master, AVC, etc. Global top five manufacturers hold a share over 70%.

Asia-Pacific is the largest market, with a share over 45%, followed by Europe and North America, both have a share over 40%.

In terms of product, Constant Conductance is the largest segment, with a share over 30%. And in terms of application, the largest application is Consumer Electronics, followed by Process Industry, Aerospace, etc.

LP Information, Inc. (LPI) ' newest research report, the "Heat Pipe Industry Forecast" looks at past sales and reviews total world Heat Pipe sales in 2024, providing a

comprehensive analysis by region and market sector of projected Heat Pipe sales for 2025 through 2031. With Heat Pipe sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Heat Pipe industry.

This Insight Report provides a comprehensive analysis of the global Heat Pipe 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 Heat Pipe portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Heat Pipe market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Heat Pipe 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 Heat Pipe.

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

Segmentation by Type:

Constant Conductance

Vapor Chamber

Variable Conductance

Diode

Thermosyphon

Others

Segmentation by Application:

Aerospace

Consumer Electronics

Process

Others

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.

Furukawa

Aavid

Fujikura

Cooler Master

AVC

Yen Ching

Auras

CCI

Forcecon Tech

Foxccon

Wakefield Vette

Themacore

Innergy Tech

SPC

Dau

Taisol

Colmac Coil

ACT

Newidea Technology

Shengnuo

Novark

Boyuan

Deepcool

Wtl-heatpipe

Harbin DawnHappy

Key Questions Addressed in this Report

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

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

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

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

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

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