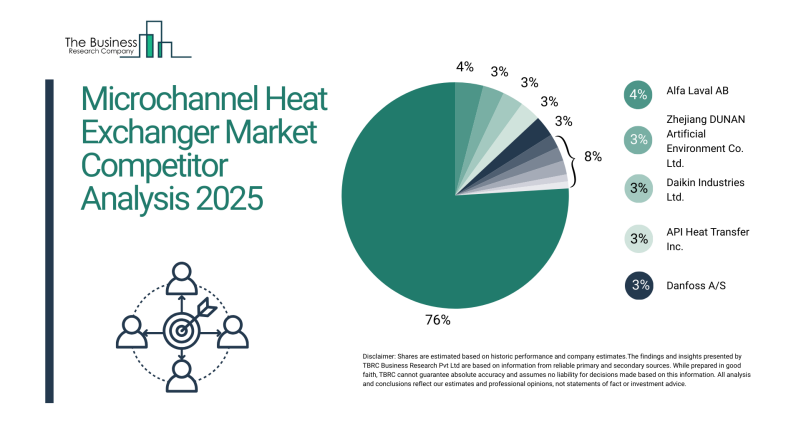
Microchannel Heat Exchanger Market In 2029

The Business Research Company's Microchannel Heat Exchanger Global Market Report 2025 – Market Size, Trends, And Forecast 2025-2034



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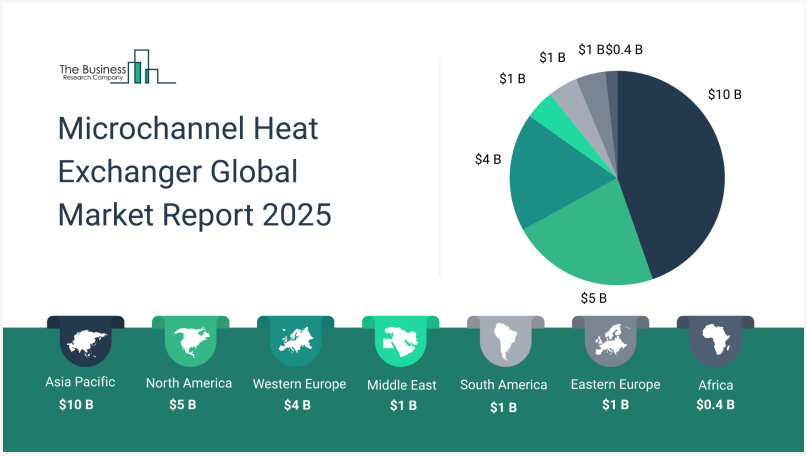

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LONDON, GREATER LONDON, UNITED KINGDOM, December 11, 2025 /EINPresswire.com/ -- Microchannel Heat Exchanger Market to Surpass $22 billion in 2029. In comparison, the HVAC Equipment, which is considered as its parent market, is expected to be approximately $439 billion by 2029, with Microchannel Heat Exchanger to represent around 5% of the parent market. Within the broader Machinery industry, which is expected to be $5,141 billion by 2029, the Microchannel Heat Exchanger market is estimated to account for nearly 0.4% of the total market value.

Which Will Be the Biggest Region in the Microchannel Heat Exchanger Market in 2029

Asia Pacific will be the largest region in the microchannel heat exchanger market in 2029, valued at $10,245 million. The market is expected to grow from $6,371 million in 2024 at a compound annual growth rate (CAGR) of 10%. The strong growth in the forecast period can be attributed to increasing technological advancements and growth of the automotive industry.

Which Will Be The Largest Country In The Global Microchannel Heat Exchanger Market In 2029?

China will be the largest country in the microchannel heat exchanger market in 2029, valued at $5,598 million. The market is expected to grow from $3,397 million in 2024 at a compound annual growth rate (CAGR) of 11%. The strong growth in the forecast period can be attributed to

technological advancements and increasing construction activities.

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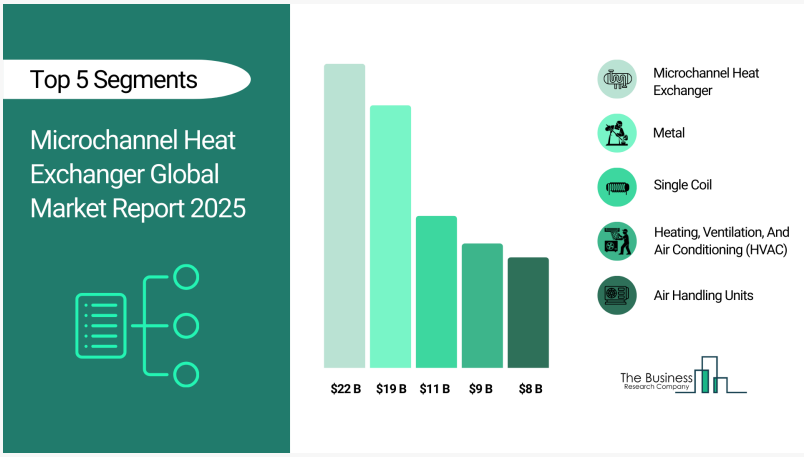

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What will be Largest Segment in the Microchannel Heat Exchanger Market in 2029?

The microchannel heat exchanger market is segmented by type into air handling units, heat pumps, fan coil units, chillers, and other types. The air handling units market will be the largest segment of the microchannel heat exchanger market segmented by type, accounting for 35% or $7,717 million of the total in 2029. The air handling units market will be supported by energy efficiency demands, sustainability trends and advancements in HVAC (heating, ventilation and air conditioning) technology. Air handling units (AHUs) contribute to the microchannel heat exchanger market by integrating these compact and efficient cooling solutions to manage air temperature and humidity in large commercial and industrial spaces. MCHEs enhance the heat exchange process in AHUs, offering improved energy efficiency, reduced size and better heat dissipation.

The microchannel heat exchanger market is segmented by material type into metal and ceramic. The metal market will be the largest segment of the microchannel heat exchanger market segmented by material type, accounting for 86% or $18,886 million of the total in 2029. The metal market will be supported by industries demand lighter, more efficient and environmentally friendly solutions, the choice of metal is evolving. Metals play a crucial role in the microchannel heat exchanger market by providing excellent thermal conductivity and structural integrity. Materials like aluminium and copper are commonly used for manufacturing MCHEs, ensuring efficient heat dissipation while maintaining lightweight and corrosion-resistant properties.

The microchannel heat exchanger market is segmented by fluid mechanism into single coil, dual coil and multi coil. The single coil market will be the largest segment of the microchannel heat exchanger market segmented by fluid mechanism, accounting for 51% or $11,215 million of the total in 2029. The single coil market will be supported by increasing demand for energy-efficient systems, advancements in manufacturing, smart HVAC and IoT integration, growing adoption of electric vehicles (EVs).

The microchannel heat exchanger market is segmented by end-use industry into automotive, heating, ventilation and air conditioning (HVAC), commercial refrigeration, and other end-use industries. The heating, ventilation and air conditioning (HVAC) market will be the largest

segment of the microchannel heat exchanger market segmented by end-user industry, accounting for 42% or $9,134 million of the total in 2029. The heating, ventilation and air conditioning (HVAC) market will be supported by the need for energy-efficient and environmentally friendly solutions in residential, commercial and industrial HVAC applications. Heating, ventilation and air conditioning (HVAC) systems drive the demand for microchannel heat exchangers by requiring efficient and compact cooling solutions for residential, commercial, and industrial applications. MCHEs offer superior heat transfer efficiency in smaller, lighter designs, making them ideal for modern HVAC systems aiming for better energy efficiency and space optimization.

What is the expected CAGR for the Microchannel Heat Exchanger Market leading up to 2029?
The expected CAGR for the microchannel heat exchanger market leading up to 2029 is 9%.

What Will Be The Growth Driving Factors In The Global Microchannel Heat Exchanger Market In The Forecast Period?
The rapid growth of the global microchannel heat exchanger (MCHE) market leading up to 2029 will be driven by the following key factors that are expected to reshape thermal management, HVAC, and industrial cooling systems worldwide.

Increasing Urbanization- The increasing urbanization will become a key driver of growth in the microchannel heat exchanger market by 2029. Urbanization positively influences microchannel heat exchangers by driving the demand for energy-efficient, space-saving cooling solutions in densely populated areas with high industrial and residential needs.

Shift Towards Renewable Energy- The shift towards renewable energy will emerge as a major factor driving the expansion of the microchannel heat exchanger market by 2029. Renewable energy positively impacts microchannel heat exchangers by increasing the demand for energy-efficient cooling systems in sustainable energy applications, such as solar-powered HVAC (heating, ventilation and air conditioning) and industrial processes.
Increasing Construction Industry - The increasing construction industry will serve as a key growth catalyst for the microchannel heat exchanger market by 2029. The construction industry requires microchannel heat exchangers for their energy-efficient, space-saving cooling solutions, which are ideal for HVAC (heating, ventola systems and other building applications that demand compact and effective thermal management.

Growth In Data Centers- The growth in data centers will become a significant driver contributing to the growth of the microchannel heat exchanger market by 2029. Data centers are specialized facilities used to house and manage large amounts of computer servers, storage systems, and networking equipment for processing, storing and transmitting data. Data centers require microchannel heat exchangers for efficient, space-saving thermal management to effectively cool high-density server equipment and maintain optimal performance.

Expansion Of Smart Cities- The expansion of smart cities will become a significant driver

contributing to the growth of the microchannel heat exchanger market by 2029. Smart cities require microchannel heat exchangers for efficient, compact thermal management in energy systems, HVAC applications, and cooling solutions to support sustainable urban infrastructure and enhance environmental performance.

Rise In Consumer Electronics -The rise in consumer electronics will become a significant driver contributing to the growth of the microchannel heat exchanger market by 2029. Consumer electronics are rising due to advancements in technology, increasing connectivity through smart devices and growing consumer demand for convenience, entertainment, and digital integration in daily life. Microchannel heat exchangers are required in consumer electronics for their compact size, high efficiency, and ability to provide effective thermal management in space-limited devices, such as smartphones, laptops, and gaming consoles.

Favorable Government Initiatives -The favorable government initiatives will become a significant driver contributing to the growth of the microchannel heat exchanger market by 2029. Government initiatives positively impact the microchannel heat exchanger market by providing funding, regulations and policies that promote energy efficiency, sustainability, and technological advancements, driving demand for compact and efficient thermal management solutions.

Access the detailed Microchannel Heat Exchanger Market report here:
https://www.thebusinessresearchcompany.com/report/microchannel-heat-exchanger-global-market-report

What Are The Key Growth Opportunities In The Microchannel Heat Exchanger Market in 2029?
The most significant growth opportunities are anticipated in the metal-based microchannel heat exchanger market, the single coil microchannel heat exchanger market, the microchannel heat exchangers for HVAC market and the air handling microchannel heat exchanger market. Collectively, these segments are projected to contribute over $17 billion in market value by 2029, driven by increasing demand for energy-efficient HVAC solutions, rising adoption of compact heat exchanger technologies, and growing emphasis on sustainable building and industrial systems. This surge reflects the accelerating integration of advanced microchannel designs, lightweight materials, and high-performance heat transfer technologies, fueling transformative growth within the broader air handling and microchannel heat exchanger industry.

The metal-based microchannel heat exchanger market is projected to grow by $6,836 million, the single coil microchannel heat exchanger market by $4,179 million, the microchannel heat exchangers for HVAC market by $3,343 million and the air handling microchannel heat exchanger market by $2,912 million over the next five years from 2024 to 2029.

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