

# **Rear Door Heat Exchanger Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Type (Active and Passive) and End User (Data Center, IT and Telecommunication, Semiconductor, Education, Government, and Others)**

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## **Abstracts**

The Rear Door Heat Exchanger market size is expected to reach US\$ 1455.26 million by 2030 from 647.75 million in 2022, at an estimated CAGR of 10.6% from 2022 to 2030.

The North America Rear Door Heat Exchanger market is segmented into the US, Canada, and Mexico. Data centers play a crucial role in the future of North America's economy. As more businesses and users move to the digital sphere, the need for efficient information processing is growing. Data centers are communication network connectors, so users can gain rapid access to information even by working remotely. According to the report of the United States International Trade Commission (USITC), the US data center sector is anticipated to be valued at US\$ 99.97 billion in 2023. There are 8,000 data centers worldwide. Of these, 33% of data centers are located in the US. The top five drivers for the data center market in North America are digitization, remote work, digital technologies, AI & ML, OTT services, and IoT. In the region, the data center growth is showing no sign of slowing down.

The demand for more digital access, storage, and data processes is constantly rising. Further, according to Statistics Canada, the percentage of core-age employees working from home was ~43% in May 2020 in Canada. By December 2021, 26% of core-age employees in Canada worked from home. 90% of teleworkers reported consistent or

higher productivity rates working remotely, compared with in-office work, and 41% of teleworkers preferred to work half of their weekly hours remotely. The combination of a tech-savvy society and remote working trends means a perpetual increase in the data center market size in North America.

Additionally, there are two other reasons for the growth of data centers: Internet of Things (IoT) and AI. As more and more devices are connecting to the internet daily, the amount of data that is being generated is increasing. Hence, there is a need for more data centers in the region to store this massive data. Products in the rear door heat exchanger market are widely used in data centers to keep both airstreams separated by transferring the heat from the inside to the outside of the data center building. Hence, with the increasing demand for data centers in North America, the need for products in rear door heat exchanger market are increasing significantly.

Based on type, the rear door heat exchanger market is segmented into active and passive. The active segment held the largest share in the rear door heat exchanger market in 2022. The rear door heat exchanger is ideal for supporting high-density data centers. Various manufacturers of rear door heat exchangers are launching the active type rear door heat exchangers for data center cooling applications. For instance, in June 2019, Nortek Air Solutions launched the ServerCool rear door heat exchangers product line. Nortek Air Solutions has launched the ADHX 35-6B active rear door heat exchangers for data center cooling applications. The ADHX 35-6B is the next generation of ServerCool's successful ADHX, offering improvements in the areas of backdoor heat exchanger redundancy, ease of use, durability, and energy efficiency. The ADHX 35-6B outperforms other ADHXs in the data center industry in terms of total cost of ownership (TCO) and power consumption efficiency (PUE). In addition, it offers a proven engineering design that reduces both installation and maintenance costs. This improved design is suitable for retrofits and new data centers with chilled water systems, consuming less than 500 W of power for 35 kW of cooling capacity and contributing to a PUE value of only 1.033

Based on end user the rear door heat exchanger market is segmented into data center, IT and telecommunication, semiconductor, education, government, and others. The data center segment held the largest share in the rear door heat exchanger market. Rear door heat exchangers are a type of cooling system that can be used in data centers to remove heat from server racks. Rear door heat exchangers are mounted at the rear of the racks and work by transferring heat from the hot exhaust air to a circulating liquid coolant. The coolant is then pumped away to a chiller or cooling tower, where the heat is removed, and the coolant is returned to the rear door heat exchangers

to be reused. Various manufacturers of rear door heat exchangers are launching products for data center cooling applications. For instance, in May 2023, CoolIT Systems, a leading provider of innovative liquid cooling solutions for data centers, expanded its product portfolio with the industry's first Rear Door Heat Exchanger (RDHx) with Direct Liquid Cooling (DLC). CoolIT Systems' DLC-enabled RDHx is an integral part of a comprehensive cooling ecosystem with unparalleled product validation against the most stringent direct liquid cooling requirements. It is the only RDHx guaranteed to integrate with CoolIT's DLC technology and is used by nearly every major server OEM.

Coolcentric, Nortek Air Management, USystems Limited, COOLIT SYSTEMS, nVent Electric plc, Vertiv Group Corp, STULZ GMBH, Motivair Corporation, IBM, and Airedale are among the key Rear door heat exchanger Market players that are profiled in this market study.

The overall Rear door heat exchanger Market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Rear door heat exchanger Market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the Rear door heat exchanger Market.

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