

# North America Rear Door Heat Exchanger Market Forecast to 2030 - Regional Analysis - By Type (Active and Passive) and End User (Data Center, IT and Telecommunication, Semiconductor, Education, Government, and Others)

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## Abstracts

The North America rear door heat exchanger market was valued at US\$ 265.64 million in 2022 and is expected to reach US\$ 586.27 million by 2030; it is estimated to grow at a CAGR of 10.4% from 2022 to 2030.

**Increasing Number of Data Centers Globally Fuels the North America Rear Door Heat Exchanger Market**

With the increased demand for immediate data transfer in offices, data is taking longer to reach its destination. Most organizations depend on large, outsourced data centers, usually located far from their place of business. There are various benefits offered by data centers. They provide redundant backup and a secure offsite location for all the business data. They provide rack space, a secure facility, and internet connectivity to keep the business running if something out of the ordinary happens to the business server. If the business is dependent on having access to the internet data and operations 24x7x365, a data center is critical and can ensure that the internet data is accessible. The rear door heat exchangers are essential components in modern data centers because they provide efficient and targeted cooling, improve energy efficiency, enhance reliability, and help data center operators manage the thermal challenges posed by increasingly powerful IT equipment and high-density rack configurations.

According to the United States International Trade Commission (USITC):

Spending on data center systems reached US\$ 237 billion in 2021 worldwide.

About 2% of the total energy is used by data centers in the US.

There are almost 7,500 data centers worldwide.

The largest concentration of data centers is in the US, with more than 300 locations.

In February 2023, AWS announced AWS Modular Data Center for the US Department of Defense Joint Warfighting Cloud Capability. The installations of data centers with high power density and critical capacities require power cables. Also, Schneider Electric and Compass Datacenters have announced a multi-year partnership valued at US\$ 3 billion. The firms' current cooperation, which integrates their separate supply chains to produce and distribute prefabricated modular data center solutions, is extended by this arrangement.- Further, Skanska signed an agreement with an existing client to construct a US\$ 171 million data center in Atlanta, US.

Hence, with an increasing number of data centers, the demand for rear heat exchangers is rising significantly, as the rear door heat exchangers are widely used for supporting high-density data centers.

#### North America Rear Door Heat Exchanger Market Overview

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 ~XX% 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. Rear door heat exchangers 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 rear door heat exchangers is increasing significantly.

#### North America Rear Door Heat Exchanger Market Revenue and Forecast to 2030 (US\$

Million)

### North America Rear Door Heat Exchanger Market Segmentation

The North America rear door heat exchanger market is segmented based on type, end user, and country.

Based on type, the North America rear door heat exchanger market is bifurcated into active and passive. The active segment held a larger share in 2022.

By end user, the North America 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 2022.

Based on country, the North America rear door heat exchanger market is segmented into the US, Canada, and Mexico. The US dominated the North America rear door heat exchanger market in 2022.

Airedale International Air Conditioning Ltd; Coolcentric; CoolIT Systems Inc; International Business Machines Corp; Motivair Corporation; Nortek Air Solutions, LLC; nVent Electric plc; Stulz UK Ltd; USystems Limited; and Vertiv Group Corp. are some of the leading companies operating in the North America rear door heat exchanger market.

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