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Asia Pacific 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)

https://marketpublishers.com/r/A3E72502F603EN.html
Date: February 2024
Pages: 81
Price: US$ 3,550.00 (Single User License)
ID: A3E72502F603EN

Abstracts

The Asia Pacific rear door heat exchanger market was valued at US$ 169.65 million in 2022 and is expected to reach US$ 393.50 million by 2030; it is estimated to grow at a CAGR of 11.1% from 2022 to 2030.
Increasing Number of Data Centers Globally Fuels the Asia Pacific 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. Various companies are providing data center solutions for the storage, processing, and distribution of data. For instance, in June 2023, IT infrastructure and services firm NTT invested ~US$ 350 million and launched a new hyperscale data center campus in Chennai. It also announced the arrival and linkage of its subsea cable system MIST with the new DC campus. Also, In June 2023, PT ST Telemedia Global Data Centers

(Indonesia) or PT STT GDC Indonesia, a leading data center provider, officially launched its first data center facility, STT Jakarta 1, in Bekasi, Jawa Barat. The data center campus will support up to 72 megawatts (MW) of critical IT capacity, with STT Jakarta 1 supporting up to 19.5 MW. Additionally, the Sydney-based CIMIC Group announced that Singapore's ST Telemedia Global Data Centres has granted its subsidiary Leighton Asia a contract to execute the first phase of the STT Fairview 1 data center development in Quezon City, Philippines. Also, A US$ 41.5 billion data center development project in Johor has officially begun with the acceptance of the Letter of Initial Appointment (LOIA) from K2 Strategic Infrastructure Malaysia Sdn Bhd by Sunway Construction Sdn Bhd (SCSB). 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.

Asia Pacific Rear Door Heat Exchanger Market Overview

The Asia Pacific rear door heat exchanger market is growing significantly. Asia Pacific is continuing to witness aggressive expansion across primary and secondary data center markets, with 9.7 GW operational, 3.3 GW under construction, and 8.5 GW data centers in planned stages across the region. The primary markets for data centers in APAC are Beijing, Hong Kong, Mumbai, Seoul, Shanghai, Sydney, and Tokyo, which continue to experience growth. Also, governments in APAC are actively promoting investments in digital infrastructure and data centers as part of their economic development strategies. RDHx units ensure the reliability and efficiency of these facilities. For instance, in December 2019, the city-state imposed a moratorium to moderate the growth of new data centers in an effort to find a balance between supporting business needs and environmental sustainability. Similarly, in April 2023, the global provider of carrier-neutral data centers and colocation centers Digital Realty announced two renewable energy initiatives in APAC that will contribute to its global carbon emissions reduction targets. Digital Realty's uptake of renewable electricity is projected to reduce greenhouse emissions by up to 77161.792 Metric tons yearly in Australia, contributing to Australia's 2030 Program for sustainable development efforts to 2030 and beyond. Other countries such as the Netherlands and Ireland have also paused new builds to reduce the strain on power grids. The company (Digital Realty) in Singapore also completed the solar panels installation at its SIN11 data center. Furthermore, many companies are launching new data centers in APAC. For instance, in June 2023, Colt DCS announced the completion of the first phase of development of one of the largest data centers located in Navi Mumbai in the current portfolio, a 120 MW data center with a gross site area of 62,000 m2. The company is building this data center to satisfy the growing demand for mobile internet in India, mass cloud migration, and rapid digitalization of industries. The rear door heat exchangers are widely used to ensure optimal performance and energy efficiency in data centers. Hence, with the increasing

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government initiative and the number of data centers, the demand for rear door heat exchangers is increasing.

Asia Pacific Rear Door Heat Exchanger Market Revenue and Forecast to 2030 (US$ Million)

Asia Pacific Rear Door Heat Exchanger Market Segmentation

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

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

By end user, the Asia Pacific 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 Asia Pacific rear door heat exchanger market is segmented into China, Japan, India, South Korea, Australia, and the Rest of Asia Pacific. China dominated the Asia Pacific rear door heat exchanger market in 2022.

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

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