



# Data Center Precision Air Conditioning Market Size to Reach Revenues of USD 1.8 Billion by 2025 – Arizton

*The global data center precision air conditioning market size to cross USD 1.8 billion by 2025, growing at a CAGR of 2.5% during 2020-2025.*

CHICAGO, ILLINOIS, UNITED STATES, December 9, 2020 /EINPresswire.com/ -- The global [data center precision air conditioning market](#) is expected to grow at a CAGR of 2.5% during the period 2019–2025.

## Key Highlights Offered in the Report:

1. Increasing rack power density to bring in over USD 2.5 billion investments into in-rack precision air-conditioners during 2020-2025.
2. In 2019, the US market witnessed investments in over 130+ new and expansion projects, followed by Europe and APAC with investments in over 100 projects each. In 2019, over USD 800 million spent on computer room air conditioners (CRAC) across data centers worldwide.
3. Japan data center market to witness investments of over USD 260 million in precision air-conditioners during 2020-2025.
4. China and Hong Kong contribute to around 28% of investments into data center precision air-conditioners.

## Key Offerings:

- Market Size & Forecast by Revenue | 2019–2025
- Market Dynamics – Leading trends, growth drivers, restraints, and investment opportunities
- Market Segmentation – A detailed analysis by products, deployment, tier standards, and geography
- Competitive Landscape – 16 companies are profiled

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## Data Center Precision Air Conditioning Market – Segmentation

- In terms of cooling infrastructure, the North American region has witnessed a strong growth of cooling systems, evaporative coolers, and free cooling chillers in the last few years. The increasing procurement of artificial intelligence-based infrastructure solutions is a major driving factor for the adoption of rack-based and row-based cooling solutions.

- The market is expected to witness the adoption of modular in-rack cooling solutions during the forecast period. In-row cooling technology, which is the most efficient, is used in data centers, which are equipped with a rack power density of over 5 kW per rack and above.
- Most data centers in the US and Canada are Tier III certified and have multiple levels of redundancy. In western Europe, Tier IV facilities adopt a 2N+1 redundant configuration for cooling systems. European countries are the major revenue generators for adiabatic cooling units to cool data centers using outside free air.

#### Data Center Precision Air Conditioning Market by Products

- CRAC Units
- CRAH Units

#### Data Center Precision Air Conditioning Market by Deployment

- In-row cooling
- In-rack cooling

#### Data Center Precision Air Conditioning Market by Tier Standards

- Tier I & Tier II
- Tier III
- Tier IV

#### Data Center Precision Air Conditioning Market – Dynamics

Data center operators are more concerned about operating facilities with higher efficiency and maximum availability. Data center operators also need to control power usage through cooling systems. Cooling system failure and inefficient cooling are among the major concerns for service disruption among data centers. Also, cooling equipment failure has increased the demand for monitoring systems over the past three years. In 2016, Google implemented DeepMind AI in its data centers for end-to-end monitoring and automation of its facilities. This has resulted in 15% savings in power cost and around 40% savings in power consumption with cooling systems at its data centers. Due to the increasing number of data centers with higher power consumption and carbon emissions, the use of inefficient traditional air-conditioning systems, the need for DCIM solutions is witnessing higher growth over the past few years.

#### Key Drivers and Trends fueling Market Growth:

- Increasing the Facility Development with Low PUE
- Growing Deployment of Edge Data Centers
- Investment from Colocation Providers Boosts Precision Air Conditioner Adoption
- Hyperscale Data Centers to Aid the Increase in Adoption of Precision Air Conditioners

#### Data Center Precision Air Conditioning Market – Geography

North America has always been a strong driver for the data center market, with many recent activities targeting the construction of hyperscale facilities with more than a 20 MW power capacity. The region has witnessed increasing investments in Tier III data center facilities, with

the US dominating the market. Most Tier III data centers in the US are configuring 2N redundancy cooling systems. The US is witnessing a rise in the adoption of systems that support free cooling in data centers. North America has also witnessed the construction of Tier IV facilities across multiple cities. On the other hand, Canada saw the construction of Tier III facilities adopting N+1 and N+N redundant infrastructure for cooling. Cooling infrastructure in data centers has evolved significantly in the past decade because of the need to reduce the OPEX of the facilities, increase system efficiency, and decrease carbon emissions.

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#### Data Center Precision Air Conditioning Market by Geography

- APAC
  - China & Hong Kong
  - Australia & New Zealand
  - India
  - Japan
  - Rest of APAC
- Western Europe
  - UK
  - Germany
  - France
  - Netherlands
  - Ireland
  - Central Eastern Europe
  - Russia & Czech Republic
  - Poland & Austria
  - Others
- North America
  - US
  - Canada
- Southeast Asia
  - Singapore
  - Malaysia
  - Thailand
  - Indonesia
  - Others
- Nordic
  - Denmark
  - Norway
  - Sweden
  - Finland & Iceland
  - Others

- Middle East
- GCC
- Others
- Africa
- South Africa
- Others
- Latin America
- Brazil
- Others

#### Major Vendors

- Airedale
- Axis Communications
- AIRSYS
- ClimateWorx
- Climaveneta
- Data Aire
- Delta Group
- Emicon
- Eaton
- Huawei
- Mortek Air Solutions
- Pentair (Schroff)
- Rittal
- Renovoair Zhuhai
- Swegon
- Schneider Electric
- Vertiv

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