Data Center Cooling Market Analysis By Product (Air Conditioners, Precision Air Conditioning, Chillers, Air Handling Units), By Application (Telecom & IT, Retail, Healthcare, BFSI, Energy), And Segment Forecasts To 2024

Description: The global data center cooling market is expected to reach USD 17.78 billion by 2024, according to this new report. The rise in the number of data centers on account of the surge in demand for cooling solutions across the IT & telecom, retail, BFSI, healthcare, and energy sectors is the key factor expected to catapult the data center cooling market. Big data and cloud computing proliferation are also projected to impact the industry demand positively over the forecast period.

The emergence of new data centers has played a pivotal role in driving the demand for cooling solutions. Further, the need for efficient solutions is of paramount importance to ensure proper server functioning and to eliminate system downtime. High data volume combined with the rise in the number of enterprises moving towards cloud computing is also expected to impel market growth over the forecast period. Technological advancements and the development of energy-efficient systems are rising as traditional cooling systems incur high operational costs owing to the increased power consumption.

Further key findings from the study suggest:

In 2015, precision air conditioners accounted for over 20% of the overall data center cooling market. These products offer benefits including continuous operation, precise humidity control and better air distribution while automatically controlling individual AC loads for efficient cooling.

The continuous operation of chillers is vital to the functioning of data centers due to the extensive heat produced by many servers functioning close to one another. The segment captured over 10% of the market in 2015; however, chillers consume more energy than other products and are expected to witness a moderate growth over the forecast period.

The telecom segment accounted for over 20% of the overall revenue share. The telecom providers are expected to invest heavily over the next eight years due to a rise in the number of Internet subscribers and the growing need for wireless communication. The telecom growth is primarily data-driven, which subsequently will instigate the demand for the data center infrastructure development.

The rise in the data center densities is a primary factor expected to drive the need for efficient cooling technologies. The North American market captured over 35% of the overall revenue in 2015; however, over the forecast period, the region is anticipated to witness a moderate growth in comparison to the other regions. Asia Pacific led by Southeast Asian countries is projected to witness a robust growth on account of the growing data center infrastructure.

The industry is consolidated in nature with the presence of few big players including Asetek, KyotoCooling, Climaveneta (Mitsubishi Electric), Air Enterprises, Rittal GmbH & Co. KG, and Schneider Electric. The cooling solution providers primarily focus on a strategic alliance with local cooling product providers as a part of their marketing strategy.

Contents:

1. Methodology and Scope
   1.1. Research Methodology
   1.2. Research Scope & Assumptions
   1.3. List of Data Sources

2. Executive Summary

3. Market Snapshot
   3.1. Data center cooling - Industry snapshot and key buying criteria, 2013 to 2024

4. Data Center Cooling Industry Outlook
4.1. Data center cooling market segmentation
4.2. Data center cooling market size and growth prospects
4.3. Data center cooling - Value chain analysis
4.4. Data center cooling market dynamics
4.4.1. Market driver analysis
4.4.1.1. Rising data storage requirements resulting in increasing adoption of cloud computing
4.4.1.2. Exponential growth in big data primarily arising from the telecommunication, IT, and retail sector
4.4.1.3. Rapidly developing IT infrastructure particularly in emerging economies resulting in growing number of data centers
4.4.1.4. Rising humidity level increasing reluctance on use of outside air
4.4.2. Market restraint analysis
4.4.2.1. High setup cost coupled with rising electricity consumption
4.4.2.2. Rising concerns over carbon emission
4.5. Data Center Cooling - Porter’s Five Forces Analysis
4.6. Data center cooling - Company market share analysis, 2015
4.7. Data center cooling market PESTEL analysis
4.8. Technical trends
4.9. Technology landscape
4.9.1. Liquid
4.9.2. Free air

5. Data Center Cooling Product Outlook
5.1. Air conditioners
5.1.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
5.2. Precision air conditioners
5.2.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
5.3. Chillers
5.3.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
5.4. Air handling units
5.4.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
5.5. Others
5.5.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)

6. Data Center Cooling Application Outlook
6.1. Telecom
6.1.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
6.2. IT
6.2.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
6.3. Retail
6.3.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
6.4. Healthcare
6.4.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
6.5. BFSI
6.5.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
6.6. Energy
6.6.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)
6.7. Others
6.7.1. Market estimates and forecasts by region, 2013 - 2024 (USD Million)

7. Data Center Cooling Regional Outlook
7.1. North America
7.1.1. Market estimates and forecasts, by product, 2013 - 2024 (USD Million)
7.1.2. Market estimates and forecasts, by application, 2013 - 2024 (USD Million)
7.2. Europe
7.2.1. Market estimates and forecasts, by product, 2013 - 2024 (USD Million)
7.2.2. Market estimates and forecasts, by application, 2013 - 2024 (USD Million)
7.3. Asia Pacific
7.3.1. Market estimates and forecasts, by product, 2013 - 2024 (USD Million)
7.3.2. Market estimates and forecasts, by application, 2013 - 2024 (USD Million)
7.4. Latin America
7.4.1. Market estimates and forecasts, by product, 2013 - 2024 (USD Million)
7.4.2. Market estimates and forecasts, by application, 2013 - 2024 (USD Million)
7.5. Middle East & Africa
7.5.1. Market estimates and forecasts, by product, 2013 - 2024 (USD Million)
7.5.2. Market estimates and forecasts, by application, 2013 - 2024 (USD Million)

8. Competitive Landscape
8.1. Air Enterprises
8.1.1. Company Overview
8.1.2. Product Benchmarking
8.1.3. Strategic Development
8.2. Asetek
8.2.1. Company Overview
8.2.2. Product Benchmarking
8.2.3. Strategic Development
8.3. Climaveneta
8.3.1. Company Overview
8.3.2. Product Benchmarking
8.3.3. Strategic Development
8.4. Emerson Network Power
8.4.1. Company Overview
8.4.2. Product Benchmarking
8.4.3. Strategic Development
8.5. Coolcentric
8.5.1. Company Overview
8.5.2. Product Benchmarking
8.5.3. Strategic Development
8.6. Fujitsu
8.6.1. Company Overview
8.6.2. Product Benchmarking
8.6.3. Strategic Development
8.7. Hitachi Ltd.
8.7.1. Company Overview
8.7.2. Product Benchmarking
8.7.3. Strategic Development
8.8. Netmagic Solutions Pvt. Ltd. (subsidiary of NTT)
8.8.1. Company Overview
8.8.2. Product Benchmarking
8.8.3. Strategic Development
8.9. Rittal GmbH & Co. Kg
8.9.1. Company Overview
8.9.2. Product Benchmarking
8.9.3. Strategic Development
8.10. Schneider Electric SE
8.10.1. Company Overview
8.10.2. Product Benchmarking
8.10.3. Strategic Development
8.11. Stulz GmbH
8.11.1. Company Overview
8.11.2. Product Benchmarking
8.11.3. Strategic Development
8.12. Telx (Digital Realty)
8.12.1. Company Overview
8.12.2. Product Benchmarking
8.12.3. Strategic Development

List of Tables
Table 1 Global data center cooling market, 2013 - 2024 (USD Million)
Table 2 Global market estimates and forecasts by region, 2013 - 2024 (USD Million)
Table 3 Global market estimates and forecasts by product, 2013 - 2024 (USD Million)
Table 4 Global market estimates and forecasts by application, 2014 - 2024 (USD Billion)
Table 5 Emerson Network Power overall sales by region, 2015
Table 6 Global data center cooling air conditioners demand, 2013 - 2024 (USD Million)
Table 7 Global data center cooling air conditioners demand by region, 2013 - 2024 (USD Million)
Table 8 Global data center cooling precision air conditioners demand, 2013 - 2024 (USD Million)
Table 9 Global data center cooling precision air conditioners demand by region, 2013 - 2024 (USD Million)
Table 10 Global data center cooling chillers demand, 2013 - 2024 (USD Million)
Table 11 Global data center cooling chillers demand by region, 2013 - 2024 (USD Million)
Table 12 Global data center cooling air handling units' demand, 2013 - 2024 (USD Million)
Table 13 Global data center cooling air handling units' demand by region, 2013 - 2024 (USD Million)
Table 14 Global data center cooling other products demand, 2013 - 2024 (USD Million)
Table 15 Global data center cooling other products demand by region, 2013 - 2024 (USD Million)
Table 16 Global demand for data center cooling in telecom 2013 - 2024 (USD Million)
Table 17 Global demand for data center cooling in telecom by region, 2013 - 2024 (USD Million)
Table 18 Global demand for data center cooling in IT, 2013 - 2024 (USD Million)
Table 19 Global demand for data center cooling in IT by region, 2013 - 2024 (USD Million)
Table 20 Global demand for data center cooling in retail, 2013 - 2024 (USD Million)
Table 21 Global demand for data center cooling in retail by region, 2013 - 2024 (USD Million)
Table 22 Global demand for data center cooling in healthcare, 2013 - 2024 (USD Million)
Table 23 Global demand for data center cooling in healthcare by region, 2013 - 2024 (USD Million)
Table 24 Global demand for data center cooling in BFSI, 2013 - 2024 (USD Million)
Table 25 Global demand for data center cooling in BFSI by region, 2013 - 2024 (USD Million)
Table 26 Global demand for data center cooling in energy, 2013 - 2024 (USD Million)
Table 27 Global demand for data center cooling in energy by region, 2013 - 2024 (USD Million)
Table 28 Global demand for data center cooling in other applications, 2013 - 2024 (USD Million)
Table 29 Global demand for data center cooling in other applications by region, 2013 - 2024 (USD Million)
Table 30 North America market by product, 2013 - 2024 (USD Million)
Table 31 North America market by application, 2013 - 2024 (USD Million)
Table 32 U.S. market by product, 2013 - 2024 (USD Million)
Table 33 U.S. market by application, 2013 - 2024 (USD Million)
Table 34 Canada market by product, 2013 - 2024 (USD Million)
Table 35 Canada market by application, 2013 - 2024 (USD Million)
Table 36 Europe market by product, 2013 - 2024 (USD Million)
Table 37 Europe market by application, 2013 - 2024 (USD Million)
Table 38 Germany market by product, 2013 - 2024 (USD Million)
Table 39 Germany market by application, 2013 - 2024 (USD Million)
Table 40 UK market by product, 2013 - 2024 (USD Million)
Table 41 UK market by application, 2013 - 2024 (USD Million)
Table 42 Nordic market by product, 2013 - 2024 (USD Million)
Table 43 Nordic market by application, 2013 - 2024 (USD Million)
Table 44 Asia Pacific market by product, 2013 - 2024 (USD Million)
Table 45 Asia Pacific market by application, 2013 - 2024 (USD Million)
Table 46 China market by product, 2013 - 2024 (USD Million)
Table 47 China market by application, 2013 - 2024 (USD Million)
Table 48 Japan market by product, 2013 - 2024 (USD Million)
Table 49 Japan market by application, 2013 - 2024 (USD Million)
Table 50 India market by product, 2013 - 2024 (USD Million)
Table 51 India market by application, 2013 - 2024 (USD Million)
Table 52 South East Asia market by product, 2013 - 2024 (USD Million)
Table 53 South East Asia market by application, 2013 - 2024 (USD Million)
Table 54 Latin America market by product, 2013 - 2024 (USD Million)
Table 55 Latin America market by application, 2013 - 2024 (USD Million)
Table 56 Brazil market by product, 2013 - 2024 (USD Million)
Table 57 Brazil market by application, 2013 - 2024 (USD Million)
Table 58 Mexico market by product, 2013 - 2024 (USD Million)
Table 59 Mexico market by application, 2013 - 2024 (USD Million)
Table 60 Middle East & Africa market by product, 2013 - 2024 (USD Million)
Table 61 Middle East & Africa market by application, 2013 - 2024 (USD Million)

Ordering:
Order Online - http://www.researchandmarkets.com/reports/3822892/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Research and Markets,
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Data Center Cooling Market Analysis By Product (Air Conditioners, Precision Air Conditioning, Chillers, Air Handling Units), By Application (Telecom & IT, Retail, Healthcare, BFSI, Energy), And Segment Forecasts To 2024
Web Address: http://www.researchandmarkets.com/reports/3822892/
Office Code: SCBRRA53

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) -</td>
<td></td>
<td>USD 4700</td>
</tr>
<tr>
<td>Single User:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF) -</td>
<td></td>
<td>USD 8000</td>
</tr>
<tr>
<td>Site License:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF) -</td>
<td></td>
<td>USD 10500</td>
</tr>
<tr>
<td>Enterprisewide:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: __________________________ Last Name: _______________________
Email Address: * ________________________________
Job Title: ____________________________
Organisation: ________________________________
Address: ____________________________
City: ____________________________
Postal / Zip Code: ________________________________
Country: ____________________________
Phone Number: ________________________________
Fax Number: ________________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp