

Global Air Handling Unit (AHU) Market Size Study, by Type (Custom, DX Integrated, Low Profile, Modular, Packaged, Rooftop Mounted), by Effect (Double Effect, Single Effect), by Application (Commercial, Residential), by Capacity (15,001 – 30,000 m³/h, 30,001 – 50,000 m³/h, 5,001 – 15,000 m³/h, ?5,000 m³/h, ?50,001 m³/h) and Regional Forecasts 2022-2032

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Abstracts

Global Air Handling Unit (AHU) Market is valued at approximately USD 13.75 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.10% over the forecast period 2024-2032. An Air Handling Unit (AHU) is a crucial component of an HVAC system designed to control and circulate air. AHUs provide clean, healthy air by regulating temperature, humidity, airborne contaminants, and airflow, thereby ensuring a conducive environment for occupants. By offering efficient ventilation and air conditioning, AHUs also contribute to reducing energy costs. The global Air Handling Unit (AHU) Market is experiencing growth driven by increasing urbanization and rising demand from various industries, notably food & beverages, pharmaceuticals, and chemicals. These industries require precise air handling solutions to maintain product quality and safety. However, challenges such as the high energy consumption of AHUs, mechanical issues, and periodic maintenance requirements impede market growth. Market players are focusing on offering energy-efficient solutions, incorporating IoT technology, and innovating in both commercial and residential applications to expand their customer base. Modern AHUs are characterized by high efficiency, low noise levels, and customization options such as heat recovery systems and variable speed drives. Compact models are also being introduced, making them suitable for installations in limited spaces.

The market's substantial adoption of modular AHUs is driven by their adaptability and

efficiency, particularly in sustainable building practices. Custom AHUs are tailored to specific size and environmental constraints, while Direct Expansion (DX) Integrated units offer space-saving cooling solutions. Low Profile AHUs are ideal for areas with height constraints, and Modular AHUs provide scalability. Packaged units and Rooftop Mounted units optimize space utilization and are suitable for commercial and industrial applications, enduring extreme weather conditions.

In commercial environments, AHUs ensure effective ventilation, air quality management, and temperature regulation, driven by the need for energy efficiency and compliance with environmental regulations. The residential sector is increasingly incorporating AHUs, particularly in luxury homes and apartments, driven by awareness of indoor air quality benefits and the demand for energy-efficient HVAC technologies. The key regions considered for the global Air Handling Unit (AHU) Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Air Handling Unit (AHU) Market in terms of revenue. The market growth in the region is being attributed to factors including industrialization and stringent regulations for indoor air quality in manufacturing sectors. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by the expansion of corporate spaces and data centers, coupled with regional players offering innovative and energy-efficient solutions. Also, industrial production and the demand for advanced AHUs, with established players offering specialized products are further attributing to the regional market growth over the forecast period.

Major market players included in this report are:

Armcor Air Solutions
Beijing Holtop Air Conditioning Co., Ltd.
Blue Star Limited
C.I. Group Public Company Limited
Carrier Global Corporation
Casilica
Clima Tech Airconditioners GmbH
Cubix Automation Pvt. Ltd.
Daikin Industries, Ltd.
Danfoss A/S
Desiccant Rotors International Pvt. Ltd
Dunham Bush
ETS Nord AS
Eurotherm S.p.A.
Finpower Aircon Systems Pvt Ltd

The detailed segments and sub-segment of the market are explained below:

By Type

- Custom
- DX Integrated
- Low Profile
- Modular
- Packaged
- Rooftop Mounted

By Effect

- Double Effect
- Single Effect

By Application

- Commercial
- Residential

By Capacity

- 15,001 – 30,000 m3/h
- 30,001 – 50,000 m3/h
- 5,001 – 15,000 m3/h
- ?5,000 m3/h
- ?50,001 m3/h

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil

- Mexico
- RoLA

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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