

# Global Water-cooled Charge Air Cooler Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Water-cooled Charge Air Cooler market size is expected to reach \$ 946 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of Water-cooled Charge Air Coolers reached 64,800 units, with an average selling price of US\$7,900 per unit. Water-cooled Charge Air Coolers are devices that use water as a cooling medium to cool compressed air (such as the high-temperature air output from turbochargers or compressed air systems) through heat exchange. They are widely used in internal combustion engines, marine power systems, heavy construction machinery, and industrial compressed air systems to reduce air temperature, increase air density, improve combustion efficiency, and enhance overall system performance. Global total production capacity is approximately 82,000 units per year, with an overall gross profit margin of approximately 36%. Upstream raw materials mainly include copper/aluminum tubing for heat exchangers, steel shells, gaskets, pumps, and water circuit control valves, with metal materials and mechanical parts accounting for the largest proportion of material consumption. Downstream suppliers primarily supply automotive and construction machinery manufacturers, marine equipment companies, and industrial gas system integrators. With increasing global demands for improved engine efficiency, emission control, and energy conservation, the need for efficient thermal management solutions is growing. This is driving the development of water-cooled turbocharged air coolers towards higher heat exchange efficiency, more compact structures, and intelligent temperature control integration. Future prospects lie in their integration with electric turbocharging systems and intelligent thermal management modules, as well as providing high-performance cooling solutions for new energy hybrid power systems. Business opportunities mainly come from the upgrading of heavy equipment, the tightening of fuel efficiency regulations, and

the expansion of energy-saving retrofitting needs in industrial systems.

The market outlook for Water-cooled Charge Air Coolers is robust and positive, benefiting from the continued growth in global demand for powertrain thermal management, increasingly stringent emission regulations, and the advancement of goals for efficient combustion and energy conservation and emission reduction. In automotive engines, construction machinery powertrains, marine mainframes, and industrial compressed air equipment, turbocharged air cooling has become a crucial technology for improving efficiency, reducing emissions, and extending equipment lifespan. Compared to traditional air-cooled cooling solutions, Water-cooled Charge Air Coolers offer superior performance under high-load and high-ambient-temperature conditions due to their higher heat transfer efficiency, more stable temperature control, and more compact assembly, making them widely adopted in heavy-duty transportation, engineering equipment, and high-performance powertrain systems. With the increasing emphasis on energy conservation and emission reduction policies globally and the growing demand for intelligent thermal control in powertrain systems, cooler products are evolving towards more efficient heat exchange designs, lighter materials, and integrated intelligent control.

Furthermore, the thermal management needs of new energy vehicles and hybrid powertrain systems are also creating new growth opportunities for water-cooled turbocharged air cooling technology. Suppliers' technological innovations in improving product thermal efficiency, reliability, and durability will further enhance their competitiveness in this highly competitive market. Overall, this market segment will continue to expand as the equipment manufacturing industry upgrades, regulations drive growth, and customers demand greater overall system performance optimization.

This report studies the global Water-cooled Charge Air Cooler production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Water-cooled Charge Air Cooler and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Water-cooled Charge Air Cooler that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Water-cooled Charge Air Cooler total production and demand, 2021-2032, (K Units)

Global Water-cooled Charge Air Cooler total production value, 2021-2032, (USD Million)

Global Water-cooled Charge Air Cooler production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Water-cooled Charge Air Cooler consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Water-cooled Charge Air Cooler domestic production, consumption, key domestic manufacturers and share

Global Water-cooled Charge Air Cooler production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Water-cooled Charge Air Cooler production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Water-cooled Charge Air Cooler production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Water-cooled Charge Air Cooler market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Conflux Technology, API Heat Transfer, Dana Incorporated, Alkraft, Hanon Systems, FARAD, Bell Intercoolers, EJBowman, AKG Group, Thermex, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Water-cooled Charge Air Cooler market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Water-cooled Charge Air Cooler Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Water-cooled Charge Air Cooler Market, Segmentation by Type:

Aluminum

Copper

Others

#### Global Water-cooled Charge Air Cooler Market, Segmentation by Core Structure:

Tube-fin Type

Plate-fin Type

Plate Type

Shell-tube Type

#### Global Water-cooled Charge Air Cooler Market, Segmentation by Fluid Channels:

Counter-current Flow

Co-current Flow

Cross-flow Flow

#### Global Water-cooled Charge Air Cooler Market, Segmentation by Application:

Automobile Field

Ship Field

Others

#### Companies Profiled:

Conflux Technology

API Heat Transfer

Dana Incorporated

Alkraft

Hanon Systems

FARAD

Bell Intercoolers

EJBowman

AKG Group

Thermex

Mahle

AKS Heat Transfer Ltd

Hanon Systems

Conflux Technology

Sterling Thermal Technology

**Key Questions Answered:**

1. How big is the global Water-cooled Charge Air Cooler market?
2. What is the demand of the global Water-cooled Charge Air Cooler market?
3. What is the year over year growth of the global Water-cooled Charge Air Cooler market?
4. What is the production and production value of the global Water-cooled Charge Air Cooler market?
5. Who are the key producers in the global Water-cooled Charge Air Cooler market?
6. What are the growth factors driving the market demand?

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