

Global Turbine Cooler Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Turbine Cooler market size was valued at US\$ 1091 million in 2025 and is forecast to a readjusted size of US\$ 1603 million by 2032 with a CAGR of 5.6% during review period.

An air-cycle turbine cooler, commonly referred to as an Air Cycle Machine, is a high-speed turbomachinery module that uses air as the working medium and an expansion turbine as the principal cooling element. In a typical configuration, compressed air is pre-cooled through heat exchangers and then expanded through a turbine to produce a low-temperature air stream for cabin conditioning, avionics cooling, mission-pod thermal control, unmanned aircraft environmental control, or industrial low-temperature refrigeration. The module may integrate a turbine, compressor, fan, bearings, seals, housings, sensors and control interfaces, depending on whether it is designed as a two-wheel, three-wheel or more advanced air-cycle architecture.

This research focuses on the turbine-cooling module and directly integrated air-cycle refrigeration hardware rather than the broader thermal-management ecosystem. Indicative transaction values vary materially by certification level, platform and integration scope; aerospace-grade ACM units are commonly assessed in the range of approximately USD 0.12?0.45 million per unit, while military or special-mission units can be higher, and industrial air-cycle refrigeration modules or systems may range broadly from roughly USD 0.15?1.20 million depending on capacity and temperature requirements.

Based on our research, the air-cycle turbine cooler market should be treated as a specialised turbomachinery and environmental-control segment rather than as a broad refrigeration or heat-exchanger market. The core product is the air-cycle machine or

turbine-cooling module that generates cold air through expansion rather than through a conventional refrigerant cycle. This distinction is critical for market sizing because aircraft environmental-control systems, general heat exchangers, liquid cooling modules and vapour-cycle air-conditioning systems are much broader categories and would materially overstate the addressable market. Under a narrow definition, the global supplier base is relatively small, with only a limited number of companies possessing the certification base, installed fleet exposure, rotating-machinery know-how and platform relationships required to supply aerospace-grade ACMs. The broader longlist is nevertheless wider than the core formal list because several companies participate in adjacent thermal-management, industrial air-cycle refrigeration, or regional aerospace supply-chain positions without sufficient evidence to be treated as leading ACM OEMs.

From a supply-side perspective, the market is structurally concentrated around North American and European aerospace system suppliers, complemented by specialised European and Japanese companies in air-cycle refrigeration and by a smaller number of emerging or regional suppliers. The most defensible formal list is led by companies with official evidence of aircraft air-management systems, air-cycle refrigeration modules, cooling turbines or ACM-related products. European suppliers have a comparatively diversified position because they cover not only aerospace but also rail HVAC and industrial low-GWP refrigeration applications. Japan's role is more visible in industrial air-cycle low-temperature refrigeration, while China shows meaningful technical and industrial clues in aviation environmental-control systems but has less transparent public product evidence. For this reason, selected Chinese entities are retained in the longlist and high-priority watchlist instead of being excluded merely because financial or product disclosures are incomplete.

Demand is anchored by aircraft production, the installed fleet aftermarket, defence and special-mission platforms, and selected industrial low-temperature applications. New aircraft deliveries support OEM linefit demand, but the aftermarket is structurally important because ACMs operate within certified aircraft platforms that require long-cycle maintenance, replacement and overhaul support. In parallel, higher-power avionics, electronic-warfare pods, unmanned aircraft and missionised platforms create additional cooling challenges that can favour compact air-cycle solutions in specific applications. The industrial growth case is different: it is driven by the need for natural refrigerants, ultra-low-temperature capability, regulatory pressure on high-GWP refrigerants and safety-sensitive cold-chain or process-cooling use cases. As a result, the sector's long-term growth profile is moderate in mature aerospace platforms but more dynamic in industrial and low-GWP niches.

Technologically, the sector is evolving toward higher reliability, more efficient turbomachinery, improved bearing systems, lower maintenance burden, digital health monitoring and better integration with more-electric aircraft architectures. Air-cycle systems retain advantages in high-altitude applications, refrigerant-free operation and certain safety-critical environments, but they also face substitution pressure from advanced vapour-cycle systems, liquid cooling and hybrid thermal-management architectures. Future competition is therefore unlikely to be decided by a single cooling technology. Instead, the market will be shaped by platform-level trade-offs among reliability, weight, power consumption, certification cost, maintainability and environmental compliance. This favours established aerospace suppliers on major aircraft programmes while leaving room for specialised suppliers in UAVs, mission pods, industrial ultra-low-temperature systems and low-GWP transport HVAC.

This report is a detailed and comprehensive analysis for global Turbine Cooler market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Architecture and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Turbine Cooler market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Turbine Cooler market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Turbine Cooler market size and forecasts, by Product Architecture and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Turbine Cooler market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Turbine Cooler

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Turbine Cooler market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RTX Corporation, Honeywell International Inc., Liebherr-International AG, Safran S.A., PBS GROUP, Anova, Mayekawa Mfg. Co., Ltd., MIRAI INTEX s.r.o., AVIC Airborne Systems, Parker Hannifin, etc.

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

Market Segmentation

Turbine Cooler market is split by Product Architecture and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Architecture, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Product Architecture

Simple Expansion Turbine Cooler

Two-wheel Air Cycle Machine

Three-wheel Air Cycle Machine

Four-wheel / Advanced ACM

Other

Market segment by Drive Concept

Pneumatic Shaft-driven ACM

Motorized / Electrically Assisted ACM

Air-bearing / Foil-bearing ACM

Other

Market segment by Temperature Range

Cabin and Equipment Cooling Range

Low-temperature Air-cycle Range

Ultra-low Temperature Range

Other

Market segment by Sales Channel and Lifecycle

OEM Linefit

Aftermarket Spares

Overhaul and Exchange Units

Retrofit and Upgrade Projects

Other

Market segment by Application

Commercial Aircraft

Military and Special Mission Aircraft

Rail and Public Transport HVAC

Industrial Low-temperature Refrigeration

Other

Major players covered

RTX Corporation

Honeywell International Inc.

Liebherr-International AG

Safran S.A.

PBS GROUP

Anova

Mayekawa Mfg. Co., Ltd.

MIRAI INTEX s.r.o.

AVIC Airborne Systems

Parker Hannifin

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Turbine Cooler product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Turbine Cooler, with price, sales quantity, revenue, and global market share of Turbine Cooler from 2021 to 2026.

Chapter 3, the Turbine Cooler competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Turbine Cooler breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Product Architecture and by Application, with sales market share and growth rate by Product Architecture, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Turbine Cooler market forecast, by regions, by Product Architecture, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Turbine Cooler.

Chapter 14 and 15, to describe Turbine Cooler sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Product Architecture

1.3.1 Overview: Global Turbine Cooler Consumption Value by Product Architecture: 2021 Versus 2025 Versus 2032

1.3.2 Simple Expansion Turbine Cooler

1.3.3 Two-wheel Air Cycle Machine

1.3.4 Three-wheel Air Cycle Machine

1.3.5 Four-wheel / Advanced ACM

1.3.6 Other

1.4 Market Analysis by Drive Concept

1.4.1 Overview: Global Turbine Cooler Consumption Value by Drive Concept: 2021 Versus 2025 Versus 2032

1.4.2 Pneumatic Shaft-driven ACM

1.4.3 Motorized / Electrically Assisted ACM

1.4.4 Air-bearing / Foil-bearing ACM

1.4.5 Other

1.5 Market Analysis by Temperature Range

1.5.1 Overview: Global Turbine Cooler Consumption Value by Temperature Range: 2021 Versus 2025 Versus 2032

1.5.2 Cabin and Equipment Cooling Range

1.5.3 Low-temperature Air-cycle Range

1.5.4 Ultra-low Temperature Range

1.5.5 Other

1.6 Market Analysis by Sales Channel and Lifecycle

1.6.1 Overview: Global Turbine Cooler Consumption Value by Sales Channel and Lifecycle: 2021 Versus 2025 Versus 2032

1.6.2 OEM Linefit

1.6.3 Aftermarket Spares

1.6.4 Overhaul and Exchange Units

1.6.5 Retrofit and Upgrade Projects

1.6.6 Other

1.7 Market Analysis by Application

1.7.1 Overview: Global Turbine Cooler Consumption Value by Application: 2021 Versus 2025 Versus 2032

- 1.7.2 Commercial Aircraft
- 1.7.3 Military and Special Mission Aircraft
- 1.7.4 Rail and Public Transport HVAC
- 1.7.5 Industrial Low-temperature Refrigeration
- 1.7.6 Other
- 1.8 Global Turbine Cooler Market Size & Forecast
 - 1.8.1 Global Turbine Cooler Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Turbine Cooler Sales Quantity (2021-2032)
 - 1.8.3 Global Turbine Cooler Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 RTX Corporation
 - 2.1.1 RTX Corporation Details
 - 2.1.2 RTX Corporation Major Business
 - 2.1.3 RTX Corporation Turbine Cooler Product and Services
 - 2.1.4 RTX Corporation Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.1.5 RTX Corporation Recent Developments/Updates
- 2.2 Honeywell International Inc.
 - 2.2.1 Honeywell International Inc. Details
 - 2.2.2 Honeywell International Inc. Major Business
 - 2.2.3 Honeywell International Inc. Turbine Cooler Product and Services
 - 2.2.4 Honeywell International Inc. Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Honeywell International Inc. Recent Developments/Updates
- 2.3 Liebherr-International AG
 - 2.3.1 Liebherr-International AG Details
 - 2.3.2 Liebherr-International AG Major Business
 - 2.3.3 Liebherr-International AG Turbine Cooler Product and Services
 - 2.3.4 Liebherr-International AG Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Liebherr-International AG Recent Developments/Updates
- 2.4 Safran S.A.
 - 2.4.1 Safran S.A. Details
 - 2.4.2 Safran S.A. Major Business
 - 2.4.3 Safran S.A. Turbine Cooler Product and Services
 - 2.4.4 Safran S.A. Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Safran S.A. Recent Developments/Updates

2.5 PBS GROUP

2.5.1 PBS GROUP Details

2.5.2 PBS GROUP Major Business

2.5.3 PBS GROUP Turbine Cooler Product and Services

2.5.4 PBS GROUP Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 PBS GROUP Recent Developments/Updates

2.6 Anova

2.6.1 Anova Details

2.6.2 Anova Major Business

2.6.3 Anova Turbine Cooler Product and Services

2.6.4 Anova Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Anova Recent Developments/Updates

2.7 Mayekawa Mfg. Co., Ltd.

2.7.1 Mayekawa Mfg. Co., Ltd. Details

2.7.2 Mayekawa Mfg. Co., Ltd. Major Business

2.7.3 Mayekawa Mfg. Co., Ltd. Turbine Cooler Product and Services

2.7.4 Mayekawa Mfg. Co., Ltd. Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Mayekawa Mfg. Co., Ltd. Recent Developments/Updates

2.8 MIRAI INTEX s.r.o.

2.8.1 MIRAI INTEX s.r.o. Details

2.8.2 MIRAI INTEX s.r.o. Major Business

2.8.3 MIRAI INTEX s.r.o. Turbine Cooler Product and Services

2.8.4 MIRAI INTEX s.r.o. Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 MIRAI INTEX s.r.o. Recent Developments/Updates

2.9 AVIC Airborne Systems

2.9.1 AVIC Airborne Systems Details

2.9.2 AVIC Airborne Systems Major Business

2.9.3 AVIC Airborne Systems Turbine Cooler Product and Services

2.9.4 AVIC Airborne Systems Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 AVIC Airborne Systems Recent Developments/Updates

2.10 Parker Hannifin

2.10.1 Parker Hannifin Details

2.10.2 Parker Hannifin Major Business

- 2.10.3 Parker Hannifin Turbine Cooler Product and Services
- 2.10.4 Parker Hannifin Turbine Cooler Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.10.5 Parker Hannifin Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: TURBINE COOLER BY MANUFACTURER

- 3.1 Global Turbine Cooler Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Turbine Cooler Revenue by Manufacturer (2021-2026)
- 3.3 Global Turbine Cooler Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Turbine Cooler by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Turbine Cooler Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Turbine Cooler Manufacturer Market Share in 2025
- 3.5 Turbine Cooler Market: Overall Company Footprint Analysis
 - 3.5.1 Turbine Cooler Market: Region Footprint
 - 3.5.2 Turbine Cooler Market: Company Product Type Footprint
 - 3.5.3 Turbine Cooler Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Turbine Cooler Market Size by Region
 - 4.1.1 Global Turbine Cooler Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Turbine Cooler Consumption Value by Region (2021-2032)
 - 4.1.3 Global Turbine Cooler Average Price by Region (2021-2032)
- 4.2 North America Turbine Cooler Consumption Value (2021-2032)
- 4.3 Europe Turbine Cooler Consumption Value (2021-2032)
- 4.4 Asia-Pacific Turbine Cooler Consumption Value (2021-2032)
- 4.5 South America Turbine Cooler Consumption Value (2021-2032)
- 4.6 Middle East & Africa Turbine Cooler Consumption Value (2021-2032)

5 MARKET SEGMENT BY PRODUCT ARCHITECTURE

- 5.1 Global Turbine Cooler Sales Quantity by Product Architecture (2021-2032)
- 5.2 Global Turbine Cooler Consumption Value by Product Architecture (2021-2032)
- 5.3 Global Turbine Cooler Average Price by Product Architecture (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Turbine Cooler Sales Quantity by Application (2021-2032)
- 6.2 Global Turbine Cooler Consumption Value by Application (2021-2032)
- 6.3 Global Turbine Cooler Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Turbine Cooler Sales Quantity by Product Architecture (2021-2032)
- 7.2 North America Turbine Cooler Sales Quantity by Application (2021-2032)
- 7.3 North America Turbine Cooler Market Size by Country
 - 7.3.1 North America Turbine Cooler Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Turbine Cooler Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Turbine Cooler Sales Quantity by Product Architecture (2021-2032)
- 8.2 Europe Turbine Cooler Sales Quantity by Application (2021-2032)
- 8.3 Europe Turbine Cooler Market Size by Country
 - 8.3.1 Europe Turbine Cooler Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Turbine Cooler Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Turbine Cooler Sales Quantity by Product Architecture (2021-2032)
- 9.2 Asia-Pacific Turbine Cooler Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Turbine Cooler Market Size by Region
 - 9.3.1 Asia-Pacific Turbine Cooler Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Turbine Cooler Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)

- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Turbine Cooler Sales Quantity by Product Architecture (2021-2032)
- 10.2 South America Turbine Cooler Sales Quantity by Application (2021-2032)
- 10.3 South America Turbine Cooler Market Size by Country
 - 10.3.1 South America Turbine Cooler Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Turbine Cooler Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Turbine Cooler Sales Quantity by Product Architecture (2021-2032)
- 11.2 Middle East & Africa Turbine Cooler Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Turbine Cooler Market Size by Country
 - 11.3.1 Middle East & Africa Turbine Cooler Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Turbine Cooler Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Turbine Cooler Market Drivers
- 12.2 Turbine Cooler Market Restraints
- 12.3 Turbine Cooler Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Turbine Cooler and Key Manufacturers

13.2 Manufacturing Costs Percentage of Turbine Cooler

13.3 Turbine Cooler Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Turbine Cooler Typical Distributors

14.3 Turbine Cooler Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Turbine Cooler Consumption Value by Product Architecture, (USD Million), 2021 & 2025 & 2032

Table 2. Global Turbine Cooler Consumption Value by Drive Concept, (USD Million), 2021 & 2025 & 2032

Table 3. Global Turbine Cooler Consumption Value by Temperature Range, (USD Million), 2021 & 2025 & 2032

Table 4. Global Turbine Cooler Consumption Value by Sales Channel and Lifecycle, (USD Million), 2021 & 2025 & 2032

Table 5. Global Turbine Cooler Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. RTX Corporation Basic Information, Manufacturing Base and Competitors

Table 7. RTX Corporation Major Business

Table 8. RTX Corporation Turbine Cooler Product and Services

Table 9. RTX Corporation Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. RTX Corporation Recent Developments/Updates

Table 11. Honeywell International Inc. Basic Information, Manufacturing Base and Competitors

Table 12. Honeywell International Inc. Major Business

Table 13. Honeywell International Inc. Turbine Cooler Product and Services

Table 14. Honeywell International Inc. Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Honeywell International Inc. Recent Developments/Updates

Table 16. Liebherr-International AG Basic Information, Manufacturing Base and Competitors

Table 17. Liebherr-International AG Major Business

Table 18. Liebherr-International AG Turbine Cooler Product and Services

Table 19. Liebherr-International AG Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Liebherr-International AG Recent Developments/Updates

Table 21. Safran S.A. Basic Information, Manufacturing Base and Competitors

Table 22. Safran S.A. Major Business

Table 23. Safran S.A. Turbine Cooler Product and Services

Table 24. Safran S.A. Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Safran S.A. Recent Developments/Updates

Table 26. PBS GROUP Basic Information, Manufacturing Base and Competitors

Table 27. PBS GROUP Major Business

Table 28. PBS GROUP Turbine Cooler Product and Services

Table 29. PBS GROUP Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. PBS GROUP Recent Developments/Updates

Table 31. Anova Basic Information, Manufacturing Base and Competitors

Table 32. Anova Major Business

Table 33. Anova Turbine Cooler Product and Services

Table 34. Anova Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Anova Recent Developments/Updates

Table 36. Mayekawa Mfg. Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 37. Mayekawa Mfg. Co., Ltd. Major Business

Table 38. Mayekawa Mfg. Co., Ltd. Turbine Cooler Product and Services

Table 39. Mayekawa Mfg. Co., Ltd. Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Mayekawa Mfg. Co., Ltd. Recent Developments/Updates

Table 41. MIRAI INTEx s.r.o. Basic Information, Manufacturing Base and Competitors

Table 42. MIRAI INTEx s.r.o. Major Business

Table 43. MIRAI INTEx s.r.o. Turbine Cooler Product and Services

Table 44. MIRAI INTEx s.r.o. Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. MIRAI INTEx s.r.o. Recent Developments/Updates

Table 46. AVIC Airborne Systems Basic Information, Manufacturing Base and Competitors

Table 47. AVIC Airborne Systems Major Business

Table 48. AVIC Airborne Systems Turbine Cooler Product and Services

Table 49. AVIC Airborne Systems Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. AVIC Airborne Systems Recent Developments/Updates

Table 51. Parker Hannifin Basic Information, Manufacturing Base and Competitors

Table 52. Parker Hannifin Major Business

Table 53. Parker Hannifin Turbine Cooler Product and Services

Table 54. Parker Hannifin Turbine Cooler Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Parker Hannifin Recent Developments/Updates

Table 56. Global Turbine Cooler Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 57. Global Turbine Cooler Revenue by Manufacturer (2021-2026) & (USD Million)

Table 58. Global Turbine Cooler Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 59. Market Position of Manufacturers in Turbine Cooler, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 60. Head Office and Turbine Cooler Production Site of Key Manufacturer

Table 61. Turbine Cooler Market: Company Product Type Footprint

Table 62. Turbine Cooler Market: Company Product Application Footprint

Table 63. Turbine Cooler New Market Entrants and Barriers to Market Entry

Table 64. Turbine Cooler Mergers, Acquisition, Agreements, and Collaborations

Table 65. Global Turbine Cooler Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 66. Global Turbine Cooler Sales Quantity by Region (2021-2026) & (Units)

Table 67. Global Turbine Cooler Sales Quantity by Region (2027-2032) & (Units)

Table 68. Global Turbine Cooler Consumption Value by Region (2021-2026) & (USD Million)

Table 69. Global Turbine Cooler Consumption Value by Region (2027-2032) & (USD Million)

Table 70. Global Turbine Cooler Average Price by Region (2021-2026) & (K US\$/Unit)

Table 71. Global Turbine Cooler Average Price by Region (2027-2032) & (K US\$/Unit)

Table 72. Global Turbine Cooler Sales Quantity by Product Architecture (2021-2026) & (Units)

Table 73. Global Turbine Cooler Sales Quantity by Product Architecture (2027-2032) & (Units)

Table 74. Global Turbine Cooler Consumption Value by Product Architecture (2021-2026) & (USD Million)

Table 75. Global Turbine Cooler Consumption Value by Product Architecture (2027-2032) & (USD Million)

Table 76. Global Turbine Cooler Average Price by Product Architecture (2021-2026) & (K US\$/Unit)

Table 77. Global Turbine Cooler Average Price by Product Architecture (2027-2032) & (K US\$/Unit)

Table 78. Global Turbine Cooler Sales Quantity by Application (2021-2026) & (Units)

Table 79. Global Turbine Cooler Sales Quantity by Application (2027-2032) & (Units)

Table 80. Global Turbine Cooler Consumption Value by Application (2021-2026) &

(USD Million)

Table 81. Global Turbine Cooler Consumption Value by Application (2027-2032) & (USD Million)

Table 82. Global Turbine Cooler Average Price by Application (2021-2026) & (K US\$/Unit)

Table 83. Global Turbine Cooler Average Price by Application (2027-2032) & (K US\$/Unit)

Table 84. North America Turbine Cooler Sales Quantity by Product Architecture (2021-2026) & (Units)

Table 85. North America Turbine Cooler Sales Quantity by Product Architecture (2027-2032) & (Units)

Table 86. North America Turbine Cooler Sales Quantity by Application (2021-2026) & (Units)

Table 87. North America Turbine Cooler Sales Quantity by Application (2027-2032) & (Units)

Table 88. North America Turbine Cooler Sales Quantity by Country (2021-2026) & (Units)

Table 89. North America Turbine Cooler Sales Quantity by Country (2027-2032) & (Units)

Table 90. North America Turbine Cooler Consumption Value by Country (2021-2026) & (USD Million)

Table 91. North America Turbine Cooler Consumption Value by Country (2027-2032) & (USD Million)

Table 92. Europe Turbine Cooler Sales Quantity by Product Architecture (2021-2026) & (Units)

Table 93. Europe Turbine Cooler Sales Quantity by Product Architecture (2027-2032) & (Units)

Table 94. Europe Turbine Cooler Sales Quantity by Application (2021-2026) & (Units)

Table 95. Europe Turbine Cooler Sales Quantity by Application (2027-2032) & (Units)

Table 96. Europe Turbine Cooler Sales Quantity by Country (2021-2026) & (Units)

Table 97. Europe Turbine Cooler Sales Quantity by Country (2027-2032) & (Units)

Table 98. Europe Turbine Cooler Consumption Value by Country (2021-2026) & (USD Million)

Table 99. Europe Turbine Cooler Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Asia-Pacific Turbine Cooler Sales Quantity by Product Architecture (2021-2026) & (Units)

Table 101. Asia-Pacific Turbine Cooler Sales Quantity by Product Architecture (2027-2032) & (Units)

Table 102. Asia-Pacific Turbine Cooler Sales Quantity by Application (2021-2026) & (Units)

Table 103. Asia-Pacific Turbine Cooler Sales Quantity by Application (2027-2032) & (Units)

Table 104. Asia-Pacific Turbine Cooler Sales Quantity by Region (2021-2026) & (Units)

Table 105. Asia-Pacific Turbine Cooler Sales Quantity by Region (2027-2032) & (Units)

Table 106. Asia-Pacific Turbine Cooler Consumption Value by Region (2021-2026) & (USD Million)

Table 107. Asia-Pacific Turbine Cooler Consumption Value by Region (2027-2032) & (USD Million)

Table 108. South America Turbine Cooler Sales Quantity by Product Architecture (2021-2026) & (Units)

Table 109. South America Turbine Cooler Sales Quantity by Product Architecture (2027-2032) & (Units)

Table 110. South America Turbine Cooler Sales Quantity by Application (2021-2026) & (Units)

Table 111. South America Turbine Cooler Sales Quantity by Application (2027-2032) & (Units)

Table 112. South America Turbine Cooler Sales Quantity by Country (2021-2026) & (Units)

Table 113. South America Turbine Cooler Sales Quantity by Country (2027-2032) & (Units)

Table 114. South America Turbine Cooler Consumption Value by Country (2021-2026) & (USD Million)

Table 115. South America Turbine Cooler Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Middle East & Africa Turbine Cooler Sales Quantity by Product Architecture (2021-2026) & (Units)

Table 117. Middle East & Africa Turbine Cooler Sales Quantity by Product Architecture (2027-2032) & (Units)

Table 118. Middle East & Africa Turbine Cooler Sales Quantity by Application (2021-2026) & (Units)

Table 119. Middle East & Africa Turbine Cooler Sales Quantity by Application (2027-2032) & (Units)

Table 120. Middle East & Africa Turbine Cooler Sales Quantity by Country (2021-2026) & (Units)

Table 121. Middle East & Africa Turbine Cooler Sales Quantity by Country (2027-2032) & (Units)

Table 122. Middle East & Africa Turbine Cooler Consumption Value by Country

(2021-2026) & (USD Million)

Table 123. Middle East & Africa Turbine Cooler Consumption Value by Country

(2027-2032) & (USD Million)

Table 124. Turbine Cooler Raw Material

Table 125. Key Manufacturers of Turbine Cooler Raw Materials

Table 126. Turbine Cooler Typical Distributors

Table 127. Turbine Cooler Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Turbine Cooler Picture

Figure 2. Global Turbine Cooler Revenue by Product Architecture, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Turbine Cooler Revenue Market Share by Product Architecture in 2025

Figure 4. Simple Expansion Turbine Cooler Examples

Figure 5. Two-wheel Air Cycle Machine Examples

Figure 6. Three-wheel Air Cycle Machine Examples

Figure 7. Four-wheel / Advanced ACM Examples

Figure 8. Other Examples

Figure 9. Global Turbine Cooler Revenue by Drive Concept, (USD Million), 2021 & 2025 & 2032

Figure 10. Global Turbine Cooler Revenue Market Share by Drive Concept in 2025

Figure 11. Pneumatic Shaft-driven ACM Examples

Figure 12. Motorized / Electrically Assisted ACM Examples

Figure 13. Air-bearing / Foil-bearing ACM Examples

Figure 14. Other Examples

Figure 15. Global Turbine Cooler Revenue by Temperature Range, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Turbine Cooler Revenue Market Share by Temperature Range in 2025

Figure 17. Cabin and Equipment Cooling Range Examples

Figure 18. Low-temperature Air-cycle Range Examples

Figure 19. Ultra-low Temperature Range Examples

Figure 20. Other Examples

Figure 21. Global Turbine Cooler Revenue by Sales Channel and Lifecycle, (USD Million), 2021 & 2025 & 2032

Figure 22. Global Turbine Cooler Revenue Market Share by Sales Channel and Lifecycle in 2025

Figure 23. OEM Linefit Examples

Figure 24. Aftermarket Spares Examples

Figure 25. Overhaul and Exchange Units Examples

Figure 26. Retrofit and Upgrade Projects Examples

Figure 27. Other Examples

Figure 28. Global Turbine Cooler Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 29. Global Turbine Cooler Revenue Market Share by Application in 2025

Figure 30. Commercial Aircraft Examples

Figure 31. Military and Special Mission Aircraft Examples

Figure 32. Rail and Public Transport HVAC Examples

Figure 33. Industrial Low-temperature Refrigeration Examples

Figure 34. Other Examples

Figure 35. Global Turbine Cooler Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 36. Global Turbine Cooler Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 37. Global Turbine Cooler Sales Quantity (2021-2032) & (Units)

Figure 38. Global Turbine Cooler Price (2021-2032) & (K US\$/Unit)

Figure 39. Global Turbine Cooler Sales Quantity Market Share by Manufacturer in 2025

Figure 40. Global Turbine Cooler Revenue Market Share by Manufacturer in 2025

Figure 41. Producer Shipments of Turbine Cooler by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 42. Top 3 Turbine Cooler Manufacturer (Revenue) Market Share in 2025

Figure 43. Top 6 Turbine Cooler Manufacturer (Revenue) Market Share in 2025

Figure 44. Global Turbine Cooler Sales Quantity Market Share by Region (2021-2032)

Figure 45. Global Turbine Cooler Consumption Value Market Share by Region (2021-2032)

Figure 46. North America Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 48. Asia-Pacific Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 49. South America Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 50. Middle East & Africa Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 51. Global Turbine Cooler Sales Quantity Market Share by Product Architecture (2021-2032)

Figure 52. Global Turbine Cooler Consumption Value Market Share by Product Architecture (2021-2032)

Figure 53. Global Turbine Cooler Average Price by Product Architecture (2021-2032) & (K US\$/Unit)

Figure 54. Global Turbine Cooler Sales Quantity Market Share by Application (2021-2032)

Figure 55. Global Turbine Cooler Revenue Market Share by Application (2021-2032)

Figure 56. Global Turbine Cooler Average Price by Application (2021-2032) & (K

US\$/Unit)

Figure 57. North America Turbine Cooler Sales Quantity Market Share by Product Architecture (2021-2032)

Figure 58. North America Turbine Cooler Sales Quantity Market Share by Application (2021-2032)

Figure 59. North America Turbine Cooler Sales Quantity Market Share by Country (2021-2032)

Figure 60. North America Turbine Cooler Consumption Value Market Share by Country (2021-2032)

Figure 61. United States Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 62. Canada Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 63. Mexico Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 64. Europe Turbine Cooler Sales Quantity Market Share by Product Architecture (2021-2032)

Figure 65. Europe Turbine Cooler Sales Quantity Market Share by Application (2021-2032)

Figure 66. Europe Turbine Cooler Sales Quantity Market Share by Country (2021-2032)

Figure 67. Europe Turbine Cooler Consumption Value Market Share by Country (2021-2032)

Figure 68. Germany Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 69. France Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 70. United Kingdom Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 71. Russia Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 72. Italy Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 73. Asia-Pacific Turbine Cooler Sales Quantity Market Share by Product Architecture (2021-2032)

Figure 74. Asia-Pacific Turbine Cooler Sales Quantity Market Share by Application (2021-2032)

Figure 75. Asia-Pacific Turbine Cooler Sales Quantity Market Share by Region (2021-2032)

Figure 76. Asia-Pacific Turbine Cooler Consumption Value Market Share by Region (2021-2032)

Figure 77. China Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 78. Japan Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 79. South Korea Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 80. India Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 81. Southeast Asia Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 82. Australia Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 83. South America Turbine Cooler Sales Quantity Market Share by Product Architecture (2021-2032)

Figure 84. South America Turbine Cooler Sales Quantity Market Share by Application (2021-2032)

Figure 85. South America Turbine Cooler Sales Quantity Market Share by Country (2021-2032)

Figure 86. South America Turbine Cooler Consumption Value Market Share by Country (2021-2032)

Figure 87. Brazil Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 88. Argentina Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 89. Middle East & Africa Turbine Cooler Sales Quantity Market Share by Product Architecture (2021-2032)

Figure 90. Middle East & Africa Turbine Cooler Sales Quantity Market Share by Application (2021-2032)

Figure 91. Middle East & Africa Turbine Cooler Sales Quantity Market Share by Country (2021-2032)

Figure 92. Middle East & Africa Turbine Cooler Consumption Value Market Share by Country (2021-2032)

Figure 93. Turkey Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 94. Egypt Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 95. Saudi Arabia Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 96. South Africa Turbine Cooler Consumption Value (2021-2032) & (USD Million)

Figure 97. Turbine Cooler Market Drivers

Figure 98. Turbine Cooler Market Restraints

Figure 99. Turbine Cooler Market Trends

Figure 100. Porters Five Forces Analysis

Figure 101. Manufacturing Cost Structure Analysis of Turbine Cooler in 2025

Figure 102. Manufacturing Process Analysis of Turbine Cooler

Figure 103. Turbine Cooler Industrial Chain

Figure 104. Sales Channel: Direct to End-User vs Distributors

Figure 105. Direct Channel Pros & Cons

Figure 106. Indirect Channel Pros & Cons

Figure 107. Methodology

Figure 108. Research Process and Data Source

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