

# **Heat Exchanger Market By Type (Shell and Tube, Plate and Frame, Air-Cooled, Micro channel Heat Exchanger, Others) , By Material (Carbon Steel, Stainless Steel, Nickel, Others) By End-Use Industry (Chemical, Petrochemical, Oil and Gas, Food and Beverage, Power Generation, HVAC, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

<https://marketpublishers.com/r/HCAC1112834CEN.html>

Date: September 2024

Pages: 300

Price: US\$ 2,601.00 (Single User License)

ID: HCAC1112834CEN

## **Abstracts**

### **Heat Exchanger Market**

The heat exchanger market was valued at \$19.7 billion in 2023 and is projected to reach \$33.2 billion by 2033, growing at a CAGR of 5.4% from 2024 to 2033.

A heat exchanger is a device that moves thermal energy from one liquid to another without combining them together. It typically separates liquids through a solid wall and facilitates both heating & cooling. The device finds applications in automobile engines, gas boilers, air conditioners, and refrigerators. The major attributes of a heat exchanger include energy efficiency, low environmental impact, versatility, and durability.

Increase in efforts toward the reduction of energy consumption across industries is a significant driver of the heat exchanger market. Furthermore, implementation of stringent environmental mandates upon industrial facilities is boosting the adoption of heat exchangers and propelling the development of the market. A notable trend acquiring traction in the heat exchanger market is the usage of nanotechnology for heat transfer. Nanomaterials such as graphene and carbon nanotubes are being explored to

enable efficient transfer of heat at a nanoscale level.

However, advancements in technology have upsurged the overall prices of heat exchangers, deterring small-scale industries from investing in them and hampering the development of the market. Moreover, the maintenance of heat exchangers is a time-consuming process that restrains the market growth. On the contrary, as the industries across the globe are striving to reduce their greenhouse gas emissions and achieve the net zero target, the market is projected to witness several lucrative opportunities in coming years. According to the United Nations, the contribution of the industrial sector toward global emissions is approximately 34% owing to its energy- and carbon-intensive requirements. Therefore, the deployment of heat exchangers into industrial machinery is poised to open new avenues for the market.

## Segment Review

The heat exchanger market is segmented into type, material, end-use industry, and region. On the basis of type, the market is divided into shell & tube, plate & frame, air-cooled, micro channel heat exchanger, and others. Depending on material, it is classified into carbon steel, stainless steel, nickel, and others. As per end-use industry, it is categorized into chemical, petrochemical, oil & gas, food & beverage, power generation, HVAC, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of type, the shell & tube segment is expected to account for a high market share during the forecast period.

Depending on material, the stainless steel segment is projected to dominate the market by 2033.

As per end-use industry, the chemical segment is predicted to be the highest shareholder throughout the forecast period.

Region wise, Asia-Pacific is anticipated to be the highest revenue generator by 2033.

## Competition Analysis

The major players of the global heat exchanger market include Accessen Group, ALFA

LAVAL, API Heat Transfer, Chart Industries, Danfoss A/S, Hisaka Works. Ltd., Exchanger Industries Limited, Koch Industries, Inc., Thermofin GmbH, and Xylem. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

Additional benefits you will get with this purchase are:

Quarterly Update and\* (only available with a corporate license, on listed price)

5 additional Company Profile of client Choice pre- or Post-purchase, as a free update.

Free Upcoming Version on the Purchase of Five and Enterprise User License.

16 analyst hours of support\* (post-purchase, if you find additional data requirements upon review of the report, you may receive support amounting to 16 analyst hours to solve questions, and post-sale queries)

15% Free Customization\* (in case the scope or segment of the report does not match your requirements, 15% is equivalent to 3 working days of free work, applicable once)

Free data Pack on the Five and Enterprise User License. (Excel version of the report)

Free Updated report if the report is 6-12 months old or older.

24-hour priority response\*

Free Industry updates and white papers.

Possible Customization with this report (with additional cost and timeline, please talk to the sales executive to know more)

Manufacturing Capacity

Consumer Buying Behavior Analysis

End user preferences and pain points

Industry life cycle assessment, by region

Investment Opportunities

Upcoming/New Entrant by Regions

Technology Trend Analysis

Distributor margin Analysis

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

Market share analysis of players at global/region/country level

Product Consumption Analysis

SWOT Analysis

## Volume Market Size and Forecast

### Key Market Segments

#### By Type

Shell and Tube

Plate and Frame

Air-Cooled

Micro channel Heat Exchanger

Others

#### By Material

Carbon Steel

Stainless Steel

Nickel

Others

#### By End-Use Industry

Chemical

Petrochemical

Oil and Gas

Food and Beverage

Power Generation

HVAC

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Accessen Group

ALFA LAVAL

API Heat Transfer

Chart Industries

Danfoss A/S

Hisaka Works. Ltd

Exchanger Industries Limited

Koch Industries, Inc

Thermofin Gmbh

Xylem

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
  - 1.4.1. Primary Research
  - 1.4.2. Secondary Research
  - 1.4.3. Analyst Tools and Models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

### CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
  - 3.2.1. Top Investment Pockets
  - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
  - 3.3.1. Bargaining Power of Suppliers
  - 3.3.2. Threat of New Entrants
  - 3.3.3. Threat of Substitutes
  - 3.3.4. Competitive Rivalry
  - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
  - 3.4.1. Drivers
  - 3.4.2. Restraints
  - 3.4.3. Opportunities

### CHAPTER 4: HEAT EXCHANGER MARKET, BY TYPE

- 4.1. Market Overview
  - 4.1.1 Market Size and Forecast, By Type
- 4.2. Shell And Tube
  - 4.2.1. Key Market Trends, Growth Factors and Opportunities



- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Plate And Frame
  - 4.3.1. Key Market Trends, Growth Factors and Opportunities
  - 4.3.2. Market Size and Forecast, By Region
  - 4.3.3. Market Share Analysis, By Country
- 4.4. Air-Cooled
  - 4.4.1. Key Market Trends, Growth Factors and Opportunities
  - 4.4.2. Market Size and Forecast, By Region
  - 4.4.3. Market Share Analysis, By Country
- 4.5. Micro Channel Heat Exchanger
  - 4.5.1. Key Market Trends, Growth Factors and Opportunities
  - 4.5.2. Market Size and Forecast, By Region
  - 4.5.3. Market Share Analysis, By Country
- 4.6. Others
  - 4.6.1. Key Market Trends, Growth Factors and Opportunities
  - 4.6.2. Market Size and Forecast, By Region
  - 4.6.3. Market Share Analysis, By Country

## **CHAPTER 5: HEAT EXCHANGER MARKET, BY MATERIAL**

- 5.1. Market Overview
  - 5.1.1 Market Size and Forecast, By Material
- 5.2. Carbon Steel
  - 5.2.1. Key Market Trends, Growth Factors and Opportunities
  - 5.2.2. Market Size and Forecast, By Region
  - 5.2.3. Market Share Analysis, By Country
- 5.3. Stainless Steel
  - 5.3.1. Key Market Trends, Growth Factors and Opportunities
  - 5.3.2. Market Size and Forecast, By Region
  - 5.3.3. Market Share Analysis, By Country
- 5.4. Nickel
  - 5.4.1. Key Market Trends, Growth Factors and Opportunities
  - 5.4.2. Market Size and Forecast, By Region
  - 5.4.3. Market Share Analysis, By Country
- 5.5. Others
  - 5.5.1. Key Market Trends, Growth Factors and Opportunities
  - 5.5.2. Market Size and Forecast, By Region
  - 5.5.3. Market Share Analysis, By Country

## **CHAPTER 6: HEAT EXCHANGER MARKET, BY END-USE INDUSTRY**

### **6.1. Market Overview**

#### **6.1.1 Market Size and Forecast, By End-use Industry**

### **6.2. Chemical**

#### **6.2.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.2.2. Market Size and Forecast, By Region**

#### **6.2.3. Market Share Analysis, By Country**

### **6.3. Petrochemical**

#### **6.3.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.3.2. Market Size and Forecast, By Region**

#### **6.3.3. Market Share Analysis, By Country**

### **6.4. Oil And Gas**

#### **6.4.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.4.2. Market Size and Forecast, By Region**

#### **6.4.3. Market Share Analysis, By Country**

### **6.5. Food And Beverage**

#### **6.5.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.5.2. Market Size and Forecast, By Region**

#### **6.5.3. Market Share Analysis, By Country**

### **6.6. Power Generation**

#### **6.6.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.6.2. Market Size and Forecast, By Region**

#### **6.6.3. Market Share Analysis, By Country**

### **6.7. HVAC**

#### **6.7.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.7.2. Market Size and Forecast, By Region**

#### **6.7.3. Market Share Analysis, By Country**

### **6.8. Others**

#### **6.8.1. Key Market Trends, Growth Factors and Opportunities**

#### **6.8.2. Market Size and Forecast, By Region**

#### **6.8.3. Market Share Analysis, By Country**

## **CHAPTER 7: HEAT EXCHANGER MARKET, BY REGION**

### **7.1. Market Overview**

#### **7.1.1 Market Size and Forecast, By Region**

### **7.2. North America**

- 7.2.1. Key Market Trends and Opportunities
- 7.2.2. Market Size and Forecast, By Type
- 7.2.3. Market Size and Forecast, By Material
- 7.2.4. Market Size and Forecast, By End-use Industry
- 7.2.5. Market Size and Forecast, By Country
- 7.2.6. U.S. Heat Exchanger Market
  - 7.2.6.1. Market Size and Forecast, By Type
  - 7.2.6.2. Market Size and Forecast, By Material
  - 7.2.6.3. Market Size and Forecast, By End-use Industry
- 7.2.7. Canada Heat Exchanger Market
  - 7.2.7.1. Market Size and Forecast, By Type
  - 7.2.7.2. Market Size and Forecast, By Material
  - 7.2.7.3. Market Size and Forecast, By End-use Industry
- 7.2.8. Mexico Heat Exchanger Market
  - 7.2.8.1. Market Size and Forecast, By Type
  - 7.2.8.2. Market Size and Forecast, By Material
  - 7.2.8.3. Market Size and Forecast, By End-use Industry
- 7.3. Europe
  - 7.3.1. Key Market Trends and Opportunities
  - 7.3.2. Market Size and Forecast, By Type
  - 7.3.3. Market Size and Forecast, By Material
  - 7.3.4. Market Size and Forecast, By End-use Industry
  - 7.3.5. Market Size and Forecast, By Country
  - 7.3.6. France Heat Exchanger Market
    - 7.3.6.1. Market Size and Forecast, By Type
    - 7.3.6.2. Market Size and Forecast, By Material
    - 7.3.6.3. Market Size and Forecast, By End-use Industry
  - 7.3.7. Germany Heat Exchanger Market
    - 7.3.7.1. Market Size and Forecast, By Type
    - 7.3.7.2. Market Size and Forecast, By Material
    - 7.3.7.3. Market Size and Forecast, By End-use Industry
  - 7.3.8. Italy Heat Exchanger Market
    - 7.3.8.1. Market Size and Forecast, By Type
    - 7.3.8.2. Market Size and Forecast, By Material
    - 7.3.8.3. Market Size and Forecast, By End-use Industry
  - 7.3.9. Spain Heat Exchanger Market
    - 7.3.9.1. Market Size and Forecast, By Type
    - 7.3.9.2. Market Size and Forecast, By Material
    - 7.3.9.3. Market Size and Forecast, By End-use Industry

- 7.3.10. UK Heat Exchanger Market
  - 7.3.10.1. Market Size and Forecast, By Type
  - 7.3.10.2. Market Size and Forecast, By Material
  - 7.3.10.3. Market Size and Forecast, By End-use Industry
- 7.3.11. Rest Of Europe Heat Exchanger Market
  - 7.3.11.1. Market Size and Forecast, By Type
  - 7.3.11.2. Market Size and Forecast, By Material
  - 7.3.11.3. Market Size and Forecast, By End-use Industry
- 7.4. Asia-Pacific
  - 7.4.1. Key Market Trends and Opportunities
  - 7.4.2. Market Size and Forecast, By Type
  - 7.4.3. Market Size and Forecast, By Material
  - 7.4.4. Market Size and Forecast, By End-use Industry
  - 7.4.5. Market Size and Forecast, By Country
  - 7.4.6. China Heat Exchanger Market
    - 7.4.6.1. Market Size and Forecast, By Type
    - 7.4.6.2. Market Size and Forecast, By Material
    - 7.4.6.3. Market Size and Forecast, By End-use Industry
  - 7.4.7. Japan Heat Exchanger Market
    - 7.4.7.1. Market Size and Forecast, By Type
    - 7.4.7.2. Market Size and Forecast, By Material
    - 7.4.7.3. Market Size and Forecast, By End-use Industry
  - 7.4.8. India Heat Exchanger Market
    - 7.4.8.1. Market Size and Forecast, By Type
    - 7.4.8.2. Market Size and Forecast, By Material
    - 7.4.8.3. Market Size and Forecast, By End-use Industry
  - 7.4.9. South Korea Heat Exchanger Market
    - 7.4.9.1. Market Size and Forecast, By Type
    - 7.4.9.2. Market Size and Forecast, By Material
    - 7.4.9.3. Market Size and Forecast, By End-use Industry
  - 7.4.10. Australia Heat Exchanger Market
    - 7.4.10.1. Market Size and Forecast, By Type
    - 7.4.10.2. Market Size and Forecast, By Material
    - 7.4.10.3. Market Size and Forecast, By End-use Industry
  - 7.4.11. Rest of Asia-Pacific Heat Exchanger Market
    - 7.4.11.1. Market Size and Forecast, By Type
    - 7.4.11.2. Market Size and Forecast, By Material
    - 7.4.11.3. Market Size and Forecast, By End-use Industry
- 7.5. LAMEA

- 7.5.1. Key Market Trends and Opportunities
- 7.5.2. Market Size and Forecast, By Type
- 7.5.3. Market Size and Forecast, By Material
- 7.5.4. Market Size and Forecast, By End-use Industry
- 7.5.5. Market Size and Forecast, By Country
- 7.5.6. Brazil Heat Exchanger Market
  - 7.5.6.1. Market Size and Forecast, By Type
  - 7.5.6.2. Market Size and Forecast, By Material
  - 7.5.6.3. Market Size and Forecast, By End-use Industry
- 7.5.7. South Africa Heat Exchanger Market
  - 7.5.7.1. Market Size and Forecast, By Type
  - 7.5.7.2. Market Size and Forecast, By Material
  - 7.5.7.3. Market Size and Forecast, By End-use Industry
- 7.5.8. Saudi Arabia Heat Exchanger Market
  - 7.5.8.1. Market Size and Forecast, By Type
  - 7.5.8.2. Market Size and Forecast, By Material
  - 7.5.8.3. Market Size and Forecast, By End-use Industry
- 7.5.9. Rest of LAMEA Heat Exchanger Market
  - 7.5.9.1. Market Size and Forecast, By Type
  - 7.5.9.2. Market Size and Forecast, By Material
  - 7.5.9.3. Market Size and Forecast, By End-use Industry

## **CHAPTER 8: COMPETITIVE LANDSCAPE**

- 8.1. Introduction
- 8.2. Top Winning Strategies
- 8.3. Product Mapping Of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top Player Positioning, 2023

## **CHAPTER 9: COMPANY PROFILES**

- 9.1. Accessen Group
  - 9.1.1. Company Overview
  - 9.1.2. Key Executives
  - 9.1.3. Company Snapshot
  - 9.1.4. Operating Business Segments
  - 9.1.5. Product Portfolio

- 9.1.6. Business Performance
- 9.1.7. Key Strategic Moves and Developments
- 9.2. ALFA LAVAL
  - 9.2.1. Company Overview
  - 9.2.2. Key Executives
  - 9.2.3. Company Snapshot
  - 9.2.4. Operating Business Segments
  - 9.2.5. Product Portfolio
  - 9.2.6. Business Performance
  - 9.2.7. Key Strategic Moves and Developments
- 9.3. API Heat Transfer
  - 9.3.1. Company Overview
  - 9.3.2. Key Executives
  - 9.3.3. Company Snapshot
  - 9.3.4. Operating Business Segments
  - 9.3.5. Product Portfolio
  - 9.3.6. Business Performance
  - 9.3.7. Key Strategic Moves and Developments
- 9.4. Chart Industries
  - 9.4.1. Company Overview
  - 9.4.2. Key Executives
  - 9.4.3. Company Snapshot
  - 9.4.4. Operating Business Segments
  - 9.4.5. Product Portfolio
  - 9.4.6. Business Performance
  - 9.4.7. Key Strategic Moves and Developments
- 9.5. Danfoss A/S
  - 9.5.1. Company Overview
  - 9.5.2. Key Executives
  - 9.5.3. Company Snapshot
  - 9.5.4. Operating Business Segments
  - 9.5.5. Product Portfolio
  - 9.5.6. Business Performance
  - 9.5.7. Key Strategic Moves and Developments
- 9.6. Hisaka Works. Ltd
  - 9.6.1. Company Overview
  - 9.6.2. Key Executives
  - 9.6.3. Company Snapshot
  - 9.6.4. Operating Business Segments

- 9.6.5. Product Portfolio
- 9.6.6. Business Performance
- 9.6.7. Key Strategic Moves and Developments
- 9.7. Exchanger Industries Limited
  - 9.7.1. Company Overview
  - 9.7.2. Key Executives
  - 9.7.3. Company Snapshot
  - 9.7.4. Operating Business Segments
  - 9.7.5. Product Portfolio
  - 9.7.6. Business Performance
  - 9.7.7. Key Strategic Moves and Developments
- 9.8. Koch Industries, Inc
  - 9.8.1. Company Overview
  - 9.8.2. Key Executives
  - 9.8.3. Company Snapshot
  - 9.8.4. Operating Business Segments
  - 9.8.5. Product Portfolio
  - 9.8.6. Business Performance
  - 9.8.7. Key Strategic Moves and Developments
- 9.9. Thermofin Gmbh
  - 9.9.1. Company Overview
  - 9.9.2. Key Executives
  - 9.9.3. Company Snapshot
  - 9.9.4. Operating Business Segments
  - 9.9.5. Product Portfolio
  - 9.9.6. Business Performance
  - 9.9.7. Key Strategic Moves and Developments
- 9.10. Xylem
  - 9.10.1. Company Overview
  - 9.10.2. Key Executives
  - 9.10.3. Company Snapshot
  - 9.10.4. Operating Business Segments
  - 9.10.5. Product Portfolio
  - 9.10.6. Business Performance
  - 9.10.7. Key Strategic Moves and Developments



## I would like to order

Product name: Heat Exchanger Market By Type (Shell and Tube, Plate and Frame, Air-Cooled, Micro channel Heat Exchanger, Others) , By Material (Carbon Steel, Stainless Steel, Nickel, Others) By End-Use Industry (Chemical, Petrochemical, Oil and Gas, Food and Beverage, Power Generation, HVAC, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

Product link: <https://marketpublishers.com/r/HCAC1112834CEN.html>

Price: US\$ 2,601.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/HCAC1112834CEN.html>