

Industrial Heat Pump Market By System Type (Closed Loop, Open Cycle), By Source (Air, Water, Ground), By Capacity (Less Than 500 kW, 500 kW to 2 MW, 2 MW to 5 MW, More Than 5 MW), By End Use (Lumber Drying, Pulp and Paper Manufacturing, Petroleum Refining, Food and Beverages, Chemical, Utilities, District Heating, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The global industrial heat pump market was valued at \$9.5 billion in 2023, and is estimated to reach \$19.3 billion by 2033, growing at a CAGR of 7.4% from 2024 to 2033.

Well inspection services involve a comprehensive evaluation of oil and gas wells to ensure their integrity, safety, and efficiency. These services typically include visual inspections, non-destructive testing, pressure testing, and other diagnostic methods to detect potential issues such as corrosion, leaks, structural weaknesses, and other anomalies. Well inspection services are crucial for maintaining operational safety, preventing environmental contamination, and ensuring compliance with regulatory standards. These services help operators to identify and address problems early, thereby reducing downtime and operational costs while extending the life of the well.

The rise in the adoption of heat recovery systems is significantly driving the demand for industrial heat pumps, as industries seek to maximize energy efficiency and reduce operational costs. Heat recovery systems capture waste heat generated from industrial processes, which would otherwise be lost to the environment. By integrating industrial

heat pumps, this recovered heat transferred to other processes where thermal energy is required such as space heating, drying, or process heating. All these factors are expected to drive the demand for the industrial heat pump market during the forecast period.

However, the complexity of integrating industrial heat pumps into existing systems contributes to the high initial costs. Many industrial processes require customized solutions to ensure that the heat pump functions effectively within the specific operational environment. This need for tailored designs, along with the specialized engineering and maintenance expertise required that drives up the overall investment. In addition, in some cases, industries need to retrofit or upgrade their existing infrastructure to accommodate the new system, adding to the cost burden. These factors collectively slow down the pace at which industries adopt industrial heat pumps, particularly in markets where economic conditions or budget priorities make such large-scale investments challenging. All these factors hamper industrial heat pump market growth.

Technological innovations and ongoing product development create significant opportunities for the growth of the industrial heat pump market. As industries increasingly seek energy-efficient and sustainable solutions, advancements in heat pump technology have allowed for the development of more efficient, versatile, and cost-effective systems. Innovations such as improved refrigerants, higher operating temperature ranges, and enhanced system designs are enabling industrial heat pumps to perform effectively across a wider array of industrial applications, including sectors such as food processing, chemical manufacturing, and pulp and paper. All these factors are anticipated to offer new growth opportunities for the industrial heat pump market during the forecast period.

The industrial heat pump market is segmented into system type, source, capacity, end use, and region. On the basis of system type, market is divided into closed loop and open cycle. On the basis of source, the market is segmented into air, water, and ground. On the basis of capacity, the market is classified into less Than 500 kW, 500 kW to 2 MW, 2 MW - 5 MW, and more than 5 MW. On the basis of end use, the market is classified into Lumber drying, pulp and paper manufacturing, petroleum refining, food and beverages, chemical, utilities, district heating, and others. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

On the basis of system type, market is divided into closed loop and open cycle. The closed loop segment accounted for 68.4% of the industrial heat pump market share in

2023 and is expected to maintain its dominance during the forecast period. In a closed-loop industrial heat pump system consists of three main components such as evaporator, compressor, and condenser. The heat transfer fluid, often a refrigerant or water/glycol mixture, is circulated through these components. In the evaporator, the fluid absorbs heat from the surroundings, which causes it to evaporate. The compressor then compresses the vapor, increasing its pressure and temperature. This high-pressure, high-temperature vapor is directed to the condenser, where it releases its heat to the targeted process or space. As the fluid cools, it condenses back into a liquid, ready to return to the evaporator and repeat the cycle.

On the basis of source, the market is segmented into air, water, and ground. The air segment accounted for less than three-fifths of the industrial heat pump market share in 2023 and is expected to maintain its dominance during the forecast period. Industrial air source heat pumps (ASHP) are designed to extract heat from the ambient air and transfer it to a different medium, typically for heating or cooling purposes in industrial settings. These systems operate by using refrigerant to absorb heat from the outside air, even in colder temperatures, and then compressing the refrigerant to increase its temperature. The heat is subsequently transferred to the target medium such as water or air, which is then used for various industrial applications.

On the basis of capacity, the market is classified into less than 500 kW, 500 kW to 2 MW, 2 MW - 5 MW, and more than 5 MW. The less than 500 kW segment accounted for more than half of the industrial heat pump market share in 2023 and is expected to maintain its dominance during the forecast period. Industrial heat pumps with a capacity of less than 500 kW are essential components in various sectors such as manufacturing, food processing, and chemical industries. These systems are designed to provide efficient heating and cooling solutions, making them valuable for applications that require temperature control but on a smaller scale compared to larger industrial heat pumps.

On the basis of end use, the market is classified into Lumber drying, pulp and paper manufacturing, petroleum refining, food and beverages, chemical, utilities, district heating, and others. The food and beverages segment accounted for less than two-fifths of the industrial heat pump market share in 2023 and is expected to maintain its dominance during the forecast period. Industrial heat pumps are gaining traction in the food and beverage industry due to their energy-efficient heating and cooling capabilities, crucial for processes such as pasteurization, sterilization, drying, and refrigeration. These pumps transfer heat from low-temperature sources such as air, water, or process waste streams to higher temperature levels, which then be reused within the production

process. This allows food and beverage manufacturers to reduce reliance on fossil fuels, thereby cutting down on energy consumption and carbon emissions.

Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA. The Asia-Pacific region accounted for more than one-thirds of the industrial heat pump market share in 2023 and is expected to maintain its dominance during the forecast period. As energy prices continue to fluctuate, industries in the Asia-Pacific region are increasingly seeking cost-effective solutions to manage their energy expenditures. Industrial heat pumps offer a way to improve energy efficiency by recovering and upgrading waste heat or utilizing low-grade heat sources. This capability helps reduce dependence on expensive fossil fuels and lowers operational costs that makes heat pumps a preferable option for businesses aiming to mitigate the impact of rising energy prices.

Key players in the industrial heat pump market include STIEBEL ELTRON GmbH and Co. KG, Johnson Controls, Inc., Danfoss A/S, Robert Bosch, NIBE Industrier AB, Daikin Industries Ltd., Ingersoll-Rand Inc., Mitsubishi Electric Corporation, Carrier Global Corporation, and Emerson Electric Co.

Key findings of the study

On the basis of source type, the ground segment is anticipated to grow at the fastest CAGR of 8.6% during the forecast period.

On the basis of system type, the open cycle segment is anticipated to grow at the fastest CAGR of 7.7% during the forecast period.

On the basis of end use, the petroleum refining segment is anticipated to grow at the fastest CAGR of 8.9% during the forecast period.

On the basis of capacity, the more than 5 MW segment is anticipated to grow at the fastest CAGR of 8.1% during the forecast period.

Region-wise, Asia-Pacific has the highest share in 2022 in terms of revenue.

Key Benefits for Stakeholders

This report provides a quantitative analysis of the market segments, current

trends, estimations, and dynamics of the industrial heat pump market analysis from 2023 to 2033 to identify the prevailing industrial heat pump market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the industrial heat pump market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global industrial heat pump market trends, key players, market segments, application areas, and market growth strategies.

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End user preferences and pain points

Industry life cycle assessment, by region

Product Benchmarking / Product specification and applications

Supply Chain Analysis & Vendor Margins

Upcoming/New Entrant by Regions

Technology Trend Analysis

Go To Market Strategy

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

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

SWOT Analysis

Key Market Segments

By System Type

Closed Loop

Open Cycle

By Source

Air

Water

Ground

By Capacity

Less Than 500 kW

500 kW to 2 MW

2 MW to 5 MW

More Than 5 MW

By End Use

District Heating

Others

Lumber Drying

Pulp and Paper Manufacturing

Petroleum Refining

Food and Beverages

Chemical

Utilities

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

Italy

France

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Carrier Global Corporation

DAIKIN INDUSTRIES, Ltd.

Danfoss A/S

Emerson Electric Co.

Ingersoll Rand Inc.

Johnson Controls, Inc.

Mitsubishi Electric Corporation

NIBE Industrier AB

Robert Bosch GmbH

STIEBEL ELTRON GmbH and Co. KG

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 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 OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
 - 3.3.1. Moderate threat of substitutes
 - 3.3.2. Moderate intensity of rivalry
 - 3.3.3. Moderate bargaining power of buyers
 - 3.3.4. Moderate bargaining power of suppliers
 - 3.3.5. Moderate threat of new entrants
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.1.1. Rise in adoption of heat recovery systems
 - 3.4.1.2. Increase in focus on decarbonization
 - 3.4.2. Restraints
 - 3.4.2.1. High initial investment cost
 - 3.4.3. Opportunities
 - 3.4.3.1. Technological innovations and product development
- 3.5. Value Chain Analysis
- 3.6. Regulatory Guidelines

CHAPTER 4: INDUSTRIAL HEAT PUMP MARKET, BY SYSTEM TYPE

4.1. Overview

4.1.1. Market size and forecast

4.2. Closed Loop

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. Open Cycle

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

CHAPTER 5: INDUSTRIAL HEAT PUMP MARKET, BY SOURCE

5.1. Overview

5.1.1. Market size and forecast

5.2. Air

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. Water

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. Ground

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

CHAPTER 6: INDUSTRIAL HEAT PUMP MARKET, BY CAPACITY

6.1. Overview

6.1.1. Market size and forecast

6.2. Less Than 500 kW

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. 500 kW to 2 MW

- 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. 2 MW to 5 MW
 - 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. More Than 5 MW
 - 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

CHAPTER 7: INDUSTRIAL HEAT PUMP MARKET, BY END USE

- 7.1. Overview
 - 7.1.1. Market size and forecast
- 7.2. Lumber Drying
 - 7.2.1. Key market trends, growth factors and opportunities
 - 7.2.2. Market size and forecast, by region
 - 7.2.3. Market share analysis by country
- 7.3. Pulp and Paper Manufacturing
 - 7.3.1. Key market trends, growth factors and opportunities
 - 7.3.2. Market size and forecast, by region
 - 7.3.3. Market share analysis by country
- 7.4. Petroleum Refining
 - 7.4.1. Key market trends, growth factors and opportunities
 - 7.4.2. Market size and forecast, by region
 - 7.4.3. Market share analysis by country
- 7.5. Food and Beverages
 - 7.5.1. Key market trends, growth factors and opportunities
 - 7.5.2. Market size and forecast, by region
 - 7.5.3. Market share analysis by country
- 7.6. Chemical
 - 7.6.1. Key market trends, growth factors and opportunities
 - 7.6.2. Market size and forecast, by region
 - 7.6.3. Market share analysis by country
- 7.7. Utilities
 - 7.7.1. Key market trends, growth factors and opportunities
 - 7.7.2. Market size and forecast, by region

- 7.7.3. Market share analysis by country
- 7.8. District Heating
 - 7.8.1. Key market trends, growth factors and opportunities
 - 7.8.2. Market size and forecast, by region
 - 7.8.3. Market share analysis by country
- 7.9. Others
 - 7.9.1. Key market trends, growth factors and opportunities
 - 7.9.2. Market size and forecast, by region
 - 7.9.3. Market share analysis by country

CHAPTER 8: INDUSTRIAL HEAT PUMP MARKET, BY REGION

- 8.1. Overview
 - 8.1.1. Market size and forecast By Region
- 8.2. North America
 - 8.2.1. Key market trends, growth factors and opportunities
 - 8.2.2. Market size and forecast, by System Type
 - 8.2.3. Market size and forecast, by Source
 - 8.2.4. Market size and forecast, by Capacity
 - 8.2.5. Market size and forecast, by End Use
 - 8.2.6. Market size and forecast, by country
 - 8.2.6.1. U.S.
 - 8.2.6.1.1. Market size and forecast, by System Type
 - 8.2.6.1.2. Market size and forecast, by Source
 - 8.2.6.1.3. Market size and forecast, by Capacity
 - 8.2.6.1.4. Market size and forecast, by End Use
 - 8.2.6.2. Canada
 - 8.2.6.2.1. Market size and forecast, by System Type
 - 8.2.6.2.2. Market size and forecast, by Source
 - 8.2.6.2.3. Market size and forecast, by Capacity
 - 8.2.6.2.4. Market size and forecast, by End Use
 - 8.2.6.3. Mexico
 - 8.2.6.3.1. Market size and forecast, by System Type
 - 8.2.6.3.2. Market size and forecast, by Source
 - 8.2.6.3.3. Market size and forecast, by Capacity
 - 8.2.6.3.4. Market size and forecast, by End Use
- 8.3. Europe
 - 8.3.1. Key market trends, growth factors and opportunities
 - 8.3.2. Market size and forecast, by System Type

8.3.3. Market size and forecast, by Source

8.3.4. Market size and forecast, by Capacity

8.3.5. Market size and forecast, by End Use

8.3.6. Market size and forecast, by country

8.3.6.1. Germany

8.3.6.1.1. Market size and forecast, by System Type

8.3.6.1.2. Market size and forecast, by Source

8.3.6.1.3. Market size and forecast, by Capacity

8.3.6.1.4. Market size and forecast, by End Use

8.3.6.2. Italy

8.3.6.2.1. Market size and forecast, by System Type

8.3.6.2.2. Market size and forecast, by Source

8.3.6.2.3. Market size and forecast, by Capacity

8.3.6.2.4. Market size and forecast, by End Use

8.3.6.3. France

8.3.6.3.1. Market size and forecast, by System Type

8.3.6.3.2. Market size and forecast, by Source

8.3.6.3.3. Market size and forecast, by Capacity

8.3.6.3.4. Market size and forecast, by End Use

8.3.6.4. Spain

8.3.6.4.1. Market size and forecast, by System Type

8.3.6.4.2. Market size and forecast, by Source

8.3.6.4.3. Market size and forecast, by Capacity

8.3.6.4.4. Market size and forecast, by End Use

8.3.6.5. UK

8.3.6.5.1. Market size and forecast, by System Type

8.3.6.5.2. Market size and forecast, by Source

8.3.6.5.3. Market size and forecast, by Capacity

8.3.6.5.4. Market size and forecast, by End Use

8.3.6.6. Rest of Europe

8.3.6.6.1. Market size and forecast, by System Type

8.3.6.6.2. Market size and forecast, by Source

8.3.6.6.3. Market size and forecast, by Capacity

8.3.6.6.4. Market size and forecast, by End Use

8.4. Asia-Pacific

8.4.1. Key market trends, growth factors and opportunities

8.4.2. Market size and forecast, by System Type

8.4.3. Market size and forecast, by Source

8.4.4. Market size and forecast, by Capacity

8.4.5. Market size and forecast, by End Use

8.4.6. Market size and forecast, by country

8.4.6.1. China

8.4.6.1.1. Market size and forecast, by System Type

8.4.6.1.2. Market size and forecast, by Source

8.4.6.1.3. Market size and forecast, by Capacity

8.4.6.1.4. Market size and forecast, by End Use

8.4.6.2. Japan

8.4.6.2.1. Market size and forecast, by System Type

8.4.6.2.2. Market size and forecast, by Source

8.4.6.2.3. Market size and forecast, by Capacity

8.4.6.2.4. Market size and forecast, by End Use

8.4.6.3. India

8.4.6.3.1. Market size and forecast, by System Type

8.4.6.3.2. Market size and forecast, by Source

8.4.6.3.3. Market size and forecast, by Capacity

8.4.6.3.4. Market size and forecast, by End Use

8.4.6.4. South Korea

8.4.6.4.1. Market size and forecast, by System Type

8.4.6.4.2. Market size and forecast, by Source

8.4.6.4.3. Market size and forecast, by Capacity

8.4.6.4.4. Market size and forecast, by End Use

8.4.6.5. Australia

8.4.6.5.1. Market size and forecast, by System Type

8.4.6.5.2. Market size and forecast, by Source

8.4.6.5.3. Market size and forecast, by Capacity

8.4.6.5.4. Market size and forecast, by End Use

8.4.6.6. Rest of Asia-Pacific

8.4.6.6.1. Market size and forecast, by System Type

8.4.6.6.2. Market size and forecast, by Source

8.4.6.6.3. Market size and forecast, by Capacity

8.4.6.6.4. Market size and forecast, by End Use

8.5. LAMEA

8.5.1. Key market trends, growth factors and opportunities

8.5.2. Market size and forecast, by System Type

8.5.3. Market size and forecast, by Source

8.5.4. Market size and forecast, by Capacity

8.5.5. Market size and forecast, by End Use

8.5.6. Market size and forecast, by country

8.5.6.1. Brazil

8.5.6.1.1. Market size and forecast, by System Type

8.5.6.1.2. Market size and forecast, by Source

8.5.6.1.3. Market size and forecast, by Capacity

8.5.6.1.4. Market size and forecast, by End Use

8.5.6.2. Saudi Arabia

8.5.6.2.1. Market size and forecast, by System Type

8.5.6.2.2. Market size and forecast, by Source

8.5.6.2.3. Market size and forecast, by Capacity

8.5.6.2.4. Market size and forecast, by End Use

8.5.6.3. South Africa

8.5.6.3.1. Market size and forecast, by System Type

8.5.6.3.2. Market size and forecast, by Source

8.5.6.3.3. Market size and forecast, by Capacity

8.5.6.3.4. Market size and forecast, by End Use

8.5.6.4. Rest of LAMEA

8.5.6.4.1. Market size and forecast, by System Type

8.5.6.4.2. Market size and forecast, by Source

8.5.6.4.3. Market size and forecast, by Capacity

8.5.6.4.4. Market size and forecast, by End Use

CHAPTER 9: COMPETITIVE LANDSCAPE

9.1. Introduction

9.2. Top winning strategies

9.3. Product mapping of top 10 player

9.4. Competitive dashboard

9.5. Competitive heatmap

9.6. Top player positioning, 2023

CHAPTER 10: COMPANY PROFILES

10.1. STIEBEL ELTRON GmbH and Co. KG

10.1.1. Company overview

10.1.2. Key executives

10.1.3. Company snapshot

10.1.4. Operating business segments

10.1.5. Product portfolio

10.2. Johnson Controls, Inc.

- 10.2.1. Company overview
- 10.2.2. Key executives
- 10.2.3. Company snapshot
- 10.2.4. Operating business segments
- 10.2.5. Product portfolio
- 10.2.6. Business performance
- 10.2.7. Key strategic moves and developments
- 10.3. Danfoss A/S
 - 10.3.1. Company overview
 - 10.3.2. Key executives
 - 10.3.3. Company snapshot
 - 10.3.4. Operating business segments
 - 10.3.5. Product portfolio
 - 10.3.6. Business performance
 - 10.3.7. Key strategic moves and developments
- 10.4. Robert Bosch GmbH
 - 10.4.1. Company overview
 - 10.4.2. Key executives
 - 10.4.3. Company snapshot
 - 10.4.4. Operating business segments
 - 10.4.5. Product portfolio
 - 10.4.6. Business performance
 - 10.4.7. Key strategic moves and developments
- 10.5. NIBE Industrier AB
 - 10.5.1. Company overview
 - 10.5.2. Key executives
 - 10.5.3. Company snapshot
 - 10.5.4. Operating business segments
 - 10.5.5. Product portfolio
 - 10.5.6. Business performance
- 10.6. DAIKIN INDUSTRIES, Ltd.
 - 10.6.1. Company overview
 - 10.6.2. Key executives
 - 10.6.3. Company snapshot
 - 10.6.4. Operating business segments
 - 10.6.5. Product portfolio
 - 10.6.6. Business performance
 - 10.6.7. Key strategic moves and developments
- 10.7. Ingersoll Rand Inc.

- 10.7.1. Company overview
- 10.7.2. Key executives
- 10.7.3. Company snapshot
- 10.7.4. Operating business segments
- 10.7.5. Product portfolio
- 10.7.6. Business performance
- 10.8. Mitsubishi Electric Corporation
 - 10.8.1. Company overview
 - 10.8.2. Key executives
 - 10.8.3. Company snapshot
 - 10.8.4. Operating business segments
 - 10.8.5. Product portfolio
 - 10.8.6. Business performance
 - 10.8.7. Key strategic moves and developments
- 10.9. Carrier Global Corporation
 - 10.9.1. Company overview
 - 10.9.2. Key executives
 - 10.9.3. Company snapshot
 - 10.9.4. Operating business segments
 - 10.9.5. Product portfolio
 - 10.9.6. Business performance
- 10.10. Emerson Electric Co.
 - 10.10.1. Company overview
 - 10.10.2. Key executives
 - 10.10.3. Company snapshot
 - 10.10.4. Operating business segments
 - 10.10.5. Product portfolio
 - 10.10.6. Business performance

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