

# Global Printed Circuit Heat Exchangers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Printed Circuit Heat Exchangers market size is expected to reach \$ 437 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

Printed Circuit Heat Exchangers (PCHEs) are ultra-compact heat exchangers built from stacks of metal plates—most commonly stainless steel, nickel alloys, or titanium—that have fluid microchannels chemically etched or machined into their surfaces and then permanently joined by diffusion bonding to form a single, solid block. This construction creates very high surface-area-to-volume ratios and short heat-transfer paths, enabling high thermal effectiveness in a much smaller footprint than many traditional shell-and-tube designs. Because there are no gaskets and the bonded core behaves like a monolithic piece of metal, PCHEs can tolerate very high pressures and elevated temperatures, making them attractive for demanding duties such as supercritical CO<sub>2</sub> power cycles, LNG and cryogenic processes, hydrogen and syngas applications, and compact offshore or subsea systems where space and weight are constrained. The price of a PCHE ranges from tens of thousands to millions of dollars, with annual sales of approximately one thousand units.

Printed circuit heat exchangers are supplied through an upstream chain of specialty metals (stainless, duplex, nickel alloys and sometimes titanium), precision plate processing and channel fabrication (often photochemical etching or high-accuracy machining), diffusion-bonding furnace capacity and process control, and then header/manifold fabrication, high-integrity welding, and stringent inspection and testing such as hydrotest, helium leak testing, and NDE, typically coordinated by the PCHE OEM and qualified subcontractors; downstream they are bought mainly by EPCs, integrators, and end users and integrated into engineered modules like cold boxes, compressor and hydrogen refueling skids, offshore process packages, and recuperator/thermal-system modules for duties where compactness and high

pressure/temperature performance matter, including LNG and other cryogenic gas processing, hydrogen cooling and compression, supercritical CO<sub>2</sub> and advanced power cycles, and compact oil and gas processing.

Commercially, PCHE adoption is being pulled by the same forces pushing higher efficiency and smaller equipment footprints, namely decarbonization-linked projects, high-pressure hydrogen infrastructure, compact offshore processing, and high-performance power and thermal systems, where the value proposition is highest. At the same time, purchasing behavior remains conservative because PCHEs are often custom-engineered, supplier capacity is concentrated, qualification and documentation burdens can be heavy, and buyers worry about fouling, cleanability, inspection access, and repairability compared with traditional exchangers. The market is therefore bifurcating into standardized, repeatable module families where volumes and learning curves can reduce cost and lead time, and bespoke high-spec projects where engineering, codes, and risk management dominate supplier selection and pricing. This report studies the global Printed Circuit Heat Exchangers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Printed Circuit Heat Exchangers 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 Printed Circuit Heat Exchangers that contribute to its increasing demand across many markets.

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

Global Printed Circuit Heat Exchangers total production and demand, 2021-2032, (Units)

Global Printed Circuit Heat Exchangers total production value, 2021-2032, (USD Million)

Global Printed Circuit Heat Exchangers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Printed Circuit Heat Exchangers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Printed Circuit Heat Exchangers domestic production, consumption, key domestic manufacturers and share

Global Printed Circuit Heat Exchangers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Printed Circuit Heat Exchangers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Printed Circuit Heat Exchangers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Printed Circuit Heat Exchangers 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 Alfa Laval, Parker, Sumitomo Precision Products, Kobe Steel, Kelvion, Nexson Group, Lanzhou LS Heavy Equipment, Hangzhou Shenshi Energy Conservation, Doosan Enerbility, CompRex, 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 Printed Circuit Heat Exchangers market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Printed Circuit Heat Exchangers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Printed Circuit Heat Exchangers Market, Segmentation by Type:

Below 90 MPa

90-120 MPa

Above 120 MPa

Global Printed Circuit Heat Exchangers Market, Segmentation by Maximum Design Temperature:

Below 500°C

500°C-800°C

Above 800°C

Global Printed Circuit Heat Exchangers Market, Segmentation by Material:

Stainless Steel

Nickel-based Alloys

Titanium Alloys

Global Printed Circuit Heat Exchangers Market, Segmentation by Application:

Oil & Gas

Marine

Power Generation

Others

**Companies Profiled:**

Alfa Laval

Parker

Sumitomo Precision Products

Kobe Steel

Kelvion

Nexson Group

Lanzhou LS Heavy Equipment

Hangzhou Shenshi Energy Conservation

Doosan Enerbility

CompRex

Nexson

Tempco

Shanghai Heat Transfer Equipment

### **Key Questions Answered:**

1. How big is the global Printed Circuit Heat Exchangers market?
2. What is the demand of the global Printed Circuit Heat Exchangers market?
3. What is the year over year growth of the global Printed Circuit Heat Exchangers market?
4. What is the production and production value of the global Printed Circuit Heat Exchangers market?
5. Who are the key producers in the global Printed Circuit Heat Exchangers market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Printed Circuit Heat Exchangers Introduction
- 1.2 World Printed Circuit Heat Exchangers Supply & Forecast
  - 1.2.1 World Printed Circuit Heat Exchangers Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Printed Circuit Heat Exchangers Production (2021-2032)
  - 1.2.3 World Printed Circuit Heat Exchangers Pricing Trends (2021-2032)
- 1.3 World Printed Circuit Heat Exchangers Production by Region (Based on Production Site)
  - 1.3.1 World Printed Circuit Heat Exchangers Production Value by Region (2021-2032)
  - 1.3.2 World Printed Circuit Heat Exchangers Production by Region (2021-2032)
  - 1.3.3 World Printed Circuit Heat Exchangers Average Price by Region (2021-2032)
  - 1.3.4 North America Printed Circuit Heat Exchangers Production (2021-2032)
  - 1.3.5 Europe Printed Circuit Heat Exchangers Production (2021-2032)
  - 1.3.6 China Printed Circuit Heat Exchangers Production (2021-2032)
  - 1.3.7 Japan Printed Circuit Heat Exchangers Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Printed Circuit Heat Exchangers Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Printed Circuit Heat Exchangers Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Printed Circuit Heat Exchangers Demand (2021-2032)
- 2.2 World Printed Circuit Heat Exchangers Consumption by Region
  - 2.2.1 World Printed Circuit Heat Exchangers Consumption by Region (2021-2026)
  - 2.2.2 World Printed Circuit Heat Exchangers Consumption Forecast by Region (2027-2032)
- 2.3 United States Printed Circuit Heat Exchangers Consumption (2021-2032)
- 2.4 China Printed Circuit Heat Exchangers Consumption (2021-2032)
- 2.5 Europe Printed Circuit Heat Exchangers Consumption (2021-2032)
- 2.6 Japan Printed Circuit Heat Exchangers Consumption (2021-2032)
- 2.7 South Korea Printed Circuit Heat Exchangers Consumption (2021-2032)
- 2.8 ASEAN Printed Circuit Heat Exchangers Consumption (2021-2032)
- 2.9 India Printed Circuit Heat Exchangers Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Printed Circuit Heat Exchangers Production Value by Manufacturer (2021-2026)
- 3.2 World Printed Circuit Heat Exchangers Production by Manufacturer (2021-2026)
- 3.3 World Printed Circuit Heat Exchangers Average Price by Manufacturer (2021-2026)
- 3.4 Printed Circuit Heat Exchangers Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Printed Circuit Heat Exchangers Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Printed Circuit Heat Exchangers in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Printed Circuit Heat Exchangers in 2025
- 3.6 Printed Circuit Heat Exchangers Market: Overall Company Footprint Analysis
  - 3.6.1 Printed Circuit Heat Exchangers Market: Region Footprint
  - 3.6.2 Printed Circuit Heat Exchangers Market: Company Product Type Footprint
  - 3.6.3 Printed Circuit Heat Exchangers Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Printed Circuit Heat Exchangers Production Value Comparison
  - 4.1.1 United States VS China: Printed Circuit Heat Exchangers Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Printed Circuit Heat Exchangers Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Printed Circuit Heat Exchangers Production Comparison
  - 4.2.1 United States VS China: Printed Circuit Heat Exchangers Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Printed Circuit Heat Exchangers Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Printed Circuit Heat Exchangers Consumption Comparison
  - 4.3.1 United States VS China: Printed Circuit Heat Exchangers Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Printed Circuit Heat Exchangers Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based Printed Circuit Heat Exchangers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Printed Circuit Heat Exchangers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Printed Circuit Heat Exchangers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Printed Circuit Heat Exchangers Production (2021-2026)

#### 4.5 China Based Printed Circuit Heat Exchangers Manufacturers and Market Share

4.5.1 China Based Printed Circuit Heat Exchangers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Printed Circuit Heat Exchangers Production Value (2021-2026)

4.5.3 China Based Manufacturers Printed Circuit Heat Exchangers Production (2021-2026)

#### 4.6 Rest of World Based Printed Circuit Heat Exchangers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Printed Circuit Heat Exchangers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production (2021-2026)

### **5 MARKET ANALYSIS BY TYPE**

#### 5.1 World Printed Circuit Heat Exchangers Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 Below 90 MPa

5.2.2 90-120 MPa

5.2.3 Above 120 MPa

#### 5.3 Market Segment by Type

5.3.1 World Printed Circuit Heat Exchangers Production by Type (2021-2032)

5.3.2 World Printed Circuit Heat Exchangers Production Value by Type (2021-2032)

5.3.3 World Printed Circuit Heat Exchangers Average Price by Type (2021-2032)

### **6 MARKET ANALYSIS BY MAXIMUM DESIGN TEMPERATURE**

6.1 World Printed Circuit Heat Exchangers Market Size Overview by Maximum Design Temperature: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Maximum Design Temperature

6.2.1 Below 500°C

6.2.2 500°C-800°C

6.2.3 Above 800°C

6.3 Market Segment by Maximum Design Temperature

6.3.1 World Printed Circuit Heat Exchangers Production by Maximum Design Temperature (2021-2032)

6.3.2 World Printed Circuit Heat Exchangers Production Value by Maximum Design Temperature (2021-2032)

6.3.3 World Printed Circuit Heat Exchangers Average Price by Maximum Design Temperature (2021-2032)

## **7 MARKET ANALYSIS BY MATERIAL**

7.1 World Printed Circuit Heat Exchangers Market Size Overview by Material: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Material

7.2.1 Stainless Steel

7.2.2 Nickel-based Alloys

7.2.3 Titanium Alloys

7.3 Market Segment by Material

7.3.1 World Printed Circuit Heat Exchangers Production by Material (2021-2032)

7.3.2 World Printed Circuit Heat Exchangers Production Value by Material (2021-2032)

7.3.3 World Printed Circuit Heat Exchangers Average Price by Material (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Printed Circuit Heat Exchangers Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Oil & Gas

8.2.2 Marine

8.2.3 Power Generation

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Printed Circuit Heat Exchangers Production by Application (2021-2032)

8.3.2 World Printed Circuit Heat Exchangers Production Value by Application

(2021-2032)

8.3.3 World Printed Circuit Heat Exchangers Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

### 9.1 Alfa Laval

9.1.1 Alfa Laval Details

9.1.2 Alfa Laval Major Business

9.1.3 Alfa Laval Printed Circuit Heat Exchangers Product and Services

9.1.4 Alfa Laval Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Alfa Laval Recent Developments/Updates

9.1.6 Alfa Laval Competitive Strengths & Weaknesses

### 9.2 Parker

9.2.1 Parker Details

9.2.2 Parker Major Business

9.2.3 Parker Printed Circuit Heat Exchangers Product and Services

9.2.4 Parker Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Parker Recent Developments/Updates

9.2.6 Parker Competitive Strengths & Weaknesses

### 9.3 Sumitomo Precision Products

9.3.1 Sumitomo Precision Products Details

9.3.2 Sumitomo Precision Products Major Business

9.3.3 Sumitomo Precision Products Printed Circuit Heat Exchangers Product and Services

9.3.4 Sumitomo Precision Products Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Sumitomo Precision Products Recent Developments/Updates

9.3.6 Sumitomo Precision Products Competitive Strengths & Weaknesses

### 9.4 Kobe Steel

9.4.1 Kobe Steel Details

9.4.2 Kobe Steel Major Business

9.4.3 Kobe Steel Printed Circuit Heat Exchangers Product and Services

9.4.4 Kobe Steel Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kobe Steel Recent Developments/Updates

9.4.6 Kobe Steel Competitive Strengths & Weaknesses

### 9.5 Kelvion

- 9.5.1 Kelvion Details
- 9.5.2 Kelvion Major Business
- 9.5.3 Kelvion Printed Circuit Heat Exchangers Product and Services
- 9.5.4 Kelvion Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Kelvion Recent Developments/Updates
- 9.5.6 Kelvion Competitive Strengths & Weaknesses
- 9.6 Nexson Group
  - 9.6.1 Nexson Group Details
  - 9.6.2 Nexson Group Major Business
  - 9.6.3 Nexson Group Printed Circuit Heat Exchangers Product and Services
  - 9.6.4 Nexson Group Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Nexson Group Recent Developments/Updates
  - 9.6.6 Nexson Group Competitive Strengths & Weaknesses
- 9.7 Lanzhou LS Heavy Equipment
  - 9.7.1 Lanzhou LS Heavy Equipment Details
  - 9.7.2 Lanzhou LS Heavy Equipment Major Business
  - 9.7.3 Lanzhou LS Heavy Equipment Printed Circuit Heat Exchangers Product and Services
  - 9.7.4 Lanzhou LS Heavy Equipment Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Lanzhou LS Heavy Equipment Recent Developments/Updates
  - 9.7.6 Lanzhou LS Heavy Equipment Competitive Strengths & Weaknesses
- 9.8 Hangzhou Shenshi Energy Conservation
  - 9.8.1 Hangzhou Shenshi Energy Conservation Details
  - 9.8.2 Hangzhou Shenshi Energy Conservation Major Business
  - 9.8.3 Hangzhou Shenshi Energy Conservation Printed Circuit Heat Exchangers Product and Services
  - 9.8.4 Hangzhou Shenshi Energy Conservation Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Hangzhou Shenshi Energy Conservation Recent Developments/Updates
  - 9.8.6 Hangzhou Shenshi Energy Conservation Competitive Strengths & Weaknesses
- 9.9 Doosan Enerbility
  - 9.9.1 Doosan Enerbility Details
  - 9.9.2 Doosan Enerbility Major Business
  - 9.9.3 Doosan Enerbility Printed Circuit Heat Exchangers Product and Services
  - 9.9.4 Doosan Enerbility Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.9.5 Doosan Enerbility Recent Developments/Updates
- 9.9.6 Doosan Enerbility Competitive Strengths & Weaknesses
- 9.10 CompRex
  - 9.10.1 CompRex Details
  - 9.10.2 CompRex Major Business
  - 9.10.3 CompRex Printed Circuit Heat Exchangers Product and Services
  - 9.10.4 CompRex Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 CompRex Recent Developments/Updates
  - 9.10.6 CompRex Competitive Strengths & Weaknesses
- 9.11 Nexson
  - 9.11.1 Nexson Details
  - 9.11.2 Nexson Major Business
  - 9.11.3 Nexson Printed Circuit Heat Exchangers Product and Services
  - 9.11.4 Nexson Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Nexson Recent Developments/Updates
  - 9.11.6 Nexson Competitive Strengths & Weaknesses
- 9.12 Tempco
  - 9.12.1 Tempco Details
  - 9.12.2 Tempco Major Business
  - 9.12.3 Tempco Printed Circuit Heat Exchangers Product and Services
  - 9.12.4 Tempco Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Tempco Recent Developments/Updates
  - 9.12.6 Tempco Competitive Strengths & Weaknesses
- 9.13 Shanghai Heat Transfer Equipment
  - 9.13.1 Shanghai Heat Transfer Equipment Details
  - 9.13.2 Shanghai Heat Transfer Equipment Major Business
  - 9.13.3 Shanghai Heat Transfer Equipment Printed Circuit Heat Exchangers Product and Services
  - 9.13.4 Shanghai Heat Transfer Equipment Printed Circuit Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Shanghai Heat Transfer Equipment Recent Developments/Updates
  - 9.13.6 Shanghai Heat Transfer Equipment Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

### **10.1 Printed Circuit Heat Exchangers Industry Chain**

## 10.2 Printed Circuit Heat Exchangers Upstream Analysis

### 10.2.1 Printed Circuit Heat Exchangers Core Raw Materials

### 10.2.2 Main Manufacturers of Printed Circuit Heat Exchangers Core Raw Materials

## 10.3 Midstream Analysis

## 10.4 Downstream Analysis

## 10.5 Printed Circuit Heat Exchangers Production Mode

## 10.6 Printed Circuit Heat Exchangers Procurement Model

## 10.7 Printed Circuit Heat Exchangers Industry Sales Model and Sales Channels

### 10.7.1 Printed Circuit Heat Exchangers Sales Model

### 10.7.2 Printed Circuit Heat Exchangers Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

### 12.1 Methodology

### 12.2 Research Process and Data Source

### 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Printed Circuit Heat Exchangers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Printed Circuit Heat Exchangers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Printed Circuit Heat Exchangers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Printed Circuit Heat Exchangers Production Value Market Share by Region (2021-2026)

Table 5. World Printed Circuit Heat Exchangers Production Value Market Share by Region (2027-2032)

Table 6. World Printed Circuit Heat Exchangers Production by Region (2021-2026) & (Units)

Table 7. World Printed Circuit Heat Exchangers Production by Region (2027-2032) & (Units)

Table 8. World Printed Circuit Heat Exchangers Production Market Share by Region (2021-2026)

Table 9. World Printed Circuit Heat Exchangers Production Market Share by Region (2027-2032)

Table 10. World Printed Circuit Heat Exchangers Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Printed Circuit Heat Exchangers Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Printed Circuit Heat Exchangers Major Market Trends

Table 13. World Printed Circuit Heat Exchangers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Printed Circuit Heat Exchangers Consumption by Region (2021-2026) & (Units)

Table 15. World Printed Circuit Heat Exchangers Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Printed Circuit Heat Exchangers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Printed Circuit Heat Exchangers Producers in 2025

Table 18. World Printed Circuit Heat Exchangers Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Printed Circuit Heat Exchangers Producers in 2025

Table 20. World Printed Circuit Heat Exchangers Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Printed Circuit Heat Exchangers Company Evaluation Quadrant

Table 22. World Printed Circuit Heat Exchangers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Printed Circuit Heat Exchangers Production Site of Key Manufacturer

Table 24. Printed Circuit Heat Exchangers Market: Company Product Type Footprint

Table 25. Printed Circuit Heat Exchangers Market: Company Product Application Footprint

Table 26. Printed Circuit Heat Exchangers Competitive Factors

Table 27. Printed Circuit Heat Exchangers New Entrant and Capacity Expansion Plans

Table 28. Printed Circuit Heat Exchangers Mergers & Acquisitions Activity

Table 29. United States VS China Printed Circuit Heat Exchangers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Printed Circuit Heat Exchangers Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Printed Circuit Heat Exchangers Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Printed Circuit Heat Exchangers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Printed Circuit Heat Exchangers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Printed Circuit Heat Exchangers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Printed Circuit Heat Exchangers Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Printed Circuit Heat Exchangers Production Market Share (2021-2026)

Table 37. China Based Printed Circuit Heat Exchangers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Printed Circuit Heat Exchangers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Printed Circuit Heat Exchangers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Printed Circuit Heat Exchangers Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Printed Circuit Heat Exchangers Production Market Share (2021-2026)

Table 42. Rest of World Based Printed Circuit Heat Exchangers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production Market Share (2021-2026)

Table 47. World Printed Circuit Heat Exchangers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Printed Circuit Heat Exchangers Production by Type (2021-2026) & (Units)

Table 49. World Printed Circuit Heat Exchangers Production by Type (2027-2032) & (Units)

Table 50. World Printed Circuit Heat Exchangers Production Value by Type (2021-2026) & (USD Million)

Table 51. World Printed Circuit Heat Exchangers Production Value by Type (2027-2032) & (USD Million)

Table 52. World Printed Circuit Heat Exchangers Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Printed Circuit Heat Exchangers Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Printed Circuit Heat Exchangers Production Value by Maximum Design Temperature, (USD Million), 2021 & 2025 & 2032

Table 55. World Printed Circuit Heat Exchangers Production by Maximum Design Temperature (2021-2026) & (Units)

Table 56. World Printed Circuit Heat Exchangers Production by Maximum Design Temperature (2027-2032) & (Units)

Table 57. World Printed Circuit Heat Exchangers Production Value by Maximum Design Temperature (2021-2026) & (USD Million)

Table 58. World Printed Circuit Heat Exchangers Production Value by Maximum Design Temperature (2027-2032) & (USD Million)

Table 59. World Printed Circuit Heat Exchangers Average Price by Maximum Design Temperature (2021-2026) & (K US\$/Unit)

Table 60. World Printed Circuit Heat Exchangers Average Price by Maximum Design

Temperature (2027-2032) & (K US\$/Unit)

Table 61. World Printed Circuit Heat Exchangers Production Value by Material, (USD Million), 2021 & 2025 & 2032

Table 62. World Printed Circuit Heat Exchangers Production by Material (2021-2026) & (Units)

Table 63. World Printed Circuit Heat Exchangers Production by Material (2027-2032) & (Units)

Table 64. World Printed Circuit Heat Exchangers Production Value by Material (2021-2026) & (USD Million)

Table 65. World Printed Circuit Heat Exchangers Production Value by Material (2027-2032) & (USD Million)

Table 66. World Printed Circuit Heat Exchangers Average Price by Material (2021-2026) & (K US\$/Unit)

Table 67. World Printed Circuit Heat Exchangers Average Price by Material (2027-2032) & (K US\$/Unit)

Table 68. World Printed Circuit Heat Exchangers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Printed Circuit Heat Exchangers Production by Application (2021-2026) & (Units)

Table 70. World Printed Circuit Heat Exchangers Production by Application (2027-2032) & (Units)

Table 71. World Printed Circuit Heat Exchangers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Printed Circuit Heat Exchangers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Printed Circuit Heat Exchangers Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Printed Circuit Heat Exchangers Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Alfa Laval Basic Information, Manufacturing Base and Competitors

Table 76. Alfa Laval Major Business

Table 77. Alfa Laval Printed Circuit Heat Exchangers Product and Services

Table 78. Alfa Laval Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Alfa Laval Recent Developments/Updates

Table 80. Alfa Laval Competitive Strengths & Weaknesses

Table 81. Parker Basic Information, Manufacturing Base and Competitors

Table 82. Parker Major Business

Table 83. Parker Printed Circuit Heat Exchangers Product and Services

Table 84. Parker Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Parker Recent Developments/Updates

Table 86. Parker Competitive Strengths & Weaknesses

Table 87. Sumitomo Precision Products Basic Information, Manufacturing Base and Competitors

Table 88. Sumitomo Precision Products Major Business

Table 89. Sumitomo Precision Products Printed Circuit Heat Exchangers Product and Services

Table 90. Sumitomo Precision Products Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Sumitomo Precision Products Recent Developments/Updates

Table 92. Sumitomo Precision Products Competitive Strengths & Weaknesses

Table 93. Kobe Steel Basic Information, Manufacturing Base and Competitors

Table 94. Kobe Steel Major Business

Table 95. Kobe Steel Printed Circuit Heat Exchangers Product and Services

Table 96. Kobe Steel Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Kobe Steel Recent Developments/Updates

Table 98. Kobe Steel Competitive Strengths & Weaknesses

Table 99. Kelvion Basic Information, Manufacturing Base and Competitors

Table 100. Kelvion Major Business

Table 101. Kelvion Printed Circuit Heat Exchangers Product and Services

Table 102. Kelvion Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Kelvion Recent Developments/Updates

Table 104. Kelvion Competitive Strengths & Weaknesses

Table 105. Nexson Group Basic Information, Manufacturing Base and Competitors

Table 106. Nexson Group Major Business

Table 107. Nexson Group Printed Circuit Heat Exchangers Product and Services

Table 108. Nexson Group Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Nexson Group Recent Developments/Updates

- Table 110. Nexson Group Competitive Strengths & Weaknesses
- Table 111. Lanzhou LS Heavy Equipment Basic Information, Manufacturing Base and Competitors
- Table 112. Lanzhou LS Heavy Equipment Major Business
- Table 113. Lanzhou LS Heavy Equipment Printed Circuit Heat Exchangers Product and Services
- Table 114. Lanzhou LS Heavy Equipment Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Lanzhou LS Heavy Equipment Recent Developments/Updates
- Table 116. Lanzhou LS Heavy Equipment Competitive Strengths & Weaknesses
- Table 117. Hangzhou Shenshi Energy Conservation Basic Information, Manufacturing Base and Competitors
- Table 118. Hangzhou Shenshi Energy Conservation Major Business
- Table 119. Hangzhou Shenshi Energy Conservation Printed Circuit Heat Exchangers Product and Services
- Table 120. Hangzhou Shenshi Energy Conservation Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Hangzhou Shenshi Energy Conservation Recent Developments/Updates
- Table 122. Hangzhou Shenshi Energy Conservation Competitive Strengths & Weaknesses
- Table 123. Doosan Enerbility Basic Information, Manufacturing Base and Competitors
- Table 124. Doosan Enerbility Major Business
- Table 125. Doosan Enerbility Printed Circuit Heat Exchangers Product and Services
- Table 126. Doosan Enerbility Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Doosan Enerbility Recent Developments/Updates
- Table 128. Doosan Enerbility Competitive Strengths & Weaknesses
- Table 129. CompRex Basic Information, Manufacturing Base and Competitors
- Table 130. CompRex Major Business
- Table 131. CompRex Printed Circuit Heat Exchangers Product and Services
- Table 132. CompRex Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. CompRex Recent Developments/Updates
- Table 134. CompRex Competitive Strengths & Weaknesses
- Table 135. Nexson Basic Information, Manufacturing Base and Competitors

Table 136. Nexson Major Business

Table 137. Nexson Printed Circuit Heat Exchangers Product and Services

Table 138. Nexson Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Nexson Recent Developments/Updates

Table 140. Nexson Competitive Strengths & Weaknesses

Table 141. Tempco Basic Information, Manufacturing Base and Competitors

Table 142. Tempco Major Business

Table 143. Tempco Printed Circuit Heat Exchangers Product and Services

Table 144. Tempco Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Tempco Recent Developments/Updates

Table 146. Tempco Competitive Strengths & Weaknesses

Table 147. Shanghai Heat Transfer Equipment Basic Information, Manufacturing Base and Competitors

Table 148. Shanghai Heat Transfer Equipment Major Business

Table 149. Shanghai Heat Transfer Equipment Printed Circuit Heat Exchangers Product and Services

Table 150. Shanghai Heat Transfer Equipment Printed Circuit Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shanghai Heat Transfer Equipment Recent Developments/Updates

Table 152. Shanghai Heat Transfer Equipment Competitive Strengths & Weaknesses

Table 153. Global Key Players of Printed Circuit Heat Exchangers Upstream (Raw Materials)

Table 154. Global Printed Circuit Heat Exchangers Typical Customers

Table 155. Printed Circuit Heat Exchangers Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Printed Circuit Heat Exchangers Picture

Figure 2. World Printed Circuit Heat Exchangers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Printed Circuit Heat Exchangers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Printed Circuit Heat Exchangers Production (2021-2032) & (Units)

Figure 5. World Printed Circuit Heat Exchangers Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Printed Circuit Heat Exchangers Production Value Market Share by Region (2021-2032)

Figure 7. World Printed Circuit Heat Exchangers Production Market Share by Region (2021-2032)

Figure 8. North America Printed Circuit Heat Exchangers Production (2021-2032) & (Units)

Figure 9. Europe Printed Circuit Heat Exchangers Production (2021-2032) & (Units)

Figure 10. China Printed Circuit Heat Exchangers Production (2021-2032) & (Units)

Figure 11. Japan Printed Circuit Heat Exchangers Production (2021-2032) & (Units)

Figure 12. Printed Circuit Heat Exchangers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 15. World Printed Circuit Heat Exchangers Consumption Market Share by Region (2021-2032)

Figure 16. United States Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 17. China Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 18. Europe Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 19. Japan Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 20. South Korea Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 21. ASEAN Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 22. India Printed Circuit Heat Exchangers Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Printed Circuit Heat Exchangers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Printed Circuit Heat Exchangers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Printed Circuit Heat Exchangers Markets in 2025

Figure 26. United States VS China: Printed Circuit Heat Exchangers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Printed Circuit Heat Exchangers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Printed Circuit Heat Exchangers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Printed Circuit Heat Exchangers Production Market Share 2025

Figure 30. China Based Manufacturers Printed Circuit Heat Exchangers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Printed Circuit Heat Exchangers Production Market Share 2025

Figure 32. World Printed Circuit Heat Exchangers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Printed Circuit Heat Exchangers Production Value Market Share by Type in 2025

Figure 34. Below 90 MPa

Figure 35. 90-120 MPa

Figure 36. Above 120 MPa

Figure 37. World Printed Circuit Heat Exchangers Production Market Share by Type (2021-2032)

Figure 38. World Printed Circuit Heat Exchangers Production Value Market Share by Type (2021-2032)

Figure 39. World Printed Circuit Heat Exchangers Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World Printed Circuit Heat Exchangers Production Value by Maximum Design Temperature, (USD Million), 2021 & 2025 & 2032

Figure 41. World Printed Circuit Heat Exchangers Production Value Market Share by Maximum Design Temperature in 2025

Figure 42. Below 500°C

Figure 43. 500°C-800°C

Figure 44. Above 800°C

Figure 45. World Printed Circuit Heat Exchangers Production Market Share by Maximum Design Temperature (2021-2032)

Figure 46. World Printed Circuit Heat Exchangers Production Value Market Share by Maximum Design Temperature (2021-2032)

Figure 47. World Printed Circuit Heat Exchangers Average Price by Maximum Design

Temperature (2021-2032) & (K US\$/Unit)

Figure 48. World Printed Circuit Heat Exchangers Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 49. World Printed Circuit Heat Exchangers Production Value Market Share by Material in 2025

Figure 50. Stainless Steel

Figure 51. Nickel-based Alloys

Figure 52. Titanium Alloys

Figure 53. World Printed Circuit Heat Exchangers Production Market Share by Material (2021-2032)

Figure 54. World Printed Circuit Heat Exchangers Production Value Market Share by Material (2021-2032)

Figure 55. World Printed Circuit Heat Exchangers Average Price by Material (2021-2032) & (K US\$/Unit)

Figure 56. World Printed Circuit Heat Exchangers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Printed Circuit Heat Exchangers Production Value Market Share by Application in 2025

Figure 58. Oil & Gas

Figure 59. Marine

Figure 60. Power Generation

Figure 61. Others

Figure 62. World Printed Circuit Heat Exchangers Production Market Share by Application (2021-2032)

Figure 63. World Printed Circuit Heat Exchangers Production Value Market Share by Application (2021-2032)

Figure 64. World Printed Circuit Heat Exchangers Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 65. Printed Circuit Heat Exchangers Industry Chain

Figure 66. Printed Circuit Heat Exchangers Procurement Model

Figure 67. Printed Circuit Heat Exchangers Sales Model

Figure 68. Printed Circuit Heat Exchangers Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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