

Heat Exchangers – A Global Market Overview

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Abstracts

Report Synopsis

The recent past has witnessed significant developments in the global heat exchangers market. The environment-friendly and energy efficient properties of these devices have made them an indispensable component of several industrial applications. Increasing prices of energy have resulted in growing demand for heat exchangers and these devices play a key role in saving energy in many industries, such as chemical, petrochemical, petroleum refining and power.

While Tabular Heat Exchangers market account for the Lion's share of over 50% of global Heat Exchangers market, Plate Type Heat Exchangers market is poised to post the fastest 2019-2025 CAGR of 8% and reach a projected US\$6.8 billion by 2025 from a forecast US\$4.3 billion in 2019. The overall global market for Heat Exchangers is expected to exceed US\$16 billion in 2019.

Research Findings & Coverage

This global market research report on Heat Exchangers analyzes the market with respect to product types, materials and end-use industries

Heat exchangers' market size is estimated in this report by product types, materials and end-use industries across all major countries

Newly Developed Cermet Offers Improved Heat Exchange in Solar Plants

Plate Heat Exchanger Applications Growing

Development of High Temperature Heat Exchangers on the Rise



Ceramics as Alternative Materials for High Temperature Heat Exchangers

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled - 40

The industry guide includes the contact details for 130 companies

Product Outline

The market for key product types of Heat Exchangers studied in this report comprise the following:

Extended Surface

Plate Type

Regenerators

Tubular

The report analyzes the market for the following material types of Heat Exchangers:

Carbon Steel

Nickel

Stainless Steel

Other Materials

The report analyzes the market for the following end-use industries of Heat Exchangers:

Chemical



Food & Beverage

HVACR

Paper & Pulp

Petrochemical and Oil & Gas

Power Generation

Other Industries

Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Heat Exchangers market for the period 2016-2025 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2019 through 2025

Geographic Coverage

North America (The United States, Canada and Mexico)

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

Asia-Pacific (Asia-Pacific – China, India, Japan, South Korea and Rest of Asia-Pacific)

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

Rest of World



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4. KEY BUSINESS AND PRODUCT TRENDS

Aggreko to Open New Depot in Greater Noida, India



Lu-Ve to Takeover Lion's Share in Alfa Laval's Air Heat Exchanger Business for over ?66 Million

Addition of Hydrofluoroether Boosts the Heat Exchange Capacity of HVAC Systems Fiorini Industries' Set 2.0 Plug & Play Model with an L Control Unit for Domestic Hot Water

Nippon Light Metal Company Acquires Modine's Share in Nikkei Heat Exchanger Company Joint Venture

HRS' Turnkey Cooling Systems for Ready Foods

Alfa Laval to Enter Into Fleet Agreement with SEK

HRS Showcases Thermblock Heat Exchangers for Food Industry

Inauguration of Alfa Laval's New Richmond Production Unit for Brazed Heat Exchangers

Inauguration of Alfa Laval's Spiral Heat Exchanger Manufacturing Center in Broken Arrow

Tranter, Inc Launches NovusBloc[™] Series of Welded Plate Heat Exchanger Aggreko to Enter Into a Cooperation Agreement with W?rtsil? on Power Plant

Assets of Harsco's Industrial Air-X-Changers Business Purchased by Chart Industries Vahterus OY Heat Exchanger Solutions Wins Over Broken Welded Plate & Frame Heat Exchangers

Launch of Alfa Laval's New Wide Opening Design Plates in Packinox Heat Exchangers Launch of Alfa Laval's Latest Technology for Fuel Gas Systems

Alfa Laval Launches New Wide Opening Design Plates in Packinox Heat Exchangers Launch of Alfa Laval's New Gas-To-Liquid Plate Heat Exchangers, a Revolution for Gas Cooling

Alfa Laval Concludes the Sale of Air Heat Exchanger Business to the LU-VE Group Danfoss' SW19-59 Range of Semi-Welded Plate Heat Exchangers for Industrial Refrigeration

SWEP's Most Recent Brazed Plate Heat Exchangers Displayed at ACREX India HRS to Unveil New S Series Heat Exchangers to Reduce Contamination Risks Launch of Mitsubishi Electric's New Range of 5-star Air Conditioners with Optimized Heat Exchanger

New HRS SP Series Heat Exchangers for Pharmaceutical Applications

Danfoss and Nelumbo Form Technology Deployment Pact

API Heat Transfer Partnered With the New Investor Group

Kelvion Introduces Two New Products: The Exhaust Gas Heat Exchanger and the EcoMi Modular Economizer

Kelvion to Launch a New Kelvion Plate Heat Exchanger NP150X

Alfa Laval Signed Technology Acquisition Deal with Airec

Kelvion's New Double Tube Safety Heat Exchanger for the High-Pressure Area



HRS Launches New Biogas Dehumidification System (BDS) for Biogas Water Removal Alfa Laval Packinox enters Honeywell Connected Plant Initiative

Rocore Group Acquired by Kelvion

Bitzer and G?ntner form Heat Exchanger Distribution Pact

Alfa Laval's Shell-and-Tube Heat Exchanger Segment Acquired by Bitzer

Launch of Unicus Series from HRS Heat Exchangers

New City Multi YNW Variable Refrigerant Flow System from Mitsubishi Electric

Alfa Laval Unveils New Production Unit in US for Brazed Heat Exchangers

Mutares Subsidiary Balcke-D?rr Group to Acquire Heat Transfer Product (HTP) Division of STF

Kelvion's Plate Heat Exchangers for Maritime Operations

Mutares to Takeover Donges Steeltec

Kelvion ProEquip Tube H Shell-And-Tube Heat Exchanger for Industrial CIP Cleaning Systems

Tranter, Inc Selects AREVA NP as Distributor Partner

Xylem, Inc. Shifts its Heat Exchanger Manufacture Base to Axminster, UK

Display of Kelvion ProEquip Tube Heat Exchangers at Drinktec

Paul Mueller Company's New Facility in the Netherlands Makes Plate Heat Exchangers Mutares to Acquire Balcke-D?rr

Thermex Ltd Develops Heat Exchanger for Seakeeper, Inc

Hitachi Zosen Builds a New Array Ultrasonic Testing (PA-UT) Technology for Heat Exchangers

Air Products to Celebrate the Launch of the First LNG Heat Exchanger Unit at New Facility

Danfoss Acquires Sondex Holding to Expand Heat Transfer Solutions Portfolio

Danfoss to Reinforce its Global Market Position for Heat Transfer Solutions

Cummins Unveils the SmartEfficiency Initiative for Transit Bus

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Alfa Laval Corporate AB (Sweden)

Balcke-D?rr GmbH (Germany)

Barriquand Technologies Thermiques SAS (France)

Danfoss A/S (Denmark)

Sondex Holdings A/S (Denmark)

E. J. Bowman (Birmingham), Ltd. (United Kingdom)

Fischer Maschinen- U. Apparatebau GmbH (Austria)

FUNKE Heat Exchanger Apparatebau GmbH (Germany)

GEA Group Aktiengesellschaft (Germany)

Gunther GmbH (Germany)

Hamon & CIE International SA (Belgium)

HRS Heat Exchangers Ltd. (United Kingdom)

Johnson Controls International Plc (Ireland)

Kelvion Holding GmbH (Germany)

Mersen Group (France)

SGL Group (Germany)

SWEP International Ab (Sweden)

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Doosan Mecatec Co., Ltd. (South Korea)

Hindustan Dorr-Oliver Ltd. (India)

Hisaka Works Ltd. (Japan)

IHI Corporation (Japan)

KNM Group Berhad (Malaysia)



Lanzhou Lanshi Group Co., Ltd (Ls Group) (China)

Larsen & Toubro Limited (India)

Siping City Juyuan Haoyang Plate Heat Exchanger Co., Ltd. (China)

Smartheat, Inc. (China)

Thermax Limited (India)

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Figure 25: Longitudinal Fins on Individual Tubes: (a) Continuous Plain; (b) Cut and

Twisted; (c) Perforated; (d) Internal and External Longitudinal Fins

Figure 26: Internally Finned Tubes

Figure 27: Heat Pipe Heat Exchanger

Figure 28: Operation of a Heat Pipe Regenerators

Figure 29: Rothemuhle Regenerator

- Figure 30: Ljungstrom Air Preheater
- Figure 31: Heat Wheel or Rotary Regenerator made from a Polyester Film

Figure 32: Rotary Regenerator made from Treated Japanese Paper

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Figure 35: (a) Three-Stove Regenerator with Series-Parallel Arrangement; (b) Operating

Schedule: H – Hot Gas Period, C – Blast Period

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Operating Schedule: H - Hot Gas Period, C - Blast Period

Figure 37: Checkers used in Blast Furnace Regenerators

Figure 38: Flow Diagram of a Typical Building Air-Conditioning System

Figure 39: A Solar Energy System



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