

Global Marine Exhaust Gas Heat Exchangers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Marine Exhaust Gas Heat Exchangers market size is expected to reach \$ 490 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Marine Exhaust Gas Heat Exchangers are marine heat-recovery devices installed in the exhaust path of main engines, auxiliary engines or generator sets to transfer otherwise wasted exhaust heat into steam, hot water, thermal oil or other useful thermal media. The market covers dedicated marine exhaust gas economizers, exhaust gas boilers used primarily for heat recovery, hot-water exhaust gas economizers and thermal-oil exhaust gas heaters. Commercial designs mainly use smoke-tube or water-tube configurations, while bare tubes, finned or gilled tubes, pin tubes and other extended heating surfaces are selected according to exhaust temperature, gas flow, allowable back pressure, heat-recovery duty and fouling conditions. Steam-oriented systems remain the mainstream configuration, while hot-water and thermal-oil units serve vessel heating and specialized process requirements. Products may recover heat from a single main engine, auxiliary or generator engine, or multiple exhaust sources, and can be supplied as standalone economizers, integrated exhaust gas boilers, composite-boiler sections or combined economizer-silencer modules. The equipment is widely used on container ships, bulk carriers, tankers, gas carriers, passenger vessels, ferries and offshore or specialized vessels. Commercial products span compact auxiliary-engine economizers through multi-megawatt heat-recovery units, reflecting substantial variation in steam capacity, design pressure, installation space and vessel duty.

Key Findings

The weighted equivalent project value of marine exhaust gas heat exchangers was approximately US\$160,000–190,000 per unit in 2025.

Steam-based systems remain the mainstream product type.

Asia-Pacific is the largest newbuild installation market for marine exhaust gas heat exchangers.

Compact designs, deeper waste heat recovery, multi-engine configurations, and integrated economizer-silencer solutions are the key product upgrade trends.

Market Trends

Product development is shifting from conventional single-function exhaust gas economizers toward compact, modular and more deeply integrated heat-recovery equipment. Extended heating surfaces such as finned, gilled and other enhanced tubes are increasingly used to raise heat-transfer density while controlling footprint and weight. Forced-circulation systems, integrated bypasses, dry-running capability and modular tube sections are also improving operational flexibility under variable engine loads and simplifying maintenance. Major commercial products already cover steam capacities from compact auxiliary-engine applications to substantially larger main-engine installations; for example, established water-tube economizer platforms can reach steam capacities of up to 17 tonnes per hour, while thermal-fluid units are commercially available across a 100–5,000 kW range.

Another important trend is the expansion of the addressable heat source. Marine waste-heat recovery is no longer limited to a single propulsion engine. Auxiliary engines, generator sets and multiple-engine arrangements are increasingly being considered, particularly where vessels have significant hotel loads, electrical loads or variable propulsion profiles. Integrated economizer-silencer designs also demonstrate how suppliers are combining heat recovery with other exhaust-system functions to reduce installation footprint.

Market Dynamics

Drivers

Fuel-cost reduction and vessel energy-efficiency requirements remain the principal demand drivers. Exhaust gas heat exchangers recover thermal energy that would otherwise be discharged through the stack, reducing dependence on fired auxiliary boilers and lowering fuel consumption. IMO recognizes waste heat recovery as one of the available technical measures for improving ship energy efficiency under the EEXI framework, while CII creates an additional operational incentive for shipowners to reduce carbon intensity.

A second driver is the large newbuilding pipeline and installed commercial fleet. At the beginning of 2026, the global merchant fleet comprised approximately 116,000 vessels of at least 100 GT, including around 62,000 vessels above 1,000 GT. This installed base creates recurring demand for replacement, tube-section renewal, capacity upgrades and selected energy-efficiency retrofits in addition to OEM installations on new vessels.

Restraints

The market is constrained by its mature technology base and already-established penetration on larger ocean-going vessels. Retrofit projects must also accommodate limited engine-room space, additional equipment weight, exhaust-system modifications and acceptable engine back pressure. The economic case varies materially by vessel operating profile, remaining service life, fuel consumption and available onboard heat demand. Consequently, not every vessel with recoverable exhaust heat is an economically viable retrofit candidate.

Opportunities

The clearest opportunities lie in compact retrofit economizers, auxiliary-engine heat recovery, multi-engine systems and deeper utilization of lower-grade exhaust heat. Designs capable of fitting restricted machinery spaces or combining an economizer with a silencer can expand the retrofit addressable market. Additional opportunities arise where recovered steam or thermal energy can support onboard heating, process loads or downstream power-generation equipment without requiring a complete redesign of the vessel energy system.

Challenges

Technical challenges center on soot deposition, low-temperature corrosion, thermal cycling, fluctuating engine loads and pressure-drop control. More aggressive heat recovery can lower exhaust outlet temperature but simultaneously increase condensation and fouling risks, making surface design, bypass control, cleaning access and materials selection increasingly important. Suppliers therefore compete not only on nominal heat-transfer efficiency, but also on lifecycle reliability, maintainability and the ability to operate safely across a wide engine-load envelope.

Industry Chain Analysis

The upstream supply chain consists mainly of pressure-vessel steel, stainless and alloy tubing, finned or pin-tube heat-transfer components, welding materials, insulation, valves, pumps, soot-cleaning components, instrumentation and control equipment. Midstream manufacturers carry out thermal design, pressure-vessel engineering, tube fabrication, welding, casing manufacture, system integration, testing and classification-society certification. The downstream customer base includes shipyards, shipowners, marine engineering contractors and vessel operators, with installations connected to main engines, auxiliary engines, steam systems, hot-water circuits or thermal-oil systems. Aftermarket services include inspection, cleaning, tube replacement, pressure-part repairs, controls and efficiency upgrades.

Value Chain Analysis

Value creation is concentrated in thermal and mechanical engineering rather than in raw materials alone. Manufacturers must balance heat-transfer efficiency against exhaust back pressure, footprint, vibration resistance, fouling, corrosion and vessel-specific integration requirements. Classification approval, welding quality, pressure-part fabrication experience and global marine service capability further raise entry barriers. Higher-value projects typically involve greater steam capacity, more complex circulation arrangements, multiple exhaust sources, specialized heat-transfer surfaces or integrated control and bypass functions. Aftermarket maintenance and replacement parts provide an additional lifecycle value pool because exhaust-side equipment operates continuously in a highly contaminated and thermally demanding environment.

Segment Insights

By heat-recovery medium, steam is the mainstream configuration, supported by mature

onboard steam systems and broad applications in fuel heating, cargo-related duties, hotel loads and other thermal consumers. Hot-water units occupy an important position where central heating demand dominates, while thermal-oil systems serve vessels that prefer closed-loop high-temperature heat transfer. Commercial marine portfolios confirm the coexistence of steam economizers and dedicated exhaust-gas thermal-oil heaters.

By flow configuration, smoke-tube and water-tube designs remain the two principal architectures. By heating surface, bare-tube, finned or gilled-tube and pin-tube configurations represent the main commercial approaches. By exhaust source, main-engine systems generally address larger individual heat loads, while auxiliary-engine and genset systems expand recovery opportunities during vessel operating conditions where propulsion-engine exhaust availability is reduced. Multi-engine configurations are becoming more relevant where several generator sets operate according to electrical demand.

Downstream Market Opportunities

Large ocean-going commercial vessels remain the fundamental demand base because they combine high engine operating hours with meaningful onboard thermal requirements. Newbuild opportunities are concentrated in container ships, bulk carriers, tankers, gas carriers and other large commercial vessels, while passenger ships, ferries and specialized vessels can offer attractive applications where hotel and heating loads are substantial. The retrofit opportunity is more selective but potentially attractive for vessels with sufficient remaining service life, high annual fuel consumption and adequate machinery-space integration conditions.

Auxiliary-engine heat recovery is an increasingly attractive sub-segment because many modern vessels operate substantial electrical generation capacity even when propulsion load is reduced. Compact economizers designed specifically for auxiliary engines can therefore recover energy during port operations, maneuvering and low-load sailing conditions that are less favorable for conventional main-engine-only waste heat recovery.

Regional Insights

Asia-Pacific is the primary demand and installation region because global shipbuilding is overwhelmingly concentrated in East Asia. In 2025, approximately 91% of completed

ship tonnage was built in China, the Republic of Korea or Japan, creating a strong local ecosystem linking shipyards, marine boiler manufacturers, economizer suppliers and classification services. China also represents an increasingly important manufacturing base for pin-tube and finned-tube marine economizers, while Korea and Japan retain strong positions in marine boiler and auxiliary machinery engineering.

Europe remains an important high-value technology and engineering center, particularly in advanced waste-heat recovery, compact retrofit solutions, modular designs and specialized thermal systems. North America has a smaller dedicated manufacturing base but retains opportunities in fleet retrofit, marine service and specialized vessels. Southeast Asia and the Middle East are more important as ship-operation, repair and service markets than as major manufacturing centers for dedicated marine exhaust gas heat exchangers.

Competitive Landscape Analysis

The competitive structure is moderately concentrated and specialized rather than fragmented like the general industrial heat-exchanger market. The confirmed core supplier pool comprises 11 manufacturers, with the strongest manufacturing clusters located in Europe, Japan, the Republic of Korea and China. Competition is shaped by marine references, shipyard relationships, classification approvals, heat-transfer engineering, pressure-vessel manufacturing capability and global lifecycle service rather than equipment price alone.

Regional competitive advantages differ. European suppliers are particularly strong in advanced heat-recovery engineering and retrofit-oriented solutions; Japanese and Korean suppliers benefit from long-standing relationships with major Asian shipyards and established marine boiler portfolios; Chinese manufacturers benefit from proximity to the world's largest shipbuilding base and competitive fabrication capability. The resulting market structure favors experienced suppliers with proven vessel installations, while smaller manufacturers can compete effectively in regional newbuilding, replacement and customized projects.

Report Scope

This report studies the global Marine Exhaust Gas Heat Exchangers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Marine Exhaust Gas Heat Exchangers total production and demand, 2021-2032, (Units)

Global Marine Exhaust Gas Heat Exchangers total production value, 2021-2032, (USD Million)

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

Global Marine Exhaust Gas Heat Exchangers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Marine Exhaust Gas Heat Exchangers domestic production, consumption, key domestic manufacturers and share

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

Global Marine Exhaust Gas Heat Exchangers production by Heat Recovery Medium, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Marine Exhaust Gas Heat Exchangers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Marine Exhaust Gas 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 AB, Kangrim Heavy Industries Co., Ltd., SAACKE GmbH, MIURA CO., LTD., OSAKA BOILER MFG. CO., LTD., PARAT Halvorsen AS, TORTOISE ENGINEERING CO., LTD., Babcock Wanson Group, Kelvion Holding GmbH, Ulmatec Group, 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 Marine Exhaust Gas 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 Heat Recovery Medium, 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 Marine Exhaust Gas Heat Exchangers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Marine Exhaust Gas Heat Exchangers Market, Segmentation by Heat Recovery Medium:

Steam

Hot Water

Thermal Oil

Others

Global Marine Exhaust Gas Heat Exchangers Market, Segmentation by Heat Exchanger Flow Configuration:

Smoke Tube

Water Tube

Others

Global Marine Exhaust Gas Heat Exchangers Market, Segmentation by Heat Transfer Surface:

Bare Tube

Finned or Gilled Tube

Pin Tube

Others

Global Marine Exhaust Gas Heat Exchangers Market, Segmentation

by Application:

Container Ships

Bulk Carriers

Tankers

Gas Carriers

Passenger Ships and Ferries

Offshore and Specialized Vessels

Others

Companies Profiled:

Alfa Laval AB

Kangrim Heavy Industries Co., Ltd.

SAACKE GmbH

MIURA CO., LTD.

OSAKA BOILER MFG. CO., LTD.

PARAT Halvorsen AS

TORTOISE ENGINEERING CO., LTD.

Babcock Wanson Group

Kelvion Holding GmbH

Ulmatec Group

Qingdao Kaineng Environmental Protection Technology Co., Ltd.

Key Questions Answered

1. How big is the global Marine Exhaust Gas Heat Exchangers market?
2. What is the demand of the global Marine Exhaust Gas Heat Exchangers market?
3. What is the year over year growth of the global Marine Exhaust Gas Heat Exchangers market?
4. What is the total value of the global Marine Exhaust Gas Heat Exchangers market?
5. Who are the Major Players in the global Marine Exhaust Gas Heat Exchangers market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Marine Exhaust Gas Heat Exchangers Demand (2021-2032)
- 2.2 World Marine Exhaust Gas Heat Exchangers Consumption by Region
 - 2.2.1 World Marine Exhaust Gas Heat Exchangers Consumption by Region (2021-2026)
 - 2.2.2 World Marine Exhaust Gas Heat Exchangers Consumption Forecast by Region (2027-2032)
- 2.3 United States Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)
- 2.4 China Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)
- 2.5 Europe Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)
- 2.6 Japan Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)
- 2.7 South Korea Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)

2.8 ASEAN Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)

2.9 India Marine Exhaust Gas Heat Exchangers Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Marine Exhaust Gas Heat Exchangers Production Value by Manufacturer (2021-2026)

3.2 World Marine Exhaust Gas Heat Exchangers Production by Manufacturer (2021-2026)

3.3 World Marine Exhaust Gas Heat Exchangers Average Price by Manufacturer (2021-2026)

3.4 Marine Exhaust Gas Heat Exchangers Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Marine Exhaust Gas Heat Exchangers Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Marine Exhaust Gas Heat Exchangers in 2025

3.5.3 Global Concentration Ratios (CR8) for Marine Exhaust Gas Heat Exchangers in 2025

3.6 Marine Exhaust Gas Heat Exchangers Market: Overall Company Footprint Analysis

3.6.1 Marine Exhaust Gas Heat Exchangers Market: Region Footprint

3.6.2 Marine Exhaust Gas Heat Exchangers Market: Company Product Type Footprint

3.6.3 Marine Exhaust Gas 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: Marine Exhaust Gas Heat Exchangers Production Value Comparison

4.1.1 United States VS China: Marine Exhaust Gas Heat Exchangers Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Marine Exhaust Gas Heat Exchangers Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Marine Exhaust Gas Heat Exchangers Production Comparison

4.2.1 United States VS China: Marine Exhaust Gas Heat Exchangers Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Marine Exhaust Gas Heat Exchangers Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Marine Exhaust Gas Heat Exchangers Consumption Comparison

4.3.1 United States VS China: Marine Exhaust Gas Heat Exchangers Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Marine Exhaust Gas Heat Exchangers Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Marine Exhaust Gas Heat Exchangers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Marine Exhaust Gas Heat Exchangers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Marine Exhaust Gas Heat Exchangers Production (2021-2026)

4.5 China Based Marine Exhaust Gas Heat Exchangers Manufacturers and Market Share

4.5.1 China Based Marine Exhaust Gas Heat Exchangers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value (2021-2026)

4.5.3 China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production (2021-2026)

4.6 Rest of World Based Marine Exhaust Gas Heat Exchangers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Marine Exhaust Gas Heat Exchangers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Marine Exhaust Gas Heat Exchangers Production (2021-2026)

5 MARKET ANALYSIS BY HEAT RECOVERY MEDIUM

5.1 World Marine Exhaust Gas Heat Exchangers Market Size Overview by Heat Recovery Medium: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Heat Recovery Medium

5.2.1 Steam

5.2.2 Hot Water

5.2.3 Thermal Oil

5.2.4 Others

5.3 Market Segment by Heat Recovery Medium

5.3.1 World Marine Exhaust Gas Heat Exchangers Production by Heat Recovery Medium (2021-2032)

5.3.2 World Marine Exhaust Gas Heat Exchangers Production Value by Heat Recovery Medium (2021-2032)

5.3.3 World Marine Exhaust Gas Heat Exchangers Average Price by Heat Recovery Medium (2021-2032)

6 MARKET ANALYSIS BY HEAT EXCHANGER FLOW CONFIGURATION

6.1 World Marine Exhaust Gas Heat Exchangers Market Size Overview by Heat Exchanger Flow Configuration: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Heat Exchanger Flow Configuration

6.2.1 Smoke Tube

6.2.2 Water Tube

6.2.3 Others

6.3 Market Segment by Heat Exchanger Flow Configuration

6.3.1 World Marine Exhaust Gas Heat Exchangers Production by Heat Exchanger Flow Configuration (2021-2032)

6.3.2 World Marine Exhaust Gas Heat Exchangers Production Value by Heat Exchanger Flow Configuration (2021-2032)

6.3.3 World Marine Exhaust Gas Heat Exchangers Average Price by Heat Exchanger Flow Configuration (2021-2032)

7 MARKET ANALYSIS BY HEAT TRANSFER SURFACE

7.1 World Marine Exhaust Gas Heat Exchangers Market Size Overview by Heat Transfer Surface: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Heat Transfer Surface

7.2.1 Bare Tube

7.2.2 Finned or Gilled Tube

7.2.3 Pin Tube

7.2.4 Others

7.3 Market Segment by Heat Transfer Surface

7.3.1 World Marine Exhaust Gas Heat Exchangers Production by Heat Transfer Surface (2021-2032)

7.3.2 World Marine Exhaust Gas Heat Exchangers Production Value by Heat Transfer Surface (2021-2032)

7.3.3 World Marine Exhaust Gas Heat Exchangers Average Price by Heat Transfer Surface (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Marine Exhaust Gas Heat Exchangers Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Container Ships

8.2.2 Bulk Carriers

8.2.3 Tankers

8.2.4 Gas Carriers

8.2.5 Passenger Ships and Ferries

8.2.6 Offshore and Specialized Vessels

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World Marine Exhaust Gas Heat Exchangers Production by Application (2021-2032)

8.3.2 World Marine Exhaust Gas Heat Exchangers Production Value by Application (2021-2032)

8.3.3 World Marine Exhaust Gas Heat Exchangers Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Alfa Laval AB

9.1.1 Alfa Laval AB Details

9.1.2 Alfa Laval AB Major Business

9.1.3 Alfa Laval AB Marine Exhaust Gas Heat Exchangers Product and Services

9.1.4 Alfa Laval AB Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Alfa Laval AB Recent Developments/Updates

9.1.6 Alfa Laval AB Competitive Strengths & Weaknesses

9.2 Kangrim Heavy Industries Co., Ltd.

9.2.1 Kangrim Heavy Industries Co., Ltd. Details

9.2.2 Kangrim Heavy Industries Co., Ltd. Major Business

9.2.3 Kangrim Heavy Industries Co., Ltd. Marine Exhaust Gas Heat Exchangers Product and Services

9.2.4 Kangrim Heavy Industries Co., Ltd. Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Kangrim Heavy Industries Co., Ltd. Recent Developments/Updates

9.2.6 Kangrim Heavy Industries Co., Ltd. Competitive Strengths & Weaknesses

9.3 SAACKE GmbH

9.3.1 SAACKE GmbH Details

9.3.2 SAACKE GmbH Major Business

9.3.3 SAACKE GmbH Marine Exhaust Gas Heat Exchangers Product and Services

9.3.4 SAACKE GmbH Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 SAACKE GmbH Recent Developments/Updates

9.3.6 SAACKE GmbH Competitive Strengths & Weaknesses

9.4 MIURA CO., LTD.

9.4.1 MIURA CO., LTD. Details

9.4.2 MIURA CO., LTD. Major Business

9.4.3 MIURA CO., LTD. Marine Exhaust Gas Heat Exchangers Product and Services

9.4.4 MIURA CO., LTD. Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 MIURA CO., LTD. Recent Developments/Updates

9.4.6 MIURA CO., LTD. Competitive Strengths & Weaknesses

9.5 OSAKA BOILER MFG. CO., LTD.

9.5.1 OSAKA BOILER MFG. CO., LTD. Details

9.5.2 OSAKA BOILER MFG. CO., LTD. Major Business

9.5.3 OSAKA BOILER MFG. CO., LTD. Marine Exhaust Gas Heat Exchangers Product and Services

9.5.4 OSAKA BOILER MFG. CO., LTD. Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 OSAKA BOILER MFG. CO., LTD. Recent Developments/Updates

9.5.6 OSAKA BOILER MFG. CO., LTD. Competitive Strengths & Weaknesses

9.6 PARAT Halvorsen AS

9.6.1 PARAT Halvorsen AS Details

9.6.2 PARAT Halvorsen AS Major Business

9.6.3 PARAT Halvorsen AS Marine Exhaust Gas Heat Exchangers Product and Services

9.6.4 PARAT Halvorsen AS Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 PARAT Halvorsen AS Recent Developments/Updates

9.6.6 PARAT Halvorsen AS Competitive Strengths & Weaknesses

9.7 TORTOISE ENGINEERING CO., LTD.

9.7.1 TORTOISE ENGINEERING CO., LTD. Details

9.7.2 TORTOISE ENGINEERING CO., LTD. Major Business

9.7.3 TORTOISE ENGINEERING CO., LTD. Marine Exhaust Gas Heat Exchangers Product and Services

9.7.4 TORTOISE ENGINEERING CO., LTD. Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 TORTOISE ENGINEERING CO., LTD. Recent Developments/Updates

9.7.6 TORTOISE ENGINEERING CO., LTD. Competitive Strengths & Weaknesses

9.8 Babcock Wanson Group

9.8.1 Babcock Wanson Group Details

9.8.2 Babcock Wanson Group Major Business

9.8.3 Babcock Wanson Group Marine Exhaust Gas Heat Exchangers Product and Services

9.8.4 Babcock Wanson Group Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Babcock Wanson Group Recent Developments/Updates

9.8.6 Babcock Wanson Group Competitive Strengths & Weaknesses

9.9 Kelvion Holding GmbH

9.9.1 Kelvion Holding GmbH Details

9.9.2 Kelvion Holding GmbH Major Business

9.9.3 Kelvion Holding GmbH Marine Exhaust Gas Heat Exchangers Product and Services

9.9.4 Kelvion Holding GmbH Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Kelvion Holding GmbH Recent Developments/Updates

9.9.6 Kelvion Holding GmbH Competitive Strengths & Weaknesses

9.10 Ulmatec Group

9.10.1 Ulmatec Group Details

9.10.2 Ulmatec Group Major Business

9.10.3 Ulmatec Group Marine Exhaust Gas Heat Exchangers Product and Services

9.10.4 Ulmatec Group Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Ulmatec Group Recent Developments/Updates

9.10.6 Ulmatec Group Competitive Strengths & Weaknesses

9.11 Qingdao Kaineng Environmental Protection Technology Co., Ltd.

9.11.1 Qingdao Kaineng Environmental Protection Technology Co., Ltd. Details

9.11.2 Qingdao Kaineng Environmental Protection Technology Co., Ltd. Major Business

9.11.3 Qingdao Kaineng Environmental Protection Technology Co., Ltd. Marine Exhaust Gas Heat Exchangers Product and Services

9.11.4 Qingdao Kaineng Environmental Protection Technology Co., Ltd. Marine Exhaust Gas Heat Exchangers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Qingdao Kaineng Environmental Protection Technology Co., Ltd. Recent Developments/Updates

9.11.6 Qingdao Kaineng Environmental Protection Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Marine Exhaust Gas Heat Exchangers Industry Chain

10.2 Marine Exhaust Gas Heat Exchangers Upstream Analysis

10.2.1 Marine Exhaust Gas Heat Exchangers Core Raw Materials

10.2.2 Main Manufacturers of Marine Exhaust Gas Heat Exchangers Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Marine Exhaust Gas Heat Exchangers Production Mode

10.6 Marine Exhaust Gas Heat Exchangers Procurement Model

10.7 Marine Exhaust Gas Heat Exchangers Industry Sales Model and Sales Channels

10.7.1 Marine Exhaust Gas Heat Exchangers Sales Model

10.7.2 Marine Exhaust Gas 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 Marine Exhaust Gas Heat Exchangers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Marine Exhaust Gas Heat Exchangers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Marine Exhaust Gas Heat Exchangers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Region (2021-2026)

Table 5. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Region (2027-2032)

Table 6. World Marine Exhaust Gas Heat Exchangers Production by Region (2021-2026) & (Units)

Table 7. World Marine Exhaust Gas Heat Exchangers Production by Region (2027-2032) & (Units)

Table 8. World Marine Exhaust Gas Heat Exchangers Production Market Share by Region (2021-2026)

Table 9. World Marine Exhaust Gas Heat Exchangers Production Market Share by Region (2027-2032)

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

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

Table 12. Marine Exhaust Gas Heat Exchangers Major Market Trends

Table 13. World Marine Exhaust Gas Heat Exchangers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Marine Exhaust Gas Heat Exchangers Consumption by Region (2021-2026) & (Units)

Table 15. World Marine Exhaust Gas Heat Exchangers Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Marine Exhaust Gas Heat Exchangers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Marine Exhaust Gas Heat Exchangers Producers in 2025

Table 18. World Marine Exhaust Gas Heat Exchangers Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Marine Exhaust Gas Heat Exchangers Producers in 2025

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

Table 21. Global Marine Exhaust Gas Heat Exchangers Company Evaluation Quadrant

Table 22. World Marine Exhaust Gas Heat Exchangers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Marine Exhaust Gas Heat Exchangers Production Site of Key Manufacturer

Table 24. Marine Exhaust Gas Heat Exchangers Market: Company Product Type Footprint

Table 25. Marine Exhaust Gas Heat Exchangers Market: Company Product Application Footprint

Table 26. Marine Exhaust Gas Heat Exchangers Competitive Factors

Table 27. Marine Exhaust Gas Heat Exchangers New Entrant and Capacity Expansion Plans

Table 28. Marine Exhaust Gas Heat Exchangers Mergers & Acquisitions Activity

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

Table 30. United States VS China Marine Exhaust Gas Heat Exchangers Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Marine Exhaust Gas Heat Exchangers Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Marine Exhaust Gas Heat Exchangers Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Marine Exhaust Gas Heat Exchangers Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Market Share (2021-2026)

Table 37. China Based Marine Exhaust Gas Heat Exchangers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Market Share (2021-2026)

Table 42. Rest of World Based Marine Exhaust Gas Heat Exchangers Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Marine Exhaust Gas Heat Exchangers Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Market Share (2021-2026)

Table 47. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Recovery Medium, (USD Million), 2021 & 2025 & 2032

Table 48. World Marine Exhaust Gas Heat Exchangers Production by Heat Recovery Medium (2021-2026) & (Units)

Table 49. World Marine Exhaust Gas Heat Exchangers Production by Heat Recovery Medium (2027-2032) & (Units)

Table 50. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Recovery Medium (2021-2026) & (USD Million)

Table 51. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Recovery Medium (2027-2032) & (USD Million)

Table 52. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Recovery Medium (2021-2026) & (K US\$/Unit)

Table 53. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Recovery Medium (2027-2032) & (K US\$/Unit)

Table 54. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Exchanger Flow Configuration, (USD Million), 2021 & 2025 & 2032

Table 55. World Marine Exhaust Gas Heat Exchangers Production by Heat Exchanger Flow Configuration (2021-2026) & (Units)

Table 56. World Marine Exhaust Gas Heat Exchangers Production by Heat Exchanger Flow Configuration (2027-2032) & (Units)

Table 57. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Exchanger Flow Configuration (2021-2026) & (USD Million)

Table 58. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Exchanger Flow Configuration (2027-2032) & (USD Million)

Table 59. World Marine Exhaust Gas Heat Exchangers Average Price by Heat

Exchanger Flow Configuration (2021-2026) & (K US\$/Unit)

Table 60. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Exchanger Flow Configuration (2027-2032) & (K US\$/Unit)

Table 61. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Transfer Surface, (USD Million), 2021 & 2025 & 2032

Table 62. World Marine Exhaust Gas Heat Exchangers Production by Heat Transfer Surface (2021-2026) & (Units)

Table 63. World Marine Exhaust Gas Heat Exchangers Production by Heat Transfer Surface (2027-2032) & (Units)

Table 64. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Transfer Surface (2021-2026) & (USD Million)

Table 65. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Transfer Surface (2027-2032) & (USD Million)

Table 66. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Transfer Surface (2021-2026) & (K US\$/Unit)

Table 67. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Transfer Surface (2027-2032) & (K US\$/Unit)

Table 68. World Marine Exhaust Gas Heat Exchangers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Marine Exhaust Gas Heat Exchangers Production by Application (2021-2026) & (Units)

Table 70. World Marine Exhaust Gas Heat Exchangers Production by Application (2027-2032) & (Units)

Table 71. World Marine Exhaust Gas Heat Exchangers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Marine Exhaust Gas Heat Exchangers Production Value by Application (2027-2032) & (USD Million)

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

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

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

Table 76. Alfa Laval AB Major Business

Table 77. Alfa Laval AB Marine Exhaust Gas Heat Exchangers Product and Services

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

Table 79. Alfa Laval AB Recent Developments/Updates

Table 80. Alfa Laval AB Competitive Strengths & Weaknesses

Table 81. Kangrim Heavy Industries Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Kangrim Heavy Industries Co., Ltd. Major Business

Table 83. Kangrim Heavy Industries Co., Ltd. Marine Exhaust Gas Heat Exchangers Product and Services

Table 84. Kangrim Heavy Industries Co., Ltd. Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Kangrim Heavy Industries Co., Ltd. Recent Developments/Updates

Table 86. Kangrim Heavy Industries Co., Ltd. Competitive Strengths & Weaknesses

Table 87. SAACKE GmbH Basic Information, Manufacturing Base and Competitors

Table 88. SAACKE GmbH Major Business

Table 89. SAACKE GmbH Marine Exhaust Gas Heat Exchangers Product and Services

Table 90. SAACKE GmbH Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. SAACKE GmbH Recent Developments/Updates

Table 92. SAACKE GmbH Competitive Strengths & Weaknesses

Table 93. MIURA CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 94. MIURA CO., LTD. Major Business

Table 95. MIURA CO., LTD. Marine Exhaust Gas Heat Exchangers Product and Services

Table 96. MIURA CO., LTD. Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. MIURA CO., LTD. Recent Developments/Updates

Table 98. MIURA CO., LTD. Competitive Strengths & Weaknesses

Table 99. OSAKA BOILER MFG. CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 100. OSAKA BOILER MFG. CO., LTD. Major Business

Table 101. OSAKA BOILER MFG. CO., LTD. Marine Exhaust Gas Heat Exchangers Product and Services

Table 102. OSAKA BOILER MFG. CO., LTD. Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. OSAKA BOILER MFG. CO., LTD. Recent Developments/Updates

Table 104. OSAKA BOILER MFG. CO., LTD. Competitive Strengths & Weaknesses

Table 105. PARAT Halvorsen AS Basic Information, Manufacturing Base and Competitors

Table 106. PARAT Halvorsen AS Major Business

Table 107. PARAT Halvorsen AS Marine Exhaust Gas Heat Exchangers Product and Services

Table 108. PARAT Halvorsen AS Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. PARAT Halvorsen AS Recent Developments/Updates

Table 110. PARAT Halvorsen AS Competitive Strengths & Weaknesses

Table 111. TORTOISE ENGINEERING CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 112. TORTOISE ENGINEERING CO., LTD. Major Business

Table 113. TORTOISE ENGINEERING CO., LTD. Marine Exhaust Gas Heat Exchangers Product and Services

Table 114. TORTOISE ENGINEERING CO., LTD. Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. TORTOISE ENGINEERING CO., LTD. Recent Developments/Updates

Table 116. TORTOISE ENGINEERING CO., LTD. Competitive Strengths & Weaknesses

Table 117. Babcock Wanson Group Basic Information, Manufacturing Base and Competitors

Table 118. Babcock Wanson Group Major Business

Table 119. Babcock Wanson Group Marine Exhaust Gas Heat Exchangers Product and Services

Table 120. Babcock Wanson Group Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Babcock Wanson Group Recent Developments/Updates

Table 122. Babcock Wanson Group Competitive Strengths & Weaknesses

Table 123. Kelvion Holding GmbH Basic Information, Manufacturing Base and Competitors

Table 124. Kelvion Holding GmbH Major Business

Table 125. Kelvion Holding GmbH Marine Exhaust Gas Heat Exchangers Product and Services

Table 126. Kelvion Holding GmbH Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Kelvion Holding GmbH Recent Developments/Updates

Table 128. Kelvion Holding GmbH Competitive Strengths & Weaknesses

Table 129. Ulmatec Group Basic Information, Manufacturing Base and Competitors

Table 130. Ulmatec Group Major Business

Table 131. Ulmatec Group Marine Exhaust Gas Heat Exchangers Product and Services

Table 132. Ulmatec Group Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Ulmatec Group Recent Developments/Updates

Table 134. Ulmatec Group Competitive Strengths & Weaknesses

Table 135. Qingdao Kaineng Environmental Protection Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Qingdao Kaineng Environmental Protection Technology Co., Ltd. Major Business

Table 137. Qingdao Kaineng Environmental Protection Technology Co., Ltd. Marine Exhaust Gas Heat Exchangers Product and Services

Table 138. Qingdao Kaineng Environmental Protection Technology Co., Ltd. Marine Exhaust Gas Heat Exchangers Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Qingdao Kaineng Environmental Protection Technology Co., Ltd. Recent Developments/Updates

Table 140. Qingdao Kaineng Environmental Protection Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Global Key Players of Marine Exhaust Gas Heat Exchangers Upstream (Raw Materials)

Table 142. Global Marine Exhaust Gas Heat Exchangers Typical Customers

Table 143. Marine Exhaust Gas Heat Exchangers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Marine Exhaust Gas Heat Exchangers Picture

Figure 2. World Marine Exhaust Gas Heat Exchangers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Marine Exhaust Gas Heat Exchangers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Marine Exhaust Gas Heat Exchangers Production (2021-2032) & (Units)

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

Figure 6. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Region (2021-2032)

Figure 7. World Marine Exhaust Gas Heat Exchangers Production Market Share by Region (2021-2032)

Figure 8. North America Marine Exhaust Gas Heat Exchangers Production (2021-2032) & (Units)

Figure 9. Europe Marine Exhaust Gas Heat Exchangers Production (2021-2032) & (Units)

Figure 10. China Marine Exhaust Gas Heat Exchangers Production (2021-2032) & (Units)

Figure 11. Japan Marine Exhaust Gas Heat Exchangers Production (2021-2032) & (Units)

Figure 12. Marine Exhaust Gas Heat Exchangers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 15. World Marine Exhaust Gas Heat Exchangers Consumption Market Share by Region (2021-2032)

Figure 16. United States Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 17. China Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 18. Europe Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 19. Japan Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 20. South Korea Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 21. ASEAN Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

Figure 22. India Marine Exhaust Gas Heat Exchangers Consumption (2021-2032) & (Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for Marine Exhaust Gas Heat Exchangers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Marine Exhaust Gas Heat Exchangers Markets in 2025

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

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

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

Figure 29. United States Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Market Share 2025

Figure 30. China Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Marine Exhaust Gas Heat Exchangers Production Market Share 2025

Figure 32. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Recovery Medium, (USD Million), 2021 & 2025 & 2032

Figure 33. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Heat Recovery Medium in 2025

Figure 34. Steam

Figure 35. Hot Water

Figure 36. Thermal Oil

Figure 37. Others

Figure 38. World Marine Exhaust Gas Heat Exchangers Production Market Share by Heat Recovery Medium (2021-2032)

Figure 39. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Heat Recovery Medium (2021-2032)

Figure 40. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Recovery Medium (2021-2032) & (K US\$/Unit)

Figure 41. World Marine Exhaust Gas Heat Exchangers Production Value by Heat

Exchanger Flow Configuration, (USD Million), 2021 & 2025 & 2032

Figure 42. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Heat Exchanger Flow Configuration in 2025

Figure 43. Smoke Tube

Figure 44. Water Tube

Figure 45. Others

Figure 46. World Marine Exhaust Gas Heat Exchangers Production Market Share by Heat Exchanger Flow Configuration (2021-2032)

Figure 47. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Heat Exchanger Flow Configuration (2021-2032)

Figure 48. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Exchanger Flow Configuration (2021-2032) & (K US\$/Unit)

Figure 49. World Marine Exhaust Gas Heat Exchangers Production Value by Heat Transfer Surface, (USD Million), 2021 & 2025 & 2032

Figure 50. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Heat Transfer Surface in 2025

Figure 51. Bare Tube

Figure 52. Finned or Gilled Tube

Figure 53. Pin Tube

Figure 54. Others

Figure 55. World Marine Exhaust Gas Heat Exchangers Production Market Share by Heat Transfer Surface (2021-2032)

Figure 56. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Heat Transfer Surface (2021-2032)

Figure 57. World Marine Exhaust Gas Heat Exchangers Average Price by Heat Transfer Surface (2021-2032) & (K US\$/Unit)

Figure 58. World Marine Exhaust Gas Heat Exchangers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Application in 2025

Figure 60. Container Ships

Figure 61. Bulk Carriers

Figure 62. Tankers

Figure 63. Gas Carriers

Figure 64. Passenger Ships and Ferries

Figure 65. Offshore and Specialized Vessels

Figure 66. Others

Figure 67. World Marine Exhaust Gas Heat Exchangers Production Market Share by Application (2021-2032)

Figure 68. World Marine Exhaust Gas Heat Exchangers Production Value Market Share by Application (2021-2032)

Figure 69. World Marine Exhaust Gas Heat Exchangers Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 70. Marine Exhaust Gas Heat Exchangers Industry Chain

Figure 71. Marine Exhaust Gas Heat Exchangers Procurement Model

Figure 72. Marine Exhaust Gas Heat Exchangers Sales Model

Figure 73. Marine Exhaust Gas Heat Exchangers Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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