

Global Exhaust Gas Recirculation (EGR) Cooler Market: Analysis By Engine Type (Diesel and Gasoline), By Vehicle Type (Commercial and Passenger), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2026

<https://marketpublishers.com/r/G82D7A0F6154EN.html>

Date: July 2022

Pages: 123

Price: US\$ 2,250.00 (Single User License)

ID: G82D7A0F6154EN

Abstracts

In 2021, the global EGR cooler market was valued at US\$534.85 million. The market is projected to reach US\$616.05 million by 2026. The Exhaust Gas Recirculation (EGR) cooler is a crucial part of car engines used to reduce Nitrous Oxide (NOx) levels. By rupturing chemical bonds in the combustion chamber of the engine, extreme heat creates new, harmful chemicals. Exhaust gas cooling reduces temperature peaks and slows the rate of combustion. The primary function of EGR coolers is to reduce nitrous oxide levels by cooling exhaust gases before they are recirculated into the engine. New emission standards introduced by the governments and international organizations is a major driver of the market. The EGR cooler market is expected to grow at a CAGR of 3.07% during the forecast period of 2022-2026.

Market Segmentation Analysis:

By Engine Type: The report identifies two segments on the basis of engine type: Diesel and Gasoline. In 2021, the diesel segment accounted for more than 70% of the market. The diesel segment held the highest share as EGR coolers are mostly used in diesel based engines. Diesel engines produces more pollutant than others. Therefore, the use of EGR coolers have increased in diesel engines. The gasoline segmet has been also increasing rapidly. Due to stringent regulations regarding new emission standars, use of EGR cooler in the gaoline engines have also increased.

By Vehicle Type: The report includes bifurcation of the market into two segments on the

basis of vehicle type: Commercial Vehicle and Passenger Vehicle. The commercial vehicle segment accounted for more than 60% share of the market. Commercial vehicle segment recorded the highest share because the engines used in commercial or heavy duty vehicles are diesel engines. In addition, due to increasing commercial activities, use of commercial vehicles has increased in the delivery processes. So, increasing use of commercial vehicles has also supported the market growth.

By Region: In this report, the global EGR Cooler market is divided into five regions: Asia Pacific, Europe, North America, Latin America and Middle East & Africa. In 2021, Asia Pacific dominated the market by occupying almost half of the share of the market. The growing automotive market in the region boosting the EGR cooler market in the region. The region comprises of countries like China, Japan, India, etc. where automobile industry contributes a large portion of the economy. Increasing car production in these regions would help the market to grow in the Asia Pacific region.

Global EGR Cooler market Dynamics

Growth Drivers: The market has been growing over the past few years, due to factors such as increasing CO₂ emissions, increasing sales of vehicles, rising demand for fuel efficient mechanism, new emission standards applied on automotive sector, etc. In developing nations, carbon dioxide emissions from burning fossil fuels have significantly increased, because industrialization is a crucial component of developing economies. Various governments around the world set emission standards to control the pollution. Due to this reason, use of EGR coolers in the automotive industry is increasing as the vehicle manufacturers need to meet the emission standards set by respective governments and international organizations. Furthermore, EGR cooler helps to enhance the fuel efficiency. Due to these factors, the market is expected to grow fast.

Challenges: However, the market has been confronted with some challenges specifically, fouling problem in EGR cooler, rising adoption of electric vehicle, etc. One of the key problems is the fouling of the EGR cooler, which is the deposition of particulate matter (PM) as a result of the thermophoretic force between the cooler wall and flow field. EGR cooler fouling decreases the heat exchanger's ability to transfer heat effectively, and increases NO_x emissions. Fouling of EGR cooler tends to be the predominant factors of EGR system failure. Furthermore, rising adoption of electric vehicles would also restrain the market growth as EVs do not require EGR coolers.

Trends: The market is projected to grow at a fast pace during the forecast period, due to various latest trends such as innovations associated with EGR Coolers, EGR cooler with bypass, etc. New exhaust gas recirculation (EGR) cooler is equipped with a bypass channel to reduce incomplete combustion and the resulting emissions of hydrocarbons and soot. The new EGR cooler's integrated bypass channel feeds exhaust gases back into the combustion chambers when the engine temperature is low. EGR cooler with bypass has the ability to enhance the performance of the vehicle. The new advancements are expected to drive the market growth.

Impact Analysis of COVID-19 and Way Forward:

The growth of the market for EGR cooler manufacturers has been restricted by the global spread of the COVID-19 epidemic. Due to the worldwide closure of manufacturing facilities in the first two quarter of 2020, sales of exhaust gas recirculation coolers fell precipitously. The governments of many nations implemented lockdowns. Although the performance of the key participants in the EGR cooler industry has been held down by the closure of production facilities and a lack of workers. The absence of vehicle movement had a significant impact on the transportation industry.

The first half of 2020 saw a considerable decline in the EGR market. However, the pandemic accelerated the need for emission-free transportation, particularly in industrialized nations like China, Europe, and the US. EGR cooler began receiving a lot of attention as governments around the world consider how to recover from the pandemic with an economy that is stronger and more resilient than it was before.

Competitive Landscape:

The EGR cooler market is concentrated. Global players have strong dominance in the market, however, domestic players like KORENS Co., Ltd. has been a pioneer in the field of EGR cooler.

The key players of the global EGR cooler market are:

BorgWarner Inc.

Senior plc (Senior Flexonics)

Rheinmentall AG (Rheinmentall Automotive AG)

MAHLE

Denso Corporation

Faurecia SE

Benteler international AG

Valeo S.A.

Hanon Systems

Tokyo Radiator MFG. Co. Ltd

KORENS Co., Ltd.

Tokyo Roki Co., Ltd

Contents

1. EXECUTIVE SUMMARY

2. INTRODUCTION

2.1 EGR Cooler: An Overview

2.1.1 Benefits of EGR Cooler

2.2 EGR Cooler Segmentation: An Overview

2.2.1 EGR Cooler Segmentation

3. GLOBAL MARKET ANALYSIS

3.1 Global EGR Cooler Market: An Analysis

3.1.1 Global EGR Cooler Market by Value

3.1.2 Global EGR Cooler Market by Engine Type (Diesel and Gasoline)

3.1.3 Global EGR Cooler Market by Vehicle Type (Commercial and Passenger)

3.1.4 Global EGR Cooler Market by Region (Asia Pacific, Europe, North America, Latin America and Middle east and Africa)

3.2 Global EGR Cooler Market: Engine Type Analysis

3.2.1 Global Diesel EGR Cooler Market by Value

3.2.2 Global Gasoline EGR Cooler Market by Value

3.3 Global EGR Cooler Market: Vehicle Type Analysis

3.3.1 Global Commercial Vehicle EGR Cooler Market by Value

3.3.2 Global Passenger Vehicle EGR Cooler Market by Value

4. REGIONAL MARKET ANALYSIS

4.1 Asia Pacific EGR Cooler Market: An Analysis

4.1.1 Asia Pacific EGR Cooler Market by Value

4.1.2 Asia Pacific EGR Cooler Market by Region (China, Japan, India, South Korea and Rest of Asia Pacific)

4.1.3 China EGR Cooler Market by Value

4.1.4 China EGR Cooler Market by Engine Type (Diesel and Gasoline)

4.1.5 China Diesel EGR Cooler Market by Value

4.1.6 China Gasoline EGR Cooler Market by Value

4.1.7 China EGR Cooler Market by Vehicle Type (Commercial and Passenger)

4.1.8 China Commercial Vehicle EGR Cooler Market by Value

4.1.9 China Passenger EGR Cooler Market by Value

- 4.1.10 Japan EGR Cooler Market by Value
- 4.1.11 India EGR Cooler Market by Value
- 4.1.12 South Korea EGR Cooler Market by Value
- 4.1.13 Rest of Asia Pacific EGR Cooler Market by Value
- 4.2 Europe EGR Cooler Market: An Analysis
 - 4.2.1 Europe EGR Cooler Market by Value
 - 4.2.2 Europe EGR Cooler Market by Region (Germany, France, UK, Italy and Rest of Europe)
 - 4.2.3 Germany EGR Cooler Market by Value
 - 4.2.4 France EGR Cooler Market by Value
 - 4.2.5 UK EGR Cooler Market by Value
 - 4.2.6 Italy EGR Cooler Market by Value
 - 4.2.7 Rest of Europe EGR Cooler Market by Value
- 4.3 North America EGR Cooler Market: An Analysis
 - 4.3.1 North America EGR Cooler Market by Value
 - 4.3.2 North America EGR Cooler Market by Region (The US, Mexico and Canada)
 - 4.3.3 The US EGR Cooler Market by Value
 - 4.3.4 The US EGR Cooler Market by Engine Type (Diesel and Gasoline)
 - 4.3.5 The US Diesel EGR Cooler Market by Value
 - 4.3.6 The US Gasoline EGR Cooler Market by Value
 - 4.3.7 The US EGR Cooler Market by Vehicle Type (Commercial and Passenger)
 - 4.3.8 The US Commercial Vehicle EGR Cooler Market by Value
 - 4.3.9 The US Passenger Vehicle EGR Cooler Market by Value
 - 4.3.10 Mexico EGR Cooler Market by Value
 - 4.3.11 Canada EGR Cooler Market by Value
- 4.4 Latin America EGR Cooler Market: An Analysis
 - 4.4.1 Latin America EGR Cooler Market by Value
 - 4.4.2 Latin America EGR Cooler Market by Region (Brazil, Argentina and Rest of Latin America)
 - 4.4.3 Brazil EGR Cooler Market by Value
 - 4.4.4 Argentina EGR Cooler Market by Value
 - 4.4.5 Rest of Latin America EGR Cooler Market by Value
- 4.5 Middle East and Africa EGR Cooler Market: An Analysis
 - 4.5.1 Middle East and Africa EGR Cooler Market by Value

5. IMPACT OF COVID-19

- 5.1 Impact of COVID-19 on Global EGR Cooler Market
- 5.2 Post COVID-19 Impact on Global EGR Market

6. MARKET DYNAMICS

6.1 Growth Drivers

- 6.1.1 Increasing CO₂ Emissions
- 6.1.2 Increasing sales of Vehicles
- 6.1.3 Rising Demand for Fuel Efficient Mechanism
- 6.1.4 New Emission Standards Applied on Automotive Sector

6.2 Challenges

- 6.2.1 Fouling problem in EGR Cooler
- 6.2.2 Rising Adoption of Electric Vehicle

6.3 Market Trends

- 6.3.1 Innovations Associated with EGR Coolers
- 6.3.2 EGR Cooler with Bypass

7. COMPETITIVE LANDSCAPE

7.1 Global EGR Cooler Market Players by Products and Services Comparison

8. COMPANY PROFILES

8.1 BorgWarner Inc.

- 8.1.1 Business Overview
- 8.1.2 Operating Segments
- 8.1.3 Business Strategy

8.2 Senior Plc (Senior Flexonics)

- 8.2.1 Business Overview
- 8.2.2 Operating Segment
- 8.2.3 Business Strategy

8.3 Rheinmentall AG (Rheinmentall Automotive AG)

- 8.3.1 Business Overview
- 8.3.2 Operating Segments
- 8.3.3 Business Strategy

8.4 MAHLE

- 8.4.1 Business Overview
- 8.4.2 Operating Segments
- 8.4.3 Business Strategy

8.5 Denso Corporation

- 8.5.1 Business Overview

- 8.5.2 Operating Region
- 8.5.3 Business Strategy
- 8.6 Faurecia SE
 - 8.6.1 Business Overview
 - 8.6.2 Business Segment
 - 8.6.3 Business Strategy
- 8.7 Benteler International AG
 - 8.7.1 Business Overview
 - 8.7.2 Business Segment
 - 8.7.3 Business Strategy
- 8.8 Valeo S.A.
 - 8.8.1 Business Overview
 - 8.8.2 Business Groups
 - 8.8.3 Business Strategy
- 8.9 Hanon Systems
 - 8.9.1 Business Overview
 - 8.9.2 Operating Regions
 - 8.9.3 Business Strategy
- 8.10 Tokyo Radiator MFG. Co., Ltd
 - 8.10.1 Business Overview
 - 8.10.2 Business Strategy
- 8.11 KORENS Co., Ltd.
 - 8.11.1 Business Overview
- 8.12 Tokyo Roki Co., Ltd
 - 8.12.1 Business Overview

List Of Figures

LIST OF FIGURES

Figure 1: Benefits of EGR Cooler

Figure 2: EGR Cooler Market Segmentation

Figure 3: Global EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 4: Global EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 5: Global EGR Cooler Market by Engine Type; 2021 (Percentage, %)

Figure 6: Global EGR Cooler Market by Vehicle Type; 2021 (Percentage, %)

Figure 7: Global EGR Cooler Market by Region; 2021 (Percentage, %)

Figure 8: Global Diesel EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 9: Global Diesel EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 10: Global Gasoline EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 11: Global Gasoline Engine EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 12: Global Commercial Vehicle EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 13: Global Commercial Vehicle EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 14: Global Passenger Vehicle EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 15: Global Passenger Vehicle EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 16: Asia Pacific EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 17: Asia Pacific EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 18: Asia Pacific EGR Cooler Market by Region; 2021 (Percentage, %)

Figure 19: China EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 20: China EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 21: China EGR Cooler Market by Engine Type; 2021 (Percentage, %)

Figure 22: China Diesel EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 23: China Diesel EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 24: China Gasoline EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 25: China Gasoline EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 26: China EGR Cooler Market by Vehicle Type; 2021 (Percentage, %)

Figure 27: China Commercial Vehicle EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 28: China Commercial Vehicle EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 29: China Passenger EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 30: China Passenger EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 31: Japan EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 32: Japan EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 33: India EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 34: India EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 35: South Korea EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 36: South Korea EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 37: Rest of Asia Pacific EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 38: Rest of Asia Pacific EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 39: Europe EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 40: Europe EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 41: Europe EGR Cooler Market by Region; 2021 (Percentage, %)

Figure 42: Germany EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 43: Germany EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 44: France EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 45: France EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 46: UK EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 47: UK EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 48: Italy EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 49: Italy EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 50: Rest of Europe EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 51: Rest of Europe EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 52: North America EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 53: North America EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 54: North America EGR Cooler Market by Region; 2021 (Percentage, %)

Figure 55: The US EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 56: The US EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 57: The US EGR Cooler Market by Engine Type; 2021 (Percentage, %)

Figure 58: The US Diesel EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 59: The US Diesel EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 60: The US Gasoline EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 61: The US Gasoline EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 62: The US EGR Cooler Market by Vehicle Type; 2021 (Percentage, %)

Figure 63: The US Commercial Vehicle EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 64: The US Commercial Vehicle EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 65: The US Passenger Vehicle EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Million)

Figure 66: The US Passenger Vehicle EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 67: Mexico EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 68: Mexico EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 69: Canada EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 70: Canada EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 71: Latin America EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 72: Latin America EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 73: Latin America EGR Cooler Market by Region; 2021 (Percentage, %)

Figure 74: Brazil EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 75: Brazil EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 76: Argentina EGR Cooler Market by Value; 2020-2021 (US\$ Million)

Figure 77: Argentina EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 78: Rest of Latin America EGR Cooler Market by Value; 2020-2021 (US\$ Thousand)

Figure 79: Rest of Latin America EGR Cooler Market by Value; 2022-2026 (US\$ Thousand)

Figure 80: Middle East and Africa EGR Cooler Market by Value; 2017-2021 (US\$ Million)

Figure 81: Middle East and Africa EGR Cooler Market by Value; 2022-2026 (US\$ Million)

Figure 82: China CO₂ Emission from Fossil Fuels; 2016-2020 (Billion Tonnes)

Figure 83: Global Number of Car Sold; 2020-2022 (Million Units)

Figure 84: BorgWarner Inc. Net Sales by Segments; 2021 (Percentage, %)

Figure 85: Senior plc. Total Revenue by Segments; 2021 (Percentage, %)

Figure 86: Rheinmentall AG Sales by Segment; 2021 (Percentage, %)

Figure 87: MAHLE Sales by Segment; 2021 (Percentage, %)

Figure 88: DENSO Corporation Revenue by Segment; 2021 (Percentage, %)

Figure 89: Faurecia SE Sales by segment; 2021 (Percentage, %)

Figure 90: Benteler International AG Sales by segment; 2021 (Percentage, %)

Figure 91: Valeo S.A. Sales by Business Group; 2021 (Percentage, %)

Figure 92: Hanon Systems Revenue by Region; 2021 (Percentage, %)

Table 1: Global EGR Cooler Market Players by Focus Products and Services Comparison

I would like to order

Product name: Global Exhaust Gas Recirculation (EGR) Cooler Market: Analysis By Engine Type (Diesel and Gasoline), By Vehicle Type (Commercial and Passenger), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2026

Product link: <https://marketpublishers.com/r/G82D7A0F6154EN.html>

Price: US\$ 2,250.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G82D7A0F6154EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970