

# Global BOG Heat Exchanger Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G75C8BECA00FEN.html>

Date: September 2026

Pages: 105

Price: US\$ 4,480.00 (Single User License)

ID: G75C8BECA00FEN

## Abstracts

The global BOG Heat Exchanger market size is expected to reach \$ 175 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

BOG heat exchangers are cryogenic heat exchange devices specifically designed for use during the storage, transport, and processing of liquefied natural gas (LNG) and other cryogenic liquefied gases. They perform functions such as heating, cooling, condensing, re-liquefying, or providing inter-stage cooling for compressors regarding the boil-off gas naturally generated in storage tanks. Their core function is to control the temperature and phase state of the BOG through heat exchange, working in conjunction with compressors, re-liquefaction units, or fuel supply systems to recover and utilize BOG. This minimizes losses from direct venting or flaring while maintaining stable pressure within LNG storage tanks. Key applications include LNG carriers, LNG-fueled vessels, onshore LNG terminals, Floating Storage and Regasification Units (FSRUs), Floating Liquefied Natural Gas (FLNG) facilities, as well as small-scale LNG and LNG bunkering facilities.

The upstream segment of the industry chain primarily comprises cryogenic stainless steels (such as 316L), aluminum alloys, and nickel-based specialty alloys, as well as the materials and components used to manufacture Printed Circuit Heat Exchangers (PCHE), plate-fin heat exchangers (PFHE), and cryogenic shell-and-tube heat exchangers—including metal sheets, micro-channel cores, diffusion bonding and brazing materials, cryogenic pipe fittings, valves, and insulation materials. The midstream segment encompasses cryogenic thermal design, flow channel optimization, plate etching or fin processing, diffusion bonding or vacuum brazing, cold box integration, pressure and leak testing, and system matching with BOG compressors and control systems. The downstream segment covers LNG carriers, LNG-powered vessels, LNG

terminals, FSRUs, FLNGs, small-scale LNG facilities, and LNG bunkering facilities, where these exchangers perform functions such as BOG cooling, condensation, reliquefaction, and heating, as well as inter-stage and after-cooling for compressors. In terms of profitability, major enterprises typically report gross margins ranging from 25% to 45%.

Regarding regional markets, the Asia-Pacific region—led by South Korea, China, and Japan—concentrates the global shipbuilding capacity for LNG carriers and large gas carriers; the European market relies on LNG equipment technology, shipowners, and terminals based in countries such as France, Germany, and Norway; and the North American market is primarily driven by LNG liquefaction and export terminals in the US and Canada, alongside the marine fuel market. Looking ahead, BOG heat exchanger technology will evolve in two main directions: first, a shift toward compact cryogenic structures—such as PCHE and high-efficiency PFHE—to increase heat transfer area density and reduce equipment weight within the limited space available on ships; second, as new LNG carriers place greater emphasis on controlling cargo loss and methane emissions, BOG handling will move beyond simple combustion or use as engine fuel toward high-ratio or even full reliquefaction, thereby increasing the value of main heat exchangers and cold boxes. Overall, the BOG heat exchanger market is a specialized sector closely linked to the global LNG fleet and cryogenic infrastructure; future growth will be driven by the expansion of the LNG fleet, increased penetration of BOG reliquefaction systems, the proliferation of terminals and floating LNG facilities, and stricter requirements for methane emission control.

## Report Scope

This report studies the global BOG Heat Exchanger production, demand, key manufacturers, and key regions.

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

## Highlights and key features of the study

Global BOG Heat Exchanger total production and demand, 2021-2032, (Units)

Global BOG Heat Exchanger total production value, 2021-2032, (USD Million)

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

Global BOG Heat Exchanger consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: BOG Heat Exchanger domestic production, consumption, key domestic manufacturers and share

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

Global BOG Heat Exchanger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global BOG Heat Exchanger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global BOG Heat Exchanger 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, DongHwa Entec, Cryostar, Air Liquide, Chiyoda Corporation, Hangzhou Shenshi Energy Conservation Technology, 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 BOG Heat Exchanger 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 BOG Heat Exchanger Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global BOG Heat Exchanger Market, Segmentation by Type:**

Plate-Type

Plate-Fin Type

Shell-And-Tube Type

### **Global BOG Heat Exchanger Market, Segmentation by Main Material:**

Stainless Steel

Aluminum Alloy

Nickel-Based Alloy

Other Special Alloy

## **Global BOG Heat Exchanger Market, Segmentation by Application:**

LNG Carrier

Onshore LNG Terminal

FLNG Facilities

Others

## **Companies Profiled:**

Alfa Laval

DongHwa Entec

Cryostar

Air Liquide

Chiyoda Corporation

Hangzhou Shenshi Energy Conservation Technology

## **Key Questions Answered**

1. How big is the global BOG Heat Exchanger market?

2. What is the demand of the global BOG Heat Exchanger market?
3. What is the year over year growth of the global BOG Heat Exchanger market?
4. What is the total value of the global BOG Heat Exchanger market?
5. Who are the Major Players in the global BOG Heat Exchanger market?
6. What are the growth factors driving the market demand?

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