

# Global CO2 Heat Pump Hot Water Supply Systems Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global CO2 Heat Pump Hot Water Supply Systems market size will reach 2,782.94 Million USD in 2025 and is projected to reach 4,665.35 Million USD by 2032, with a CAGR of 7.66% (2025-2032). Notably, the China CO2 Heat Pump Hot Water Supply Systems market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

CO2 heat pump hot water supply systems are innovative and energy-efficient water heating systems that use carbon dioxide (CO2) as the refrigerant instead of traditional synthetic refrigerants like hydrofluorocarbons (HFCs). These systems utilize a heat pump technology to extract heat from the ambient air, even in colder climates, and transfer it to the water to heat it. The CO2 heat pump operates in a transcritical cycle, meaning it works above the critical point of CO2, where the refrigerant transitions between liquid and gas phases without the need for an additional phase change. This makes it more energy-efficient and suitable for delivering hot water even in colder conditions. CO2 heat pump hot water supply systems offer several advantages, including lower operating costs, reduced greenhouse gas emissions, and excellent energy performance. They are increasingly gaining popularity as a sustainable and environmentally friendly solution for residential and commercial hot water heating needs.

The major global manufacturers of CO2 Heat Pump Hot Water Supply Systems include DENSO, Sanden, Mitsubishi, Nihon Itomic, Daikin, AAON, DunAn Group, Sujing Group, enEX, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of CO2 Heat Pump Hot Water Supply Systems. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global CO2 Heat Pump Hot Water Supply Systems market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the CO2 Heat Pump Hot Water Supply Systems market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of CO2 Heat Pump Hot Water Supply Systems industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

**Global Key Manufacturers of CO2 Heat Pump Hot Water Supply Systems Include:**

DENSO

Sanden

Mitsubishi

Nihon Itomic

Daikin

AAON

DunAn Group

Sujing Group

enEX

CO2 Heat Pump Hot Water Supply Systems Product Segment Include:

Air Source

Water Source

Others

CO2 Heat Pump Hot Water Supply Systems Product Application Include:

Residential

Industrial

Commercial

## **Chapter Scope**

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