

Transcritical CO2 Systems Market Size, Share & Trends Analysis Report By Function (Refrigeration, Heating, Air Conditioning), By Application (Retail, Heat Pumps), And Segment Forecasts, 2020 - 2027

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Abstracts

Transcritical CO2 Systems Market Growth & Trends

The global transcritical CO2 systems market size is expected to reach USD 110.43 billion by 2027, according to a new report by Grand View Research, Inc., registering a CAGR of 16.9% from 2020 to 2027. The market growth is attributed to rising demand for air conditioning and refrigeration applications, along with lower operational costs associated with transcritical CO2 systems.

The market is driven by looming taxation and inexorable F-gases restrictions across the globe. In addition, the system's low global warming potential, significantly smaller copper piping system, and less refrigerant charge in comparison to HFC systems, along with high energy efficiency in most climates, are anticipated to further stimulate the market growth over the coming years.

Refrigeration systems account for around 50% of the energy consumption of a supermarket according to the U.S. Department of Energy as they use HFCs, which have higher GWPs compared to natural refrigerants. Due to federal, international, and local regulations, HFC-free systems are gaining popularity, which is anticipated to boost the product demand over the next few years.

The required global phase-out of HCFCs, need to manage the lifetime operation of HCFC and CFC based equipment, and rising concerns regarding global warming are boosting the market growth. Moreover, rising demand for CO2 as an alternative on

account of its high energy performance and same technical reliability as HFC-134a is anticipated to stimulate the market growth over the forecast period.

Transcritical CO2 Systems Market Report Highlights

By function, the refrigeration segment held the largest revenue share of 67.3% in 2019 on account of the global phase-down of HFCs with the Kigali Amendment coming into effect in 2019

By function, the retail segment accounted for the largest share of 55.8% in 2019 owing to growing trend of green consumerism, which has propelled supermarkets to proactively use environmental best practices in order to build their green credentials

Heat pumps are expected to register the fastest CAGR of 18.8% from 2020 to 2027 as they offer high service temperature and limited capacity loss. In addition, increasing use of these pumps across the residential and commercial sectors is driving the segment

Europe accounted for the largest share of 78.4% in 2019 owing to the stringent regulatory scenario, growing demand for CO2 air conditioning systems in passenger cars, and increasing number of supermarkets in east European countries

Key players in the market are collaborating with other manufacturers to gain a competitive advantage in order to use advanced technologies in the field and establish a strong foothold in the industry space.

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