

Brine Concentration Technology (BCT) Market by Type (Calcium chloride, Sodium chloride, Zinc calcium bromide, Cesium formate), Technology (High energy reverse osmosis, Mechanical vapor compression), Application, and Region - Global Forecast to 2027

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Abstracts

The brine concentration technology market is projected to reach USD 21.1 billion in 2027 at a CAGR of 6.0% during the forecast period. The increasing use of brine concentration technology in processing different chemicals drives the market. In addition, the mining industry produces a huge amount of wastewater that needs proper treatment before disposal to reduce the environmental impact. Brine concentration technology is used to treat wastewater and extract any valuable metals and dissolved solids from the wastewater, thus reducing the waste generated.

“Mechanical vapor compression technology accounts for the second-largest market share in 2022”

Mechanical vapor compression technology is used for a wide range of processes like desalination, ethanol production, chemical processing, and refrigeration, among others. The advantage of using this technology is its efficiency and low operating cost. It can be used to separate a wide range of solvents, making it versatile. In addition, it has a minimal environmental impact since it does not require any solvent or chemicals and hence does not produce any waste or emission. Companies such as Veolia Water Technologies and IDE Technologies are using this technology, increasing market demand.

“Sodium chloride is expected to be the second-fastest growing type for brine concentration technology market during the forecast period, in terms of value.”

Sodium chloride is used in various processes, including food seasoning, water softening, de-icing, and chemical production. It is also used in the medical industry for intravenous injections, animal nutrition, and oil and gas drilling. It has its uses in the textile and tanning industry and is used for making fertilizers. These are the driving factors for the growing demand.

“Based on region, Asia Pacific was the largest market for brine concentration technology in 2022, in terms of value.”

Asia Pacific was the largest market for global brine concentration technology, in terms of value, in 2021. The market in Asia Pacific is driven by innovation, namely industrial expansion and technological developments, along with the increasing environmental impact and water scarcity in the region. The improving global economy is expected to boost market growth. China is a dominant market player in the Asia Pacific for the brine concentration technology market. However, the high use of brine concentration technology in various regional end-use industries will make the Indian market witness high growth during the forecast period.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 - 30%

By Designation: C-Level - 20%, Director Level - 10%, and Others - 70%

By Region: Asia Pacific - 30%, Europe - 30%, North America - 20%, Middle East & Africa-10%, and South America-10%

The key players in this market Veolia Water Technologies(France), Evoqua Water Technologies(US), H2O Innovations (Canada), Aquatech International LLC(US),Koch Separation Solutions(US), Aquachem (US), IDE Technologies(Israel),Saltworks Technologies (Canada), Samco Technologies (US), Gradiant (US).

Research Coverage

Brine Concentration Technology (BCT) Market by Type (Calcium chloride, Sodium chloride, Zinc calcium bromide,...

This report segments the market for brine concentration technology market on the basis of technology, type, application, and region. It provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for brine concentration technology market.

Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the brine concentration technology market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on brine concentration technology market offered by top players in the global brine concentration technology market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the brine concentration technology market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for the brine concentration technology market across regions.

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global brine concentration technology market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the brine concentration technology market.

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