

Global Electrical Enclosures Market Report and Forecast 2024-2032

Market Report | 2024-02-15 | 160 pages | EMR Inc.

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Report description:

Global Electrical Enclosures Market Report and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the global electrical enclosures market reached a value of USD 7.55 billion in 2023. Aided by the escalating demand for energy, the proliferation of advanced electronics, and the imperative for stringent safety standards in electrical installations, the market is projected to further grow at a CAGR of 5.6% between 2024 and 2032 to reach a value of USD 12.44 billion by 2032.

Electrical enclosures, essentially, are protective cabinets designed to house electrical components such as switches, knobs, and displays, safeguarding them from environmental hazards, unauthorised access, and potential damage. These enclosures are crafted from various materials, including metals like steel and aluminium, as well as non-metallic options such as polycarbonate and fiberglass, each selected based on the specific requirements of the environment in which they are deployed. Their role is pivotal in muscle growth and tissue repair of the electrical and electronics landscape, mirroring the nutritional and protective properties of casein in the food and pharmaceutical industries.

The surge in industrial automation, renewable energy projects, and infrastructure development across the globe is fuelling the electrical enclosures market demand. As industries embrace automation to enhance productivity and efficiency, the need for enclosures that can withstand harsh industrial environments, prevent ingress of dust and moisture, and offer protection against mechanical impact is more pronounced than ever. Moreover, the global shift towards renewable energy sources and the expansion of power distribution networks underscore the necessity for electrical enclosures that can ensure longevity and reliability of the equipment they house.

Innovation and technological advancement are at the heart of the electrical enclosures market growth. Manufacturers are increasingly focusing on developing enclosures with improved design, enhanced material properties, and smart features such as integrated cooling systems and IoT connectivity. These innovations not only enhance the performance and functionality of the enclosures but also facilitate real-time monitoring and maintenance, thereby minimising downtime and operational costs.

The regulatory landscape also influences the electrical enclosures market outlook. Stringent regulations and standards regarding electrical safety, equipment protection, and environmental impact guide the design, manufacturing, and installation of electrical enclosures. Compliance with international standards such as IP (Ingress Protection) ratings, NEMA (National Electrical

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Manufacturers Association) standards, and UL (Underwriters Laboratories) certifications is crucial for manufacturers to ensure their products meet the highest safety and quality benchmarks.

Market Segmentation

The market can be divided based on material type, mounting type, form factor, product type, industry vertical, and region.

Market Breakup by Material Type

- Metallic
- Non-Metallic

Market Breakup by Mounting Type

- Wall-Mounted Enclosure
- Floor-Mounted/Free-Standing Enclosure
- Underground Electric Enclosure

Market Breakup by Form Factor

- Small Enclosures
- Compact Electric Enclosures
- Full-Size Electric Enclosures

Market Breakup by Product Type

- Drip-Tight
- Hazardous Environment
- Flame/Explosion Proof
- Dust-Tight
- Others

Market Breakup by Industry Vertical

- Power Generation and Distribution
- Oil and Gas
- Metal and Mining
- Transportation
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global electrical enclosures market. Some of the major players explored in the report by Expert Market Research are as follows:

- ABB Ltd.
- Schneider Electric SE
- Eaton Corporation Plc
- Emerson Electric Co.
- RITTAL GmbH & Co. KG
- Hubbell Incorporated
- Scott Fetzer Company (Adalet)
- nVent Electric Plc
- Hammond Manufacturing Company Limited
- SOCOME, Inc.

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