

Harmonic Filter Market by Type (Active Harmonic Filter and Passive Harmonic Filter), by Voltage Level Type (Low-Voltage Harmonic Filter, Medium-Voltage Harmonic Filter, and High-Voltage Harmonic Filter), by Phase Type (Single-Phase Harmonic Filter and Three-Phase Harmonic Filter), by End-User Type (Manufacturing, Metal Processing, Pulp & Paper, Data & IT Center, Oil & Gas, and Others), and by Region (North America, Europe, Asia-Pacific, and RoW) Trend, Forecast, Competitive Analysis, and Growth Opportunity: 2018-2023

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Abstracts

This report, from Stratview Research, studies the global harmonic filter market over the trend period from 2012 to 2017 and the forecast period from 2018 to 2023. The report provides detailed insights into the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

The Global Harmonic Filter Market: Highlights

Heavy electric machines generate huge non-linear loads which create a lot of harmonics in the electrical power system. Harmonics are periodic, sinusoidal and integer multiples of the fundamental frequency (50Hz or 60Hz), current or voltage components, present in the nonsinusoidal waveform. Non-linear loads are the root cause for the generation of harmonics. Heavy industrial applications, such as arc furnaces, large variable frequency drives (VFDs), and heavy rectifiers for electrolytic

refining, generate a lot of harmonics due to significant non-linear loads. Harmonic filter is the most suitable component that safeguards electronics and improves power quality factor. Nowadays, apart from industrial, various commercial applications, such as data & IT centers, hospitals, and commercial complexes, are also creating a huge concern of mitigating harmonic distortions.

The global harmonic filter market is projected to grow at a healthy rate over the next five years to reach an estimated value of US\$ 1,059.1 million in 2023. Increasing use of power electronics that basically operates through electronic switching, increasing levels of harmonic distortions of voltage and current waveforms in power systems, increasing usage of variable frequency drives (VFDs), rising demand from the data centers and IT industries, increasing number of metal arc furnaces worldwide, increasing concern for potential damage from power frequency variations, and increasing use of sensitive electronics in industrial automation process are some of the factors burgeoning the growth of harmonic filters worldwide.

The market is segmented based on the filter type as passive harmonic filter and active harmonic filter. Passive harmonic filter is likely to remain the most dominant filter type in the market during the forecast period. Passive filters are best suitable for constant loads, as they eliminate or bypass lower order fixed harmonics of current or voltage by tuning passive filters at the resonance frequency. However, active harmonic filter is likely to be the faster-growing filter type segment of the market, owing to its superior harmonic elimination factor as it doesn't get easily overloaded even if reaches its limit.

Based on the voltage level type, the market is segmented as low-voltage, medium-voltage, and high-voltage harmonic filter. Low-voltage harmonic filter is projected to remain the largest segment of the market during the forecast period from 2018 to 2023. Whereas, medium-voltage harmonic filter, another considerable segment, is likely to grow at an impressive rate in the market during the same period.

Based on the phase type, the market is segmented as single-phase harmonic filter and three-phase harmonic filter. Three-phase harmonic filter is projected to maintain its dominance in the market over the next five years. The segment is also likely to grow at an impressive rate in the market during the same period, owing to its diversified usage in high-end industrial applications, such as manufacturing and metal processing, as well as in commercial applications, such as data and IT center, malls, and airports

Based on the end-user type, the market is classified as manufacturing, metal processing, paper & pulp, data & IT center, oil & gas, and others. The manufacturing

segment is likely to remain the most dominant end-user type in the market during the forecast period. The manufacturing segment majorly includes cement, pharmaceutical, power plants, steel, foundries, and chemical industries. The industrial sector is the major generator of variable speed drives (VSDs) in which manufacturing is a big contributor. VSDs inject harmonics and create a power-quality problem in industrial power-supply distribution.

In terms of regions, North America is projected to remain the largest harmonic filter market during the forecast period. The USA is the growth engine of the North American market, driven by the presence of major players of harmonic filters as well as end-use industries. Asia-Pacific is likely to be the fastest-growing harmonic filter market during the forecast period, driven by China, India, and Japan.

The supply chain of this market comprises raw material suppliers, component manufacturers, harmonic filter manufacturers, distributors, and end users. Some of the key companies supplying harmonic filters are ABB Ltd., Schneider Electric SA, Eaton Corporation Plc, Danfoss Group, Schaffner Holding AG, Siemens AG, TDK Corporation, AVX Corporation, Comsys AB, and TCI, LLC. Advancement in harmonic filters and regional expansion are some of the key strategies adopted by the major players in order to quickly gain market share.

Research Methodology

This report offers high-quality insights and is the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 1,000 authenticated secondary sources, such as company annual reports, fact book, press release, journals, investor presentation, white papers, patents, and articles, have been leveraged to gather the data. We conducted about 14 detailed primary interviews with the market players across the value chain in all four regions and industry experts to obtain both qualitative and quantitative insights.

Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are the key features of the report:

Market structure: Overview, industry life cycle analysis, supply chain analysis

Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis

Market trend and forecast analysis

Market segment trend and forecast

Competitive landscape and dynamics: Market share, Product portfolio, New product launches, etc.

Attractive market segments and associated growth opportunities

Emerging trends

Strategic growth opportunities for the existing and new players

Key success factors

The global harmonic filter market is segmented into the following categories.

Harmonic Filter Market, By Filter Type

Active Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Passive Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Harmonic Filter Market, By Voltage Level Type

Low-Voltage Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Medium-Voltage Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

High-Voltage Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Harmonic Filter Market, By Phase Type

Single-Phase Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Three-Phase Harmonic Filter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Harmonic Filter Market, By End-user Type

Manufacturing (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Metal Processing (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Paper & Pulp (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)

Data & IT Center (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Oil & Gas (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Others (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Harmonic Filter Market, By Region

North America (Country Analysis: The USA, Canada, and Mexico)
Europe (Country Analysis: France, Germany, the UK, Russia, and Rest of Europe)
Asia-Pacific (Country Analysis: China, Japan, India, and Rest of Asia-Pacific)
Rest of the World (Country Analysis: Latin America, the Middle East, and Others)
Report Customization Options

With this detailed report, Stratview Research offers one of the following free customization options to our respectable clients:

Company Profiling

Detailed profiling of additional market players (up to three players)
SWOT analysis of key players (up to three players)
Market Segmentation

Current market segmentation of any one of the application types by filter type
Competitive Benchmarking

Benchmarking of key players on the following parameters: Product portfolio, geographical reach, regional presence, and strategic alliances
Custom Research: Stratview research offers custom research services across sectors. In case of any custom research requirement related to market assessment, competitive benchmarking, sourcing and procurement, target screening, and others, please send your inquiry at sales@stratviewresearch.com

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