

Global Innovations in Air Purification Technology

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Abstracts

The global air purification systems market is expected to reach a value of around USD 21 billion by 2020. The growth is largely due to the impact from rising pollution levels, increasing health consciousness and burgeoning disposable incomes of global consumers. The driving factors for the need of air purifiers are majorly to counter allergens, dust & dander, smoke & odours and asthma.

The growth of air purification technology is globally led by the Asian economies particularly S. Korea, China and India. Specifically, residential sector is likely to see robust growth during the coming 5 years due to technological advancements.

Filtration technology is broadly classified under filter less and filter based equipment. The filter- based technology comprises of HEPA based, activated carbon based, nano-particle integrated filters, ion & ozone, electrostatic precipitation, Ultra- efficient Formaldehyde Catalytic oxidation, plasma cluster technology.

While this segment has witnessed increasing innovation, HEPA continues to be the leading air purification technology and would dominate the market till 2020. In the field of filter less air purification technologies majorly electrostatic and radical/ ion based technologies would witness growth. Recently there is research & development and market entry of plant based air purifiers.

Global air purifier key players include; Panasonic, Sharp, Whirlpool, Philips, Honeywell, Electrolux, Blueair, Coway and Daikin, apart from these there are numerous start- ups and research associations developing innovative air purification systems for residential purposes.

This technology landscaping report covers recently developed and in- development air purification technology, devices and filter materials from companies and research

institutes across the globe. The SkyQuest team has assimilated in- depth understanding of the global market pertaining to market size, factors affecting consumer purchases, key players and recent research & development at institutes and organizations. This report gives an overview on benefits and limitations about the core of each technology.

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