

# Global Pneumatic Waste Management System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

<https://marketpublishers.com/r/GAA309A51A17EN.html>

Date: July 2024

Pages: 150

Price: US\$ 4,750.00 (Single User License)

ID: GAA309A51A17EN

## Abstracts

The Global Pneumatic Waste Management System Market size is estimated at USD 514 million in 2024, and is expected to reach USD 789.90 million by 2029, growing at a CAGR of 7.42% during the forecast period (2024-2029).

### Key Highlights

In view of the growing demand for smart city solutions, government initiatives promoting sustainable development, and increasing municipal solid waste generation, pneumatic waste management systems are expected to grow significantly over the next few years. Such systems offer a number of advantages, such as reducing noise and traffic congestion, improving public health and safety, and lowering greenhouse gas emissions compared to conventional waste collection methods.

These systems, aligned with sustainability objectives and the potential to benefit from public incentives, are becoming increasingly attractive as environmental regulations become more stringent. The global municipal solid waste production is expected to increase by 2050, and this is another major growth driver. By facilitating efficient waste management and reducing reliance on landfills, pneumatic waste collection systems provide a practical solution.

In July 2023, following a trip to Rome, Paris, and Barcelona, the Greater Chennai Corporation (GCC) mulled over the introduction of measures practiced by these cities to improve the solid waste management (SWM) system.

In order to allow easy disposal of waste and avoid spilling and direct contact with it,

GCC intends to install dustbins with holes in the lids and colored bands to indicate the category of waste to be disposed of. These are expected to be introduced in high-traffic areas such as beaches. For a period of 2 to 3 months, separate containers for glass bottles will also be placed on the beach. Additionally, the GCC proposed installing a weighing machine in garbage collection vehicles on a pilot basis to determine the weight generated by different users and identify bulk waste generators.

## Global Pneumatic Waste Management System Market Trends

### Europe is Expected to Witness Significant Market Growth in the Coming Years

For decades, pneumatic waste management systems have been in place throughout Europe and are considered to be an advanced technology. These systems are widespread in Scandinavia, with Sweden and Finland having the highest concentration. Waste management strategies are becoming increasingly global as the need for a more sustainable environment grows. In urban areas where there is a need to reduce traffic and pollution, pneumatic waste collection provides an alternative to traditional road haulage.

According to European sources, the cost of investing in stationary vacuum waste collection systems, excluding construction works and preliminary studies or tests, is between EUR 2.3 million (USD 2.50 million) and EUR 13.6 million (USD 14.76 million). Due to the size of the systems, these costs differ significantly. The number of inlets, the length of the network, the number of waste fractions collected, and the size of one vacuum waste collection system are adjusted according to the connected population.

The average cost per meter of pipe was EUR 1,000-3,000, and the average cost per inlet was EUR 20,000-70,000 (USD 21,706-75,974). The average investment was EUR 2,400 (USD 2,604) per dwelling and EUR 835 (USD 906) per inhabitant.

In August 2023, Envac invented a pneumatic waste collection system that moves the procedure underground and replaces manual waste collection from individual refuse chutes, dramatically reducing waste-related heavy traffic and carbon emissions. In China, a number of smart cities and hospitals have adopted this technology.

### The Demand for Pneumatic Waste Management Systems for Hospitals is Increasing

In terms of healthcare and food services, pneumatic waste systems are used to transport medical waste, food scraps, and other potentially hazardous materials. Promoting hygiene and safety contributes to the specific types of garbage managed through pneumatic systems.

In October 2023, Envac France was responsible for installing pneumatic waste collection systems in the municipalities of Issy-le-Moulineaux and Romainville, as well as in the Batignolles district of Paris. This advanced technology significantly reduces the number of conventional waste truck collection routes, resulting in an 80% reduction in NO<sub>2</sub> and CO<sub>2</sub> emissions.

In the municipalities of Issy le Quebec, which currently have two waste collection facilities in operation, Moulin and Romainville, as well as Batignolles, Envac joined forces with suppliers for sustainable urban development to install pneumatic waste management systems. In addition, a combination of over 1,500 beds is available in two operating units at Montpellier Hospital and Strasbourg Hospital.

In total, the urban facilities in the Paris Belt cover the automated waste collection service of 11,000 households, which means that more than 36,000 inhabitants benefit from an innovative waste management service that, in addition to being convenient, contributes to improving the environment in cities.

## Global Pneumatic Waste Management System Industry Overview

The pneumatic waste system market is consolidated and dominated by global players. The players are focusing on expanding their geographical presence to capture a major share of the market. Some of the key players in the market include Envac Group, Stream, MariMatic Oy, Aerbin ApS, and Logiwaste AB. They are continuously adopting strategies like mergers and acquisitions, strategic alliances, joint ventures, and partnerships to gain more market shares.

### Additional Benefits:

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