

Global Pneumatic Waste Management System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 150 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

The Global Pneumatic Waste Management System Market size is estimated at USD 552.14 million in 2025, and is expected to reach USD 789.72 million by 2030, at a CAGR of 7.42% during the forecast period (2025-2030).

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.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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 NO₂ and CO₂ 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.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Current Market Scenario
- 4.2 Technology Advancements in the Market
- 4.3 Government Regulations and Initiatives in the Market
- 4.4 Spotlight on Transport Rates
- 4.5 Value Chain/Supply Chain Analysis
- 4.6 Impact on COVID-19 on the Market

5 Market Dynamics

- 5.1 Market Drivers
 - 5.1.1 Growing Urbanization and Population
 - 5.1.2 Government Regulations and Initiatives
 - 5.1.3 Investments in Technology Advancements
- 5.2 Market Restraints
 - 5.2.1 Public Awareness and Acceptance
 - 5.2.2 Maintenance and Operational Costs
- 5.3 Market Opportunities
 - 5.3.1 Market Expansions in Developing Regions
 - 5.3.2 Adoption of Circular Economy Models
- 5.4 Industry Attractiveness - Porter's Five Forces Analysis
 - 5.4.1 Bargaining Power of Suppliers
 - 5.4.2 Bargaining Power of Consumers/Buyers
 - 5.4.3 Threat of New Entrants
 - 5.4.4 Threat of Substitute Products
 - 5.4.5 Intensity of Competitive Rivalry

6 MARKET SEGMENTATION

- 6.1 By End User
 - 6.1.1 Residential
 - 6.1.2 Commercial (Offices)
 - 6.1.3 Hospitals
 - 6.1.4 Hospitality
 - 6.1.5 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.2 By Geography
 - 6.2.1 North America
 - 6.2.1.1 United States
 - 6.2.1.2 Canada
 - 6.2.1.3 Mexico
 - 6.2.2 Europe
 - 6.2.2.1 Germany
 - 6.2.2.2 France
 - 6.2.2.3 Spain
 - 6.2.2.4 Italy
 - 6.2.2.5 Rest of Europe
 - 6.2.3 Asia-Pacific
 - 6.2.3.1 China
 - 6.2.3.2 India
 - 6.2.3.3 Japan
 - 6.2.3.4 Australia
 - 6.2.3.5 Singapore
 - 6.2.3.6 Malaysia
 - 6.2.3.7 Thailand
 - 6.2.3.8 Rest of Asia-Pacific
 - 6.2.4 Middle East and Africa
 - 6.2.4.1 Saudi Arabia
 - 6.2.4.2 Qatar
 - 6.2.4.3 United Arab Emirates
 - 6.2.4.4 Egypt
 - 6.2.4.5 Rest of MENA
 - 6.2.5 Latin America
 - 6.2.5.1 Brazil
 - 6.2.5.2 Argentina
 - 6.2.5.3 Rest of Latin America

7 COMPETITIVE LANDSCAPE

- 7.1 Market Concentration
- 7.2 Company Profiles
 - 7.2.1 ENVAC
 - 7.2.2 MARIMATIC OY
 - 7.2.3 AWC BERHAD
 - 7.2.4 Stream
 - 7.2.5 ATREO
 - 7.2.6 Ecosir Group OY
 - 7.2.7 GreenWave Solutions
 - 7.2.8 CAVERION Corporation
 - 7.2.9 Air-Log International GmbH
 - 7.2.10 LOGIWASTE AB
 - 7.2.11 AERBIN APS
 - 7.2.12 Peakway Environmental Sci & Tech Co. Ltd*
- 7.3 Other Companies

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

8 FUTURE OF THE MARKET

9 APPENDIX

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Pneumatic Waste Management System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 150 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-26"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

