

Global Silent Dust Collector Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silent Dust Collector market size was valued at US\$ 164 million in 2025 and is forecast to a readjusted size of US\$ 263 million by 2032 with a CAGR of 6.9% during review period.

In 2025, global sales of silent dust collectors reached 42,000 units, with an average selling price of US\$3,800 and a total production capacity of approximately 60,000 units per year, resulting in a gross profit margin of approximately 32%. The main upstream raw materials for this product include high-performance filter media (accounting for approximately 40% of raw material costs), high-quality carbon steel and stainless steel sheets (accounting for 35%), and motors and fan components (accounting for 25%), with major suppliers concentrated in China, Germany, and the United States.

Downstream, the main suppliers are industrial manufacturers, woodworking machinery factories, and large-scale workshop purification system integrators, accounting for 50%, 30%, and 20% of consumption, respectively. Silent dust collectors meet the needs of different industrial scenarios through vibration reduction and noise reduction, improved filtration efficiency, and modular design. The future lies in development towards intelligence, energy saving, and customization, while also integrating with the Industrial Internet of Things (IIoT) to achieve remote monitoring and operation and maintenance optimization. Market demand is steadily growing, particularly in industries such as furniture manufacturing, metal processing, and pharmaceuticals, where the increasing demand for low-noise, high-efficiency dust removal equipment brings continuous business opportunities and room for technological innovation.

The silent dust collector market is showing a steady growth trend, driven by factors such as industrial automation upgrades, increasingly stringent environmental regulations, and

rising demands for comfortable working environments. Looking at specific market segments, the furniture manufacturing, metal processing, and pharmaceutical industries have the strongest demand for low-noise, high-efficiency dust collection equipment, driving the rapid adoption of small and medium-sized silent dust collectors. Large-scale industrial applications are also seeing increasing demand for modular and intelligent dust collection systems.

From a technological perspective, intelligent monitoring, remote operation and maintenance, and energy conservation and environmental protection have become the core of differentiated competition, with both domestic and international companies increasing investment in product innovation and system integration capabilities.

Overall, the silent dust collector industry has a relatively fragmented competitive landscape, but leading companies are building barriers through technological advantages, channel integration, and after-sales service, leading to a gradual increase in market concentration. The market size is expected to maintain a compound annual growth rate of 7%-9% over the next five years, with intelligentization and customization becoming the main development directions for the industry.

This report is a detailed and comprehensive analysis for global Silent Dust Collector market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silent Dust Collector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silent Dust Collector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silent Dust Collector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silent Dust Collector market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silent Dust Collector

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silent Dust Collector market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nederman, Maxtech Engineers, Leda Machinery, DGSF Machinery, Donaldson, BOFENG, Nilfisk, WSI Machinery, Renfert, KELONG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Silent Dust Collector market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Integrated Soundproof Enclosure Type

Intake/Exhaust Muffler Type

Floating Vibration Damping Base Type

Others

Market segment by Dust Removal Technology

Cartridge Filter

Bag Filter

Wet Filter

Market segment by Sound Pressure Level

Sound Pressure Level: 65 - 70 dB(A)

Sound Pressure Level: 70 - 75 dB(A)

Others

Market segment by Application

Industrial Manufacturing

Cleanroom

Pharmaceuticals

Others

Major players covered

Nederman

Maxtech Engineers

Leda Machinery

DGSF Machinery

Donaldson

BOFENG

Nilfisk

WSI Machinery

Renfert

KELONG

FUYU

JIUTAI

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silent Dust Collector product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silent Dust Collector, with price, sales quantity, revenue, and global market share of Silent Dust Collector from 2021 to 2026.

Chapter 3, the Silent Dust Collector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silent Dust Collector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Silent Dust Collector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silent Dust Collector.

Chapter 14 and 15, to describe Silent Dust Collector sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Silent Dust Collector Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Integrated Soundproof Enclosure Type

1.3.3 Intake/Exhaust Muffler Type

1.3.4 Floating Vibration Damping Base Type

1.3.5 Others

1.4 Market Analysis by Dust Removal Technology

1.4.1 Overview: Global Silent Dust Collector Consumption Value by Dust Removal Technology: 2021 Versus 2025 Versus 2032

1.4.2 Cartridge Filter

1.4.3 Bag Filter

1.4.4 Wet Filter

1.5 Market Analysis by Sound Pressure Level

1.5.1 Overview: Global Silent Dust Collector Consumption Value by Sound Pressure Level: 2021 Versus 2025 Versus 2032

1.5.2 Sound Pressure Level: 65 - 70 dB(A)

1.5.3 Sound Pressure Level: 70 - 75 dB(A)

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Silent Dust Collector Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Industrial Manufacturing

1.6.3 Cleanroom

1.6.4 Pharmaceuticals

1.6.5 Others

1.7 Global Silent Dust Collector Market Size & Forecast

1.7.1 Global Silent Dust Collector Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Silent Dust Collector Sales Quantity (2021-2032)

1.7.3 Global Silent Dust Collector Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nederman

2.1.1 Nederman Details

2.1.2 Nederman Major Business

2.1.3 Nederman Silent Dust Collector Product and Services

2.1.4 Nederman Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Nederman Recent Developments/Updates

2.2 Maxtech Engineers

2.2.1 Maxtech Engineers Details

2.2.2 Maxtech Engineers Major Business

2.2.3 Maxtech Engineers Silent Dust Collector Product and Services

2.2.4 Maxtech Engineers Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Maxtech Engineers Recent Developments/Updates

2.3 Leda Machinery

2.3.1 Leda Machinery Details

2.3.2 Leda Machinery Major Business

2.3.3 Leda Machinery Silent Dust Collector Product and Services

2.3.4 Leda Machinery Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Leda Machinery Recent Developments/Updates

2.4 DGSF Machinery

2.4.1 DGSF Machinery Details

2.4.2 DGSF Machinery Major Business

2.4.3 DGSF Machinery Silent Dust Collector Product and Services

2.4.4 DGSF Machinery Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 DGSF Machinery Recent Developments/Updates

2.5 Donaldson

2.5.1 Donaldson Details

2.5.2 Donaldson Major Business

2.5.3 Donaldson Silent Dust Collector Product and Services

2.5.4 Donaldson Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Donaldson Recent Developments/Updates

2.6 BOFENG

2.6.1 BOFENG Details

2.6.2 BOFENG Major Business

2.6.3 BOFENG Silent Dust Collector Product and Services

2.6.4 BOFENG Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 BOFENG Recent Developments/Updates

2.7 Nilfisk

2.7.1 Nilfisk Details

2.7.2 Nilfisk Major Business

2.7.3 Nilfisk Silent Dust Collector Product and Services

2.7.4 Nilfisk Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Nilfisk Recent Developments/Updates

2.8 WSI Machinery

2.8.1 WSI Machinery Details

2.8.2 WSI Machinery Major Business

2.8.3 WSI Machinery Silent Dust Collector Product and Services

2.8.4 WSI Machinery Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 WSI Machinery Recent Developments/Updates

2.9 Renfert

2.9.1 Renfert Details

2.9.2 Renfert Major Business

2.9.3 Renfert Silent Dust Collector Product and Services

2.9.4 Renfert Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Renfert Recent Developments/Updates

2.10 KELONG

2.10.1 KELONG Details

2.10.2 KELONG Major Business

2.10.3 KELONG Silent Dust Collector Product and Services

2.10.4 KELONG Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 KELONG Recent Developments/Updates

2.11 FUYU

2.11.1 FUYU Details

2.11.2 FUYU Major Business

2.11.3 FUYU Silent Dust Collector Product and Services

2.11.4 FUYU Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 FUYU Recent Developments/Updates

2.12 JIUTAI

- 2.12.1 JIUTAI Details
- 2.12.2 JIUTAI Major Business
- 2.12.3 JIUTAI Silent Dust Collector Product and Services
- 2.12.4 JIUTAI Silent Dust Collector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 JIUTAI Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILENT DUST COLLECTOR BY MANUFACTURER

- 3.1 Global Silent Dust Collector Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Silent Dust Collector Revenue by Manufacturer (2021-2026)
- 3.3 Global Silent Dust Collector Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Silent Dust Collector by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Silent Dust Collector Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Silent Dust Collector Manufacturer Market Share in 2025
- 3.5 Silent Dust Collector Market: Overall Company Footprint Analysis
 - 3.5.1 Silent Dust Collector Market: Region Footprint
 - 3.5.2 Silent Dust Collector Market: Company Product Type Footprint
 - 3.5.3 Silent Dust Collector Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Silent Dust Collector Market Size by Region
 - 4.1.1 Global Silent Dust Collector Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Silent Dust Collector Consumption Value by Region (2021-2032)
 - 4.1.3 Global Silent Dust Collector Average Price by Region (2021-2032)
- 4.2 North America Silent Dust Collector Consumption Value (2021-2032)
- 4.3 Europe Silent Dust Collector Consumption Value (2021-2032)
- 4.4 Asia-Pacific Silent Dust Collector Consumption Value (2021-2032)
- 4.5 South America Silent Dust Collector Consumption Value (2021-2032)
- 4.6 Middle East & Africa Silent Dust Collector Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Silent Dust Collector Sales Quantity by Type (2021-2032)
- 5.2 Global Silent Dust Collector Consumption Value by Type (2021-2032)
- 5.3 Global Silent Dust Collector Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Silent Dust Collector Sales Quantity by Application (2021-2032)
- 6.2 Global Silent Dust Collector Consumption Value by Application (2021-2032)
- 6.3 Global Silent Dust Collector Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Silent Dust Collector Sales Quantity by Type (2021-2032)
- 7.2 North America Silent Dust Collector Sales Quantity by Application (2021-2032)
- 7.3 North America Silent Dust Collector Market Size by Country
 - 7.3.1 North America Silent Dust Collector Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Silent Dust Collector Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Silent Dust Collector Sales Quantity by Type (2021-2032)
- 8.2 Europe Silent Dust Collector Sales Quantity by Application (2021-2032)
- 8.3 Europe Silent Dust Collector Market Size by Country
 - 8.3.1 Europe Silent Dust Collector Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Silent Dust Collector Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Silent Dust Collector Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Silent Dust Collector Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Silent Dust Collector Market Size by Region

- 9.3.1 Asia-Pacific Silent Dust Collector Sales Quantity by Region (2021-2032)
- 9.3.2 Asia-Pacific Silent Dust Collector Consumption Value by Region (2021-2032)
- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Silent Dust Collector Sales Quantity by Type (2021-2032)
- 10.2 South America Silent Dust Collector Sales Quantity by Application (2021-2032)
- 10.3 South America Silent Dust Collector Market Size by Country
 - 10.3.1 South America Silent Dust Collector Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Silent Dust Collector Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Silent Dust Collector Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Silent Dust Collector Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Silent Dust Collector Market Size by Country
 - 11.3.1 Middle East & Africa Silent Dust Collector Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Silent Dust Collector Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Silent Dust Collector Market Drivers
- 12.2 Silent Dust Collector Market Restraints

12.3 Silent Dust Collector Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Silent Dust Collector and Key Manufacturers

13.2 Manufacturing Costs Percentage of Silent Dust Collector

13.3 Silent Dust Collector Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Silent Dust Collector Typical Distributors

14.3 Silent Dust Collector Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Silent Dust Collector Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Silent Dust Collector Consumption Value by Dust Removal Technology, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Silent Dust Collector Consumption Value by Sound Pressure Level, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Silent Dust Collector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Nederman Basic Information, Manufacturing Base and Competitors
- Table 6. Nederman Major Business
- Table 7. Nederman Silent Dust Collector Product and Services
- Table 8. Nederman Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Nederman Recent Developments/Updates
- Table 10. Maxtech Engineers Basic Information, Manufacturing Base and Competitors
- Table 11. Maxtech Engineers Major Business
- Table 12. Maxtech Engineers Silent Dust Collector Product and Services
- Table 13. Maxtech Engineers Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Maxtech Engineers Recent Developments/Updates
- Table 15. Leda Machinery Basic Information, Manufacturing Base and Competitors
- Table 16. Leda Machinery Major Business
- Table 17. Leda Machinery Silent Dust Collector Product and Services
- Table 18. Leda Machinery Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Leda Machinery Recent Developments/Updates
- Table 20. DGSF Machinery Basic Information, Manufacturing Base and Competitors
- Table 21. DGSF Machinery Major Business
- Table 22. DGSF Machinery Silent Dust Collector Product and Services
- Table 23. DGSF Machinery Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. DGSF Machinery Recent Developments/Updates
- Table 25. Donaldson Basic Information, Manufacturing Base and Competitors
- Table 26. Donaldson Major Business
- Table 27. Donaldson Silent Dust Collector Product and Services

Table 28. Donaldson Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Donaldson Recent Developments/Updates

Table 30. BOFENG Basic Information, Manufacturing Base and Competitors

Table 31. BOFENG Major Business

Table 32. BOFENG Silent Dust Collector Product and Services

Table 33. BOFENG Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. BOFENG Recent Developments/Updates

Table 35. Nilfisk Basic Information, Manufacturing Base and Competitors

Table 36. Nilfisk Major Business

Table 37. Nilfisk Silent Dust Collector Product and Services

Table 38. Nilfisk Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Nilfisk Recent Developments/Updates

Table 40. WSI Machinery Basic Information, Manufacturing Base and Competitors

Table 41. WSI Machinery Major Business

Table 42. WSI Machinery Silent Dust Collector Product and Services

Table 43. WSI Machinery Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. WSI Machinery Recent Developments/Updates

Table 45. Renfert Basic Information, Manufacturing Base and Competitors

Table 46. Renfert Major Business

Table 47. Renfert Silent Dust Collector Product and Services

Table 48. Renfert Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Renfert Recent Developments/Updates

Table 50. KELONG Basic Information, Manufacturing Base and Competitors

Table 51. KELONG Major Business

Table 52. KELONG Silent Dust Collector Product and Services

Table 53. KELONG Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. KELONG Recent Developments/Updates

Table 55. FUYU Basic Information, Manufacturing Base and Competitors

Table 56. FUYU Major Business

Table 57. FUYU Silent Dust Collector Product and Services

Table 58. FUYU Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. FUYU Recent Developments/Updates

- Table 60. JIUTAI Basic Information, Manufacturing Base and Competitors
- Table 61. JIUTAI Major Business
- Table 62. JIUTAI Silent Dust Collector Product and Services
- Table 63. JIUTAI Silent Dust Collector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. JIUTAI Recent Developments/Updates
- Table 65. Global Silent Dust Collector Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 66. Global Silent Dust Collector Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 67. Global Silent Dust Collector Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 68. Market Position of Manufacturers in Silent Dust Collector, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 69. Head Office and Silent Dust Collector Production Site of Key Manufacturer
- Table 70. Silent Dust Collector Market: Company Product Type Footprint
- Table 71. Silent Dust Collector Market: Company Product Application Footprint
- Table 72. Silent Dust Collector New Market Entrants and Barriers to Market Entry
- Table 73. Silent Dust Collector Mergers, Acquisition, Agreements, and Collaborations
- Table 74. Global Silent Dust Collector Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 75. Global Silent Dust Collector Sales Quantity by Region (2021-2026) & (K Units)
- Table 76. Global Silent Dust Collector Sales Quantity by Region (2027-2032) & (K Units)
- Table 77. Global Silent Dust Collector Consumption Value by Region (2021-2026) & (USD Million)
- Table 78. Global Silent Dust Collector Consumption Value by Region (2027-2032) & (USD Million)
- Table 79. Global Silent Dust Collector Average Price by Region (2021-2026) & (US\$/Unit)
- Table 80. Global Silent Dust Collector Average Price by Region (2027-2032) & (US\$/Unit)
- Table 81. Global Silent Dust Collector Sales Quantity by Type (2021-2026) & (K Units)
- Table 82. Global Silent Dust Collector Sales Quantity by Type (2027-2032) & (K Units)
- Table 83. Global Silent Dust Collector Consumption Value by Type (2021-2026) & (USD Million)
- Table 84. Global Silent Dust Collector Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Silent Dust Collector Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global Silent Dust Collector Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global Silent Dust Collector Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Global Silent Dust Collector Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Global Silent Dust Collector Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Silent Dust Collector Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Silent Dust Collector Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global Silent Dust Collector Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America Silent Dust Collector Sales Quantity by Type (2021-2026) & (K Units)

Table 94. North America Silent Dust Collector Sales Quantity by Type (2027-2032) & (K Units)

Table 95. North America Silent Dust Collector Sales Quantity by Application (2021-2026) & (K Units)

Table 96. North America Silent Dust Collector Sales Quantity by Application (2027-2032) & (K Units)

Table 97. North America Silent Dust Collector Sales Quantity by Country (2021-2026) & (K Units)

Table 98. North America Silent Dust Collector Sales Quantity by Country (2027-2032) & (K Units)

Table 99. North America Silent Dust Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Silent Dust Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Silent Dust Collector Sales Quantity by Type (2021-2026) & (K Units)

Table 102. Europe Silent Dust Collector Sales Quantity by Type (2027-2032) & (K Units)

Table 103. Europe Silent Dust Collector Sales Quantity by Application (2021-2026) & (K Units)

Table 104. Europe Silent Dust Collector Sales Quantity by Application (2027-2032) & (K Units)

Table 105. Europe Silent Dust Collector Sales Quantity by Country (2021-2026) & (K Units)

Units)

Table 106. Europe Silent Dust Collector Sales Quantity by Country (2027-2032) & (K Units)

Table 107. Europe Silent Dust Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Silent Dust Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Silent Dust Collector Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Asia-Pacific Silent Dust Collector Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Asia-Pacific Silent Dust Collector Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Asia-Pacific Silent Dust Collector Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Asia-Pacific Silent Dust Collector Sales Quantity by Region (2021-2026) & (K Units)

Table 114. Asia-Pacific Silent Dust Collector Sales Quantity by Region (2027-2032) & (K Units)

Table 115. Asia-Pacific Silent Dust Collector Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Silent Dust Collector Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Silent Dust Collector Sales Quantity by Type (2021-2026) & (K Units)

Table 118. South America Silent Dust Collector Sales Quantity by Type (2027-2032) & (K Units)

Table 119. South America Silent Dust Collector Sales Quantity by Application (2021-2026) & (K Units)

Table 120. South America Silent Dust Collector Sales Quantity by Application (2027-2032) & (K Units)

Table 121. South America Silent Dust Collector Sales Quantity by Country (2021-2026) & (K Units)

Table 122. South America Silent Dust Collector Sales Quantity by Country (2027-2032) & (K Units)

Table 123. South America Silent Dust Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Silent Dust Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Silent Dust Collector Sales Quantity by Type (2021-2026) & (K Units)

Table 126. Middle East & Africa Silent Dust Collector Sales Quantity by Type (2027-2032) & (K Units)

Table 127. Middle East & Africa Silent Dust Collector Sales Quantity by Application (2021-2026) & (K Units)

Table 128. Middle East & Africa Silent Dust Collector Sales Quantity by Application (2027-2032) & (K Units)

Table 129. Middle East & Africa Silent Dust Collector Sales Quantity by Country (2021-2026) & (K Units)

Table 130. Middle East & Africa Silent Dust Collector Sales Quantity by Country (2027-2032) & (K Units)

Table 131. Middle East & Africa Silent Dust Collector Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Silent Dust Collector Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Silent Dust Collector Raw Material

Table 134. Key Manufacturers of Silent Dust Collector Raw Materials

Table 135. Silent Dust Collector Typical Distributors

Table 136. Silent Dust Collector Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Silent Dust Collector Picture

Figure 2. Global Silent Dust Collector Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Silent Dust Collector Revenue Market Share by Type in 2025

Figure 4. Integrated Soundproof Enclosure Type Examples

Figure 5. Intake/Exhaust Muffler Type Examples

Figure 6. Floating Vibration Damping Base Type Examples

Figure 7. Others Examples

Figure 8. Global Silent Dust Collector Revenue by Dust Removal Technology, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Silent Dust Collector Revenue Market Share by Dust Removal Technology in 2025

Figure 10. Cartridge Filter Examples

Figure 11. Bag Filter Examples

Figure 12. Wet Filter Examples

Figure 13. Global Silent Dust Collector Revenue by Sound Pressure Level, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Silent Dust Collector Revenue Market Share by Sound Pressure Level in 2025

Figure 15. Sound Pressure Level: 65 - 70 dB(A) Examples

Figure 16. Sound Pressure Level: 70 - 75 dB(A) Examples

Figure 17. Others Examples

Figure 18. Global Silent Dust Collector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 19. Global Silent Dust Collector Revenue Market Share by Application in 2025

Figure 20. Industrial Manufacturing Examples

Figure 21. Cleanroom Examples

Figure 22. Pharmaceuticals Examples

Figure 23. Others Examples

Figure 24. Global Silent Dust Collector Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 25. Global Silent Dust Collector Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Silent Dust Collector Sales Quantity (2021-2032) & (K Units)

Figure 27. Global Silent Dust Collector Price (2021-2032) & (US\$/Unit)

Figure 28. Global Silent Dust Collector Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Silent Dust Collector Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Silent Dust Collector by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Silent Dust Collector Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Silent Dust Collector Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Silent Dust Collector Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Silent Dust Collector Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Silent Dust Collector Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Silent Dust Collector Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Silent Dust Collector Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global Silent Dust Collector Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Silent Dust Collector Revenue Market Share by Application (2021-2032)

Figure 45. Global Silent Dust Collector Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America Silent Dust Collector Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Silent Dust Collector Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Silent Dust Collector Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Silent Dust Collector Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Silent Dust Collector Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Silent Dust Collector Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Silent Dust Collector Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Silent Dust Collector Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 58. France Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Silent Dust Collector Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Silent Dust Collector Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Silent Dust Collector Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Silent Dust Collector Consumption Value Market Share by Region (2021-2032)

Figure 66. China Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 69. India Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Silent Dust Collector Consumption Value (2021-2032) &

(USD Million)

Figure 71. Australia Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Silent Dust Collector Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Silent Dust Collector Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Silent Dust Collector Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Silent Dust Collector Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Silent Dust Collector Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Silent Dust Collector Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Silent Dust Collector Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Silent Dust Collector Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Silent Dust Collector Consumption Value (2021-2032) & (USD Million)

Figure 86. Silent Dust Collector Market Drivers

Figure 87. Silent Dust Collector Market Restraints

Figure 88. Silent Dust Collector Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Silent Dust Collector in 2025

Figure 91. Manufacturing Process Analysis of Silent Dust Collector

Figure 92. Silent Dust Collector Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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