

Technical Data Sheet

Dry Paint Booth Filter Box designed with a Venturi Structure

1. Features

- The outer shell of this filter is made of high-strength cardboard, engineered to withstand both handling and operational stresses.
- The filter contains multiple rows of special-designed paint mist collection units.
- Each collection unit has a rhombic column structure, ensuring maximum surface contact and aerodynamic performance.
- The collection units are composed of engineering-fibber reinforced by plastic frames.
- Gaps are provided between units in each row, with their long diagonals aligned for optimal airflow.
- The front and rear rows are arranged in a staggered configuration, enhancing the Venturi effect for improved mist capture.

2. Product Specification

No	Item	Technical Data	Remarks
1	Model	SENDA-03-001	Dry Paint Booth Filter Box
2	Dimensions	485×485×485mm	± 3mm (Tolerance)
3	Air Volume	≤ 1600m ³ /h	Rated 1200m ³ /h
4	Air Velocity	≤ 2m/s	NA
5	Filtration Efficiency	≤ 98%	NA
6	Over-Spray Paint Capacity	15 – 30kg	Depends on paint type
7	Pressure Drop	≤1500Pa	Max Resistance of cardboard (customized)

8	Pressure Resistance	1500Pa	NA
9	No. of Collection Units	21-44/unit	Varies with paint type
10	Layer per Unit	6-8 Layer	Varies with paint type

3. Performance Overview

This product breaks through the limitations of conventional filtration practices. By adopting an **innovative Venturi channel and mesh structure**, it achieves superior separation performance and exceptional paint-holding capacity - up to 30 kg per box. Its aerodynamic design minimizes resistance while maximizing capture efficiency, making it ideal for high-load coating operations.

4. Application

Widely used in dry spray booths, industrial coating lines, and surface finishing workshops, this system provides a low-maintenance, eco-friendly, and high-performance solution for paint mist control. It helps customers reduce environmental emissions, extend filter replacement cycles, and improve overall coating quality.