

**Nederman**

# The Silent Solution

S-Series Enclosureless Dust Collectors





# Simple & Silent

## Nederman woodworking solutions contribute to:

- Energy optimization
- Less wear on equipment
- Improved health conditions and cleaner environment
- Better end-product quality
- Recycling of wood waste

Cleaning the air is easy – just add duct. Selecting the right solution can be challenging. Discover how the Nederman S-Series makes it simple to select the right dust collector size for your wood dust application.

## Simplified Sizing Guide

Select the dust collector size appropriate to your volume and available voltage from the chart.

### Safety & NFPA Compliance

Meets NFPA 664-2012, 3.3.10.2 and 9.3.4 (7) for Enclosureless Dust Collector less than 5000 CFM for Wood Dust

Meets NFPA 654-2020, 3.3.21 and 9.13.1.1.2 (4) for Enclosureless Dust Collector less than 5000 CFM for Combustible Solids with added requirements.

*Consult standard for placement and use of the collector.*



		Number of Take Offs							
		1	2	3	4	5	6	7	8
		Total Volume Required (CFM)							
Port Size (inches)	4	400	800	1200	1600	2000	2400	2800	3200
	5	650	1300	1950	2600	3250	3900	4550	5200
	6	900	1800	2700	3600	4500	5400	6300	7200
	8	1650	3300	4950	6600	8250	9900	11550	13200
	10	2500	5000	7500	10000	12500	15000	17500	20000
	12	3500	7000	10500	14000	17500	21000	24500	28000
Port Size (inches)	14	5000	10000	15000	20000	25000	30000	35000	40000
	*Too large for any single S-Series								

\*If total air volume calculated is > 5000 CFM (gray zone), contact Nederman for options, including larger dust collector systems.



Most machines have varying port sizes. Add all ports and their recommended air volumes to calculate your air volume requirement.

Example: (Port Size A + Port Size B = Total Air Volume)

**A. 2 Take Offs @ 4" = 800 CFM**

**B. 3 Take Offs @ 6" = 2700 CFM**

**Total Air Volume = 3500 CFM**



# The S-Series

(1,500 - 5,000 CFM)

Suitable for the collection of many different types of dust including wood, paper and plastic.

## Applications:

- High Speed Routing
- Sawing
- Cutting
- Single 'Cell' Manufacturing
- After-Filters



### Features

- Three or Single Phase
- Easy Installation
- Small Footprint
- Quiet Operation
- Bag Material Collection - Barrels or Bin
- Multiple Waste Collection Options
- Patented SuperBags (99.9% Efficiency)

## The SuperBag

A filter is only as good as the filter bags it uses and this is the component that provides the filtering while allowing clean air to pass through with the least possible resistance. Therefore, the lowest possible consumption of energy is realized, even after several thousand hours of operation. Nederman patented filter bag, is fitted as the standard in all S-Series bag filters.

Collector up and running in less than 1 hour.

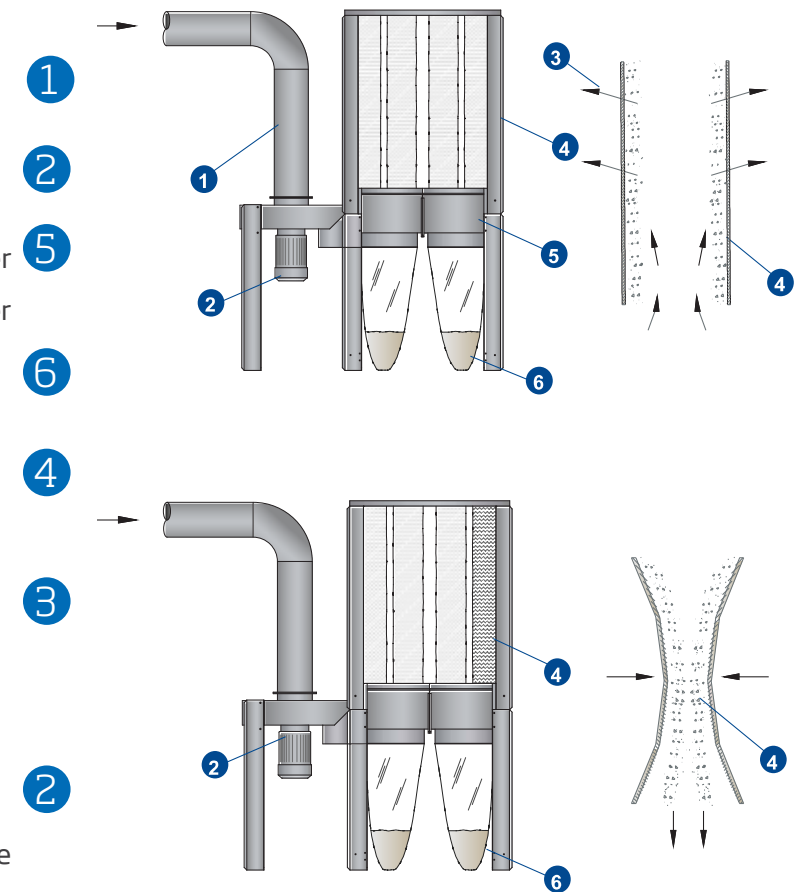


Antistatic patented SuperBags

## How it works

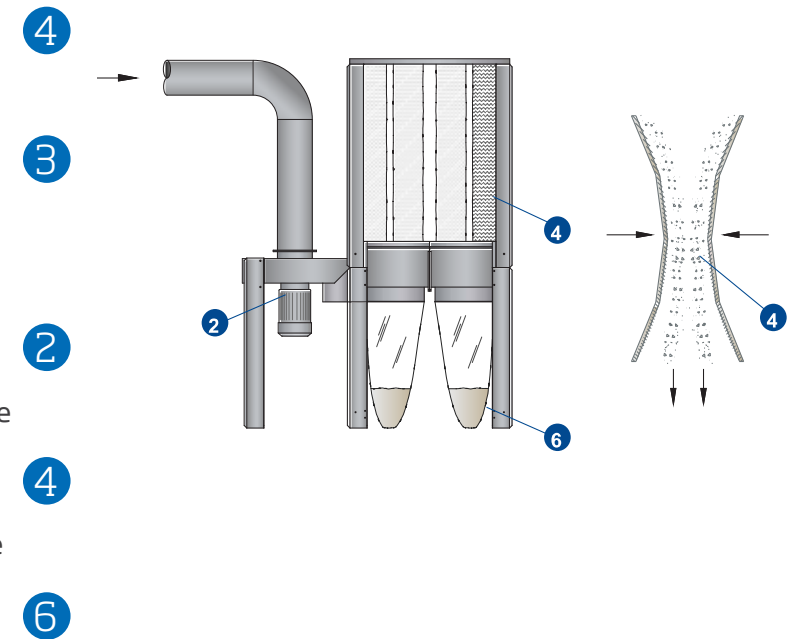
### During normal operation:

- Dust laden air from the plant travels down the supply duct
- Dirty air then enters the COMBIFAB material handling fan
- Dust then enters the hopper section of the filter
- As air slows down within the hopper, the heavier dust particles fall down into the inside of the collection bags
- The remaining dust then travels up into the inside of the filter bag.
- The air, which originated from the plant, is now clean and passes through the filter bag into the surrounding atmosphere.



### While cleaning:

- The S series may only clean "off-line", when the COMBIFAB fan has stopped rotating
- The S series is cleaned by applying physical force to the outside of the filter bag which in effect, shakes them off
- The dust cake, which hangs on the inside of the filter bag falls into the hopper section and then into the collection bags below



## The Nederman Difference





Nederman S-Series

- Silent Operation
- Typically < 70 dB(A)
- Simple Setup
- Pre-assembled collapsed design setup in as quickly as 15 minutes
- Safe
- Designed for indoor installation using anti-static filter bags
- Super Bag
- Seamless 99.9% efficiency filter bags for long filter life



Unit Specifications

**S - 500**

INLET 250mm

**Basic Model Features**

- 162 Sq Ft of filter media
- Easy installation
- Quiet operation
- Two waste discharge points

**Basic Model Features**

- Qty (1) 5 HP, 1750 RPM, TEFC motor
- Qty (16) Beane material filter bags
- Qty (2) plastic waste collection bag
- Qty (2) clamps for easy removal of waste bags

**Model Number Selection:**

S500 - - -

Phase

1

Starter

115	115V
208	208V
230	230V

Dust discharge

0	Std. Bag
B	2 Barrel

S500 - - -

Phase

3

Starter

208	208V
230	230V
460	460V
575	575V

Dust discharge

0	Std. Bag
B	2 Barrel

**CFM RANGE**

8.0" Wg	7.5" Wg	5.0" Wg
1500 CFM	2000 CFM	3000 CFM

Shipping Weight: 675lbs.

**S - 750**

INLET 280mm

**Basic Model Features**

- 243 Sq Ft of filter media
- Easy installation
- Quiet operation
- Three waste discharge points

**Basic Model Features**

- Qty (1) 7.5 HP, 1750 RPM, TEFC motor
- Qty (24) Beane material filter bags
- Qty (3) plastic waste collection bag
- Qty (3) clamps for easy removal of waste bags

**Model Number Selection:**

S750 - - -

Phase

1

Starter

115	115V
208	208V
230	230V

Dust discharge

0	Std. Bag
B	3 Barrel
D	Dump Bin

S750 - - -

Phase

3

Starter

208	208V
230	230V
460	460V
575	575V

Dust discharge

0	Std. Bag
B	3 Barrel
D	Dump Bin

**CFM RANGE**

10.0" Wg	8.0" Wg	6.0" Wg
2500 CFM	3500 CFM	4500 CFM

Shipping Weight: 900lbs.



# Waste disposal made easy as 1-2-3



## Unit Specifications

**Basic Model Features**

- 360 Sq Ft of filter media
- Easy installation
- Quiet operation
- Three waste discharge points

**Basic Model Features**

- Qty (1) 10 HP, 1750 RPM, TEFC motor
- Qty (24) Beane material filter bags
- Qty (3) plastic waste collection bag
- Qty (3) clamps for easy removal of waste bags

**Model Number Selection:**

S1000 - - -

Phase	Starter	Dust discharge
3	208 208V	0 Std. Bag
	230 230V	B 3 Barrel
	460 460V	D Dump Bin
	575 575V	

**CFM RANGE**

8.0" Wg	7.0" Wg
4000 CFM	5000 CFM

Shipping Weight: 950lbs.



Save time.  
Upgrade to the dump bin.

- Increase capacity by 80% for longer running intervals
- Simple quick clamp for easy and clean maintenance
- Easy forklift removal for worker safety
- Easy "tilt-to-empty" design for simple waste disposal



Waste disposal options:



Bags (standard)



Barrels (optional)



Dump bin (optional)



# Complete solutions that protect people, planet & production



## Comprehensive product range

Nederman is a world-leading environmental technology company with solutions that take their origin in "capture-at-source", i.e. extraction of contaminants right at the point of creation. We filter, clean and recycle to create eco-efficient production in demanding industrial surroundings. Our offer includes individual products, engineering design, installation, commissioning and service. By continually adding new skills and solutions and expanding our geographic presence, we help our customers to develop their businesses both economically and ecologically.

## Extensive experience

For more than 75 years, Nederman has developed products and solutions to reduce the strain on the environment and protect people from harmful particles, fibers, dust, gas, smoke and oil mist. We have extensive experience of how to create a safe working environment, also when handling combustible substances. Our accumulated knowhow is easily accessible when you plan a new facility or need to modernize existing operations.



## Combustible dust

Worldwide standards and regulations exist on how to handle combustible dusts to keep workers and facilities safe. Dust extraction and collection systems properly installed at the source is one way to ensure compliance with combustible dust codes and standards. Nederman is a world leader in providing combustible dust compliant systems subject to ATEX and NFPA regulations.



## Worldwide presence

Nederman has a strong global presence in both sales and production. We have our own sales companies in 30 countries and distributors in more than 30 countries. Production is performed in 12 countries on five continents. In many countries, we also have a well-established service organization. By offering advanced service with high availability, Nederman helps customers to secure continuous, optimized production.

COMBUSTIBLE DUST EXPERTS WITH A WIDE RANGE OF NFPA & ATEX  
APPROVED SOLUTIONS





**Nederman**

## The Clean Air Company

### Our promise - contributing to a sustainable future

Clean air is a cornerstone of sustainable production. Our customers want to boost profitability by making their operations as efficient as possible. They want to meet high environmental standards and keep employees safe from fumes and dust. Nederman can help them on all counts. That's how we create value.

### The Clean Air Company - Vision 2025

Nederman celebrated its 75th anniversary in 2019. From the very beginning, the business idea was clean air. Today, the environment and sustainability are more relevant than ever and the demands are increasing to contribute actively to more efficient production and reduced emissions in industry. The next generation of solutions for clean industrial airflows is under development. Nederman is at the forefront of this development.



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