

Nordfab Particulate Scrubbers

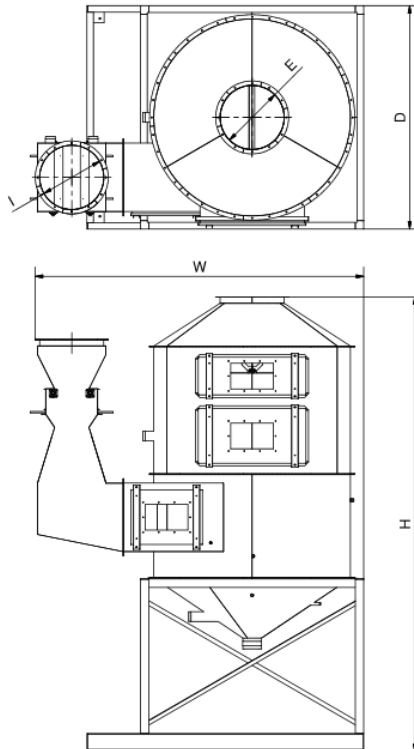
Nordfab PARTICULATE SCRUBBERS

Description

The Nordfab range of particulate scrubbers is designed for the filtering of contaminated air.

Operating Principle

The polluted air first enters the scrubber through a 90° bend and is intercepted by an array of water droplets. The air is accelerated as it enters the scrubber by a venturi plate to increase the number of collisions with the water droplets. Water is recirculated from the water tank to the spray jets. Some of the particles drop out into the water tank below at this stage. The remainder of the combined air-water mixture travels through to the perforated baffle. The water that passes through here produces a dam of water which acts as another stage of filtration. Finally, the air-water mixture enters a mist eliminator to remove any moisture present in the air stream. Sludge forms in the collection tank below.

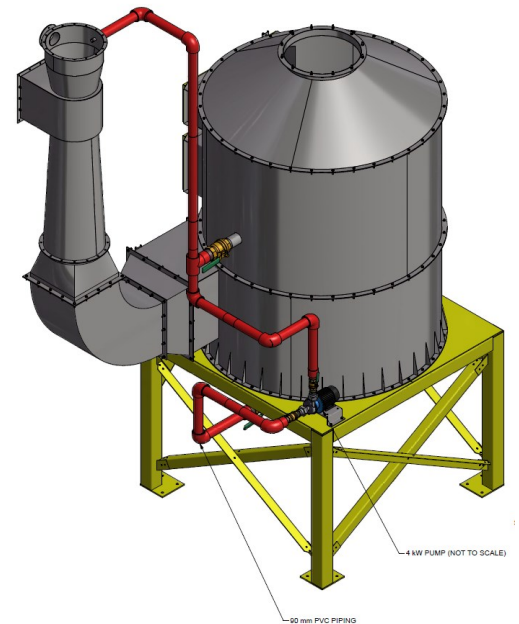
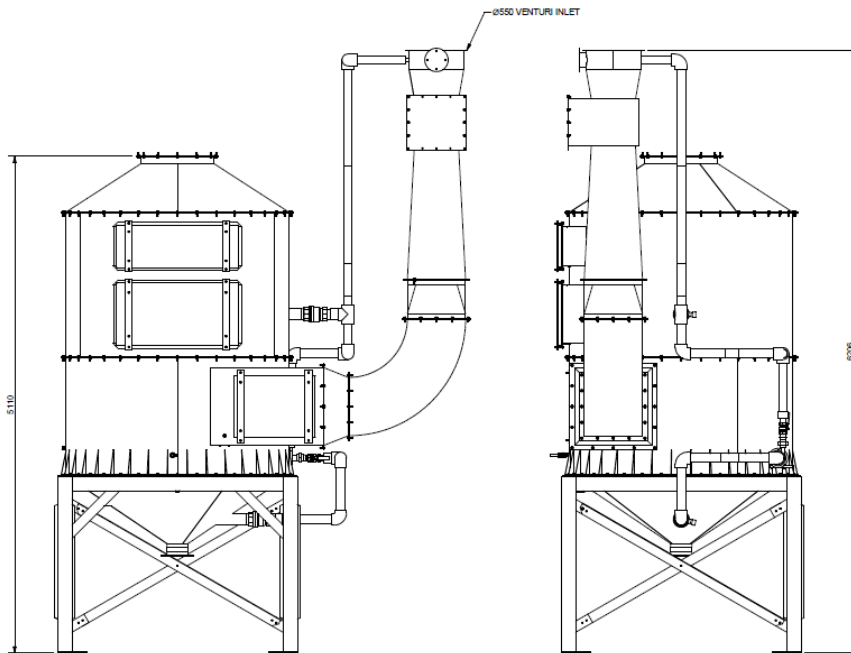


Specifications

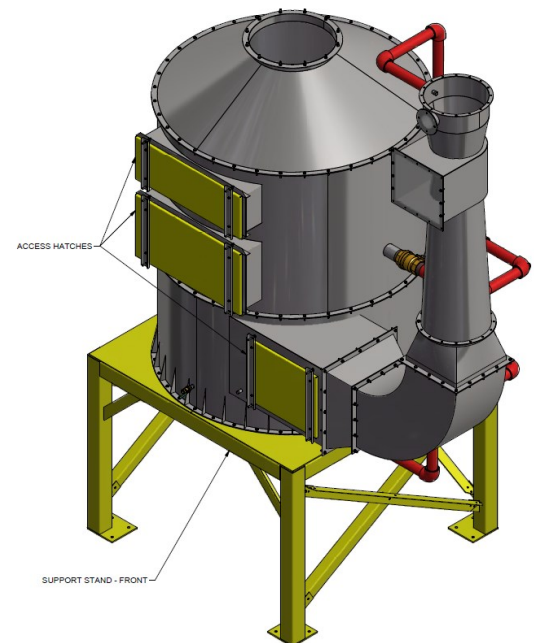
MODEL	AIRFLOW (m ³ /h)	BODY DIAMETER (mm)	WIDTH W (mm)	DEPTH D (mm)	HEIGHT H (mm)	INLET DIA I (mm)	OUTLET DIA E (mm)
PS 3000	3000	800	2315	1110	3810	250	250
PS 6000	6000	1100	2615	1410	4310	350	350
PS 12000	12000	1500	3015	1810	4810	500	500
PS 24000	24000	2000	3815	2400	5310	750	750
PS 36000	36000	2700	4215	3010	5310	900	900

Nordfab Particulate Scrubbers

Venturi Particulate Scrubber PS24000



Type	Venturi particulate scrubber
Model	PS24000
Airflow capacity	Up to 24,000 m ³ /h
Pump	Centrifugal 2.2 kW 3 phase
Mist eliminator	Woven Stainless steel wire mesh
Sludge outlet	At bottom of hopper
Construction materials	Fully welded mild steel, sandblasted and painted
Water supply	Mains water pressure
Venturi	Adjustable throat
Pressure loss through scrubber at maximum efficiency	3 kPa



Nordfab Particulate Scrubbers

Venturi Particulate Scrubber SV3600

Description

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Operating Principle

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Construction

Fully welded Stainless steel sheetmetal construction. The standard grade of Stainless steel used is 304.2B. Depending on the dust type, Stainless steel 316.2B is used for additional corrosion protection.

Applications

Food powders, Brick dust
Metal grinding, Explosive dusts



Type	Venturi particulate scrubber
Model	SV3600
Airflow capacity	1,000 L/s
Pump	Centrifugal 0.75 kW 3 phase
Mist eliminator	Woven Stainless steel wire mesh
Sludge collection drum	Plumbed directly to trade waste
Construction material – filter chamber	Laser cut and fully welded Stainless steel 304.2B
Construction material – support structure	Channel base Stainless steel 304.2B
Water supply	Mains water pressure
Venturi	Adjustable throat
Pressure loss through scrubber at maximum efficiency	3 kPa
Scrubber body dimensions	900 mm x 900 mm
Overall dimensions	1000 x 2000 x 3000 mm high

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Nordfab Particulate Scrubbers

Venturi Particulate Scrubber WS1000

Description

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Operating Principle

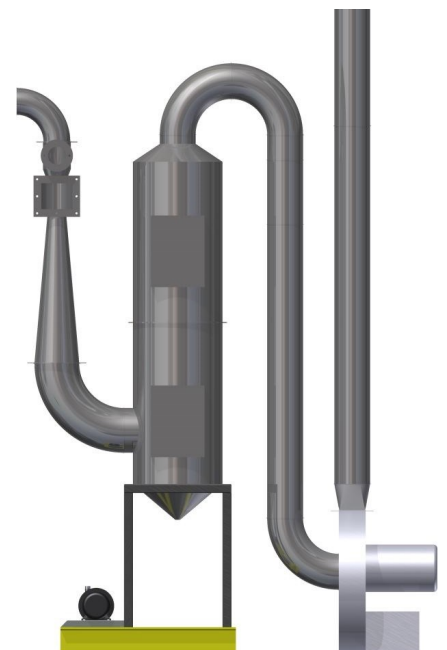
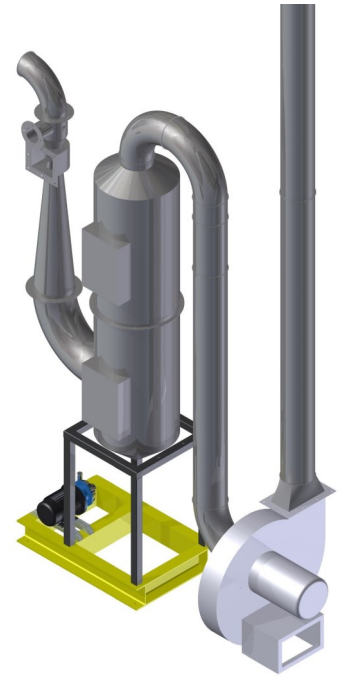
The polluted air first enters the scrubber through a 90° bend and is intercepted by an array of water droplets. The air is accelerated as it enters the scrubber by a venturi plate to increase the number of collisions with the water droplets. Water is recirculated from the water tank to the spray jets. Some of the particles drop out into the water tank below at this stage. The remainder of the combined air-water mixture travels through to the perforated baffle. The water that passes through here produces a dam of water which acts as another stage of filtration. Finally, the air-water mixture enters a mist eliminator to remove any moisture present in the air stream. Sludge forms in the collection tank below.

Construction

Fully welded Stainless steel sheet metal construction. The standard grade of Stainless steel used is 304.2B. Depending on the dust type, Stainless steel 316.2B is used for additional corrosion protection.

Applications

Food powders, Brick dust
Metal grinding, Explosive dusts



Type	Venturi particulate scrubber
Model	WS1000
Airflow capacity	1,000 m ³ /h
Pump	Centrifugal 0.55 kW 3 phase
Fan	3 kW 3 phase IP55
Mist eliminator	Woven stainless steel wire mesh
Sludge collection drum	Plumbed directly to trade waste
Construction material – filter chamber	Laser cut and fully welded Stainless steel 316.2B
Construction material – support structure	Channel base Stainless steel 316.2B
Water supply	Mains water pressure
Venturi	Adjustable throat
Pressure loss through scrubber at maximum efficiency	3 kPa
Scrubber body diameter	500 mm
Overall dimensions	2146 x 2000 x 3050 mm high

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