

[Click to go to the page](#)

Nederman



NFPZ
Negative Pressure Bag Filter

The NFPZ (1,000 – 12,000 CFM)

Suitable for collection of many different types of dust including wood, paper, plastics and other dry dusts.

Features

- *Clamp on barrels standard*
- *Shaker cleaning*
- *Small footprint*
- *Fan on clean side*
- *Optional fan silencer*
- *Optional plug-n-play*
- *Quiet operation*
- *NFPA Compliant*



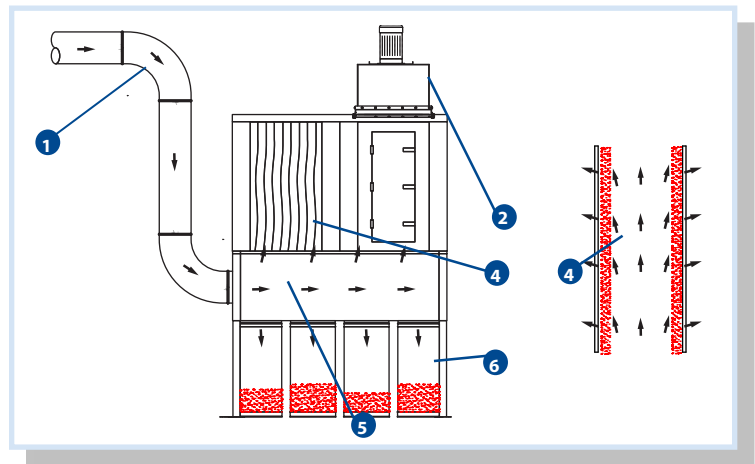
Applications:

High speed routing, Sawing, Cutting, Sanding, Dump stations, Shifting, Light dust loads.

How it Works

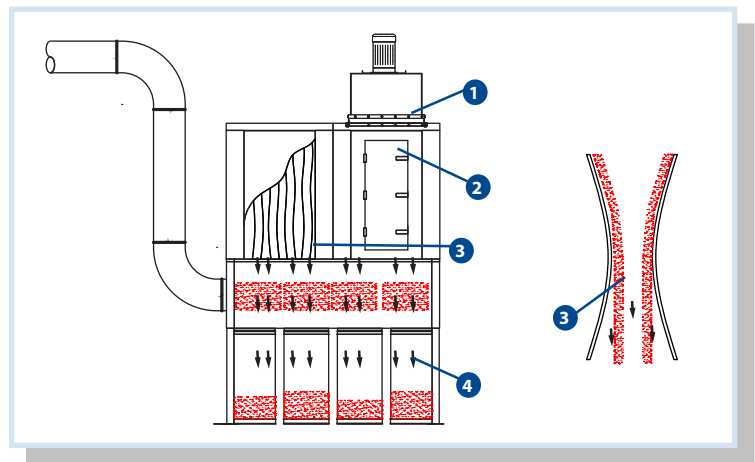
...during normal operation

1. During normal operation, the dust laden air from the plant travels down the supply duct ❶
2. The dust then enters the hopper section ❷ of the filter
3. As air slows down within the hopper, the heavier dust particles fall down into the inside of the filter bags ❸
4. The remaining dust then travels up into the inside of the filter bags ❹
5. The air, which originated from the plant, is now clean and passes through the filter bag into the fan. ❺ May exhaust to outside or be ducted back to building via proper designed return air system

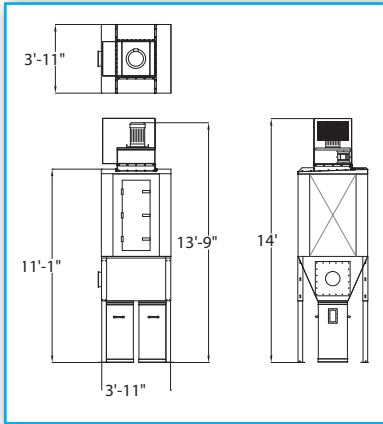


...while cleaning

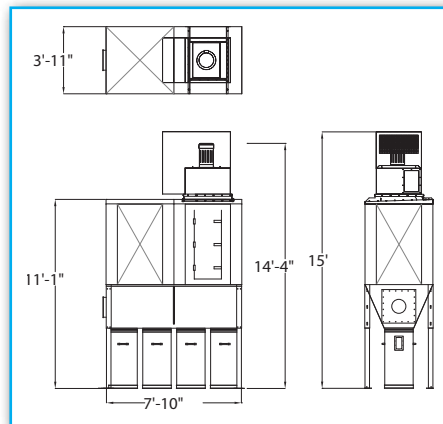
1. The NFPZ filter must also clean “off-line”, when the fan ❶ has stopped rotating
2. A shaker mechanism ❷ is automatically started when the fan is stopped and operates for a set period
3. The dust which remains on the inside of the filter bag ❸ after the ‘shake’ is loosened from the filter fabric
4. The dust which is removed during the cleaning cycle falls into the collection bags/barrels ❹



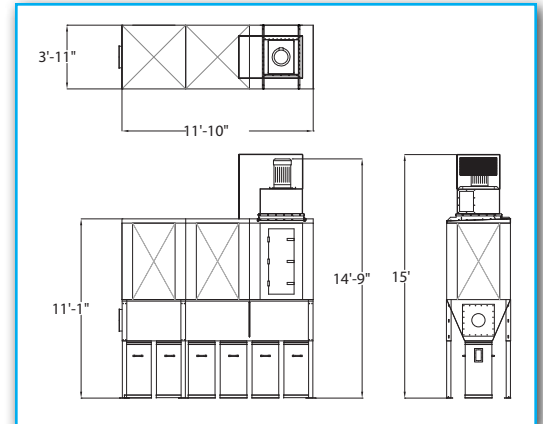
Dimensions and performance



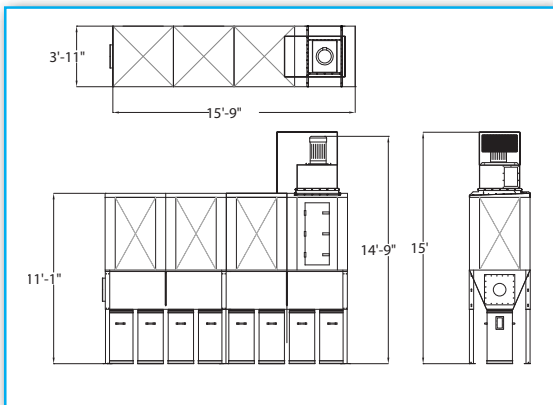
NFPZ3000-1LE



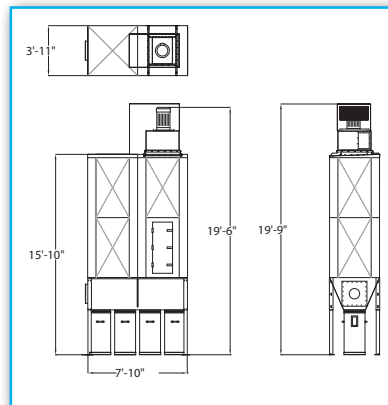
NFPZ3000-2LE



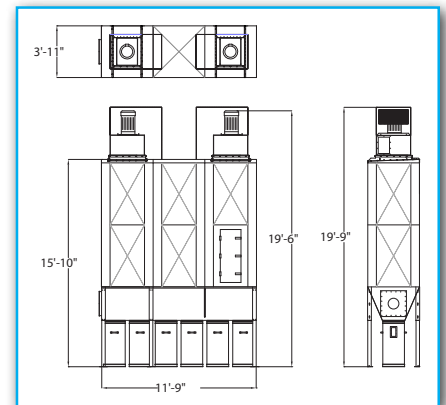
NFPZ3000-3LE



NFPZ3000-4LE



NFPZ3000-2HE

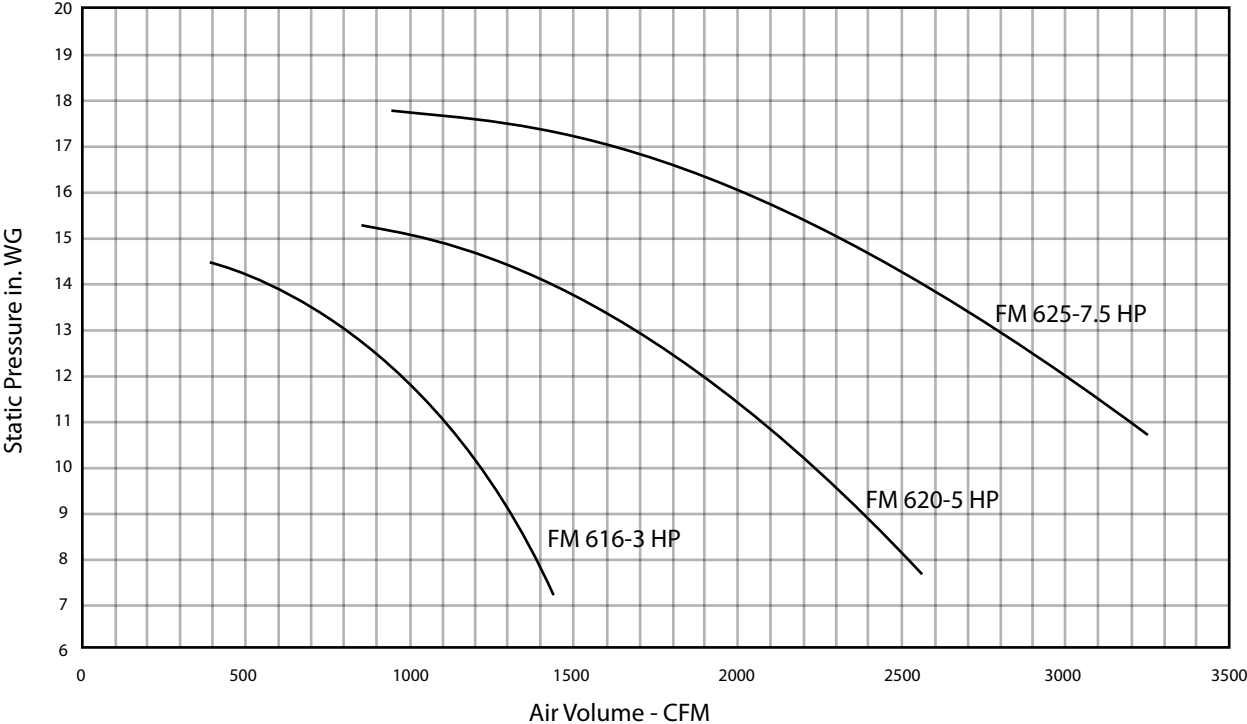


NFPZ3000-3HE

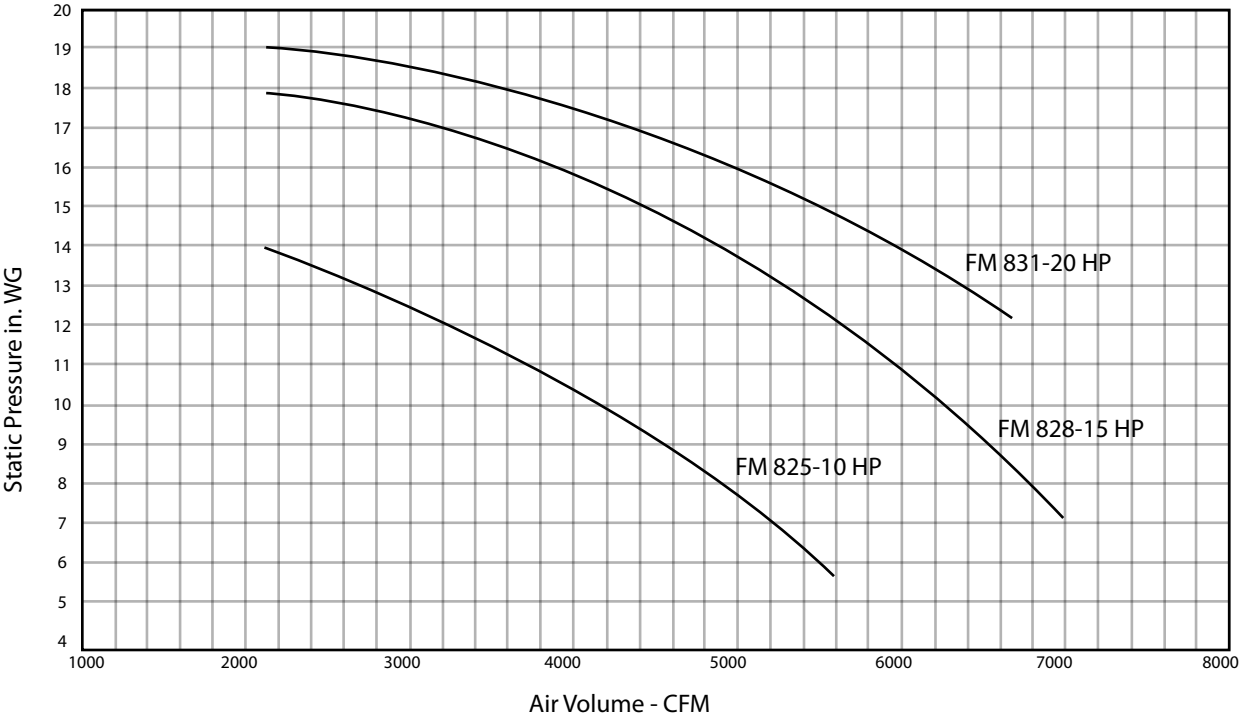
MODEL NUMBER	NO. OF BAGS	FILTER MEDIA (FT ²)	AIR VOLUME (CFM)	INLET DIA.	STANDARD FAN		ALTERNATE FAN	
					FM FAN	FAN SP	FM FAN	FAN SP
NFPZ3000-1LE	25	215	1900	10"	620-5 HP	14"	625-7.5 HP	17"
NFPZ3000-2LE	50	430	3800	14"	825-10 HP	12"	828-15 HP	17"
NFPZ3000-3LE	75	645	5700	16"	828-15 HP	15"	831-20 HP	17"
NFPZ3000-4LE	100	860	7600	18"	831-20 HP	15"	860-25 HP	17"
NFPZ3000-2HE	50	900	7000	18"	831-20 HP	15"	860-25 HP	17"
NFPZ3000-3HE	75	1350	10500	22"	2 x 828-15 HP	16"	2 x 831-20 HP	18"

FMC Fan Curves

FM Fan Performance Curves 3HP - 7.5HP



FM Fan Performance Curves 10HP - 20HP



Superbag - The heart of the system

A filter is only as good as the filter bags it uses. This is the component that provides the filtering while allowing clean air to pass through with the least possible resistance and, therefore, the lowest possible consumption of energy-even after several thousand hours of operation.



SUPERBAG is fitted as the standard in all NFP filters.

Efficiency and low energy consumption

Superbag is polyester filter bag. A weaving technique in tubular format give the filter bag a surface which can cope with varying dust loads and with virtually any type of dust. Better filtering efficiency is achieved with this unique filter media which provides low pressure drop, and low energy consumption.

Antistatic

SUPERBAG's interwoven carbon fiber wire provides higher anti-static properties - both on the surface and inside - than traditional filter bags. This reduces the risk of fire and explosion as fine particles are removed.

Strength and durability

The special shape of the SUPERBAG helps to ensure that the high efficiency and effectiveness of the NFP filter system is maintained even after long periods of operation. The durability is the result of the construction, strong polyester fiber and seamless body. These features also help make cleaning of the filter bag very easy.

Superbag

Superbag Specifications

QUALITY	Circular knitted with two integrated layers filter	
MATERIAL	100% polyester	
WEIGHT	16	Ounces/sqft
MAX. OPERATING TEMPERATURE	289	°F
INTERMITTENT PEAK TEMPERATURE	320	°F
MELTING POINT	482-500	°F
FILTER EFFICIENCY	U or G optional	99.9%
ELECTROSTATIC BEHAVIOR	Surface resistance 2.6×10^7 Ohm Charging towards PA 0.7 kV	DIN 54 345 TEIL 1 TEFO Method 40-77
APPLICATIONS	Filtration of: Shavings, saw dust, sanding dust, lacquering dust from woodworking industry as well as other fibrous materials such as mineral wool, paper strips and dust.	

Options



Silencer



Ecogate System



Spark Detection



CARZ Explosion Isolation Flap



Abort Gate



Firetrace

Bringing superior conditions to the workplace and the environment

For more than 60 years Nederman has developed, manufactured and marketed products and system solutions to reduce the strain on the environment and improve working conditions in numerous industries.

Our products and systems have been ground-breaking in industries such as Machining, Metal Fabrication, Automotive, Composite Manufacturing, Food, Paper, Chemical, Pharmaceutical and many others.

Today companies all over the world are using equipment from Nederman.



Nederman LLC
102 Transit Ave
POBox 429
Thomasville NC, 27361
800-533-5286

Nederman

www.nederman.com

REGISTERED
ISO
9001:2008
14001:2004

Nederman Sales companies in: Australia, Austria, Belgium, Brazil, Canada, China, Czech Rep., Denmark, France, Germany, Hungary, India, Ireland, Northern Ireland, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Thailand, United Kingdom, USA
Nederman Agents in: Bulgaria, Cyprus, Egypt, Estonia, Finland, Greece, Holland, Hong Kong, Iceland, Iran, Ireland, Italy, Japan, Korea, Latvia, Lithuania, Malaysia, New Zealand, Philippines, Saudi Arabia, Serbia, Singapore, Slovenia, South Africa, Switzerland, Taiwan, R.O.C, Thailand, Turkey, United Arab Emirates