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# *Nederman*



**FMK  
Cassette Filter**

# The FMK (1,000-6,000 CFM)

*Suitable for collection of many fine dusts including metal grinding, solid surface and most powders*



*Uses Cassette type filters*

## **Applications:**

*Bench Grinding • Cutting • Bagging Operations • Batch Feeders • Conveyors • Mixing*

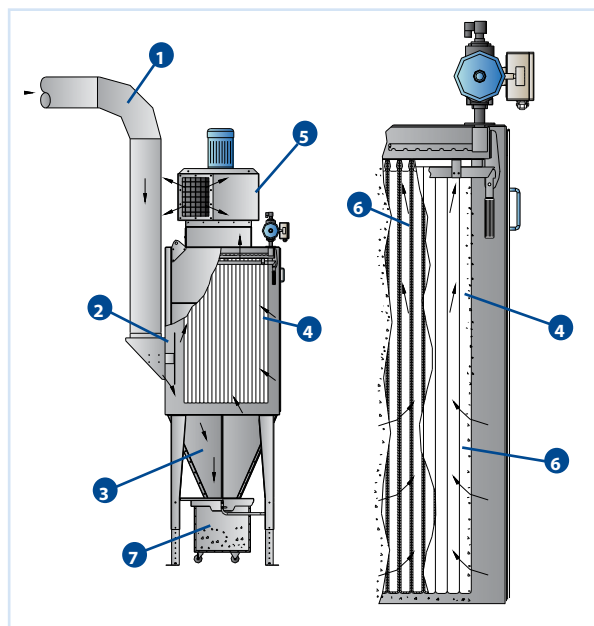
## **Features**

- *Cassette offers ample filter area and lasts longer than cartridge*
- *Compact design*
- *Compressed air cleaning*
- *Various filtration medias available*
- *Galvanized construction for indoor or outdoor placement*
- *Integral or remote mounted fans available*

# How It Works

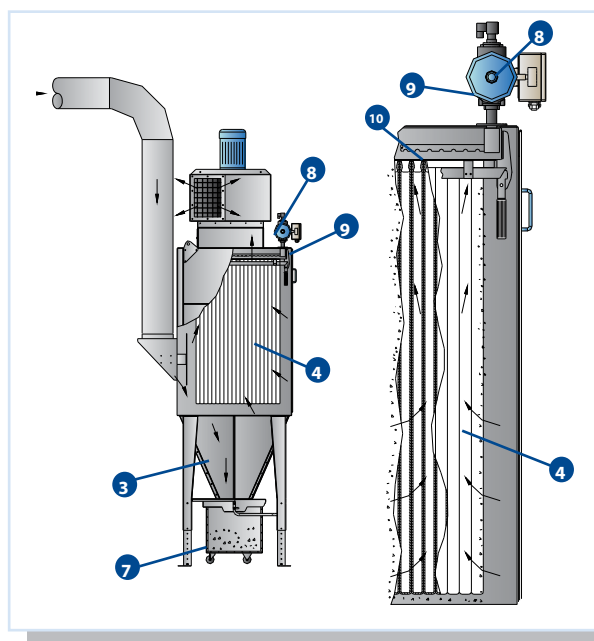
## ...during normal operation

1. During normal operation, the dust laden air from the plant travels down the supply duct **1**
2. A standard baffle **2** is mounted at the inlet of the filter to break up the air flow and direct the dust downward into the hopper section **3** while protecting the filter media from abrasive dusts
3. The lighter dust collects on the outside of the filter cassettes **4** as clean air passes through to the inside of each filter tube **6**. Finally, the clean air travels through the air handling fan **5** where it could be returned to the plant or exhausted outdoors
4. The heavier dust settles in the hopper section where it can be discharged into a metal bin **3** or through a rotary air lock **7**

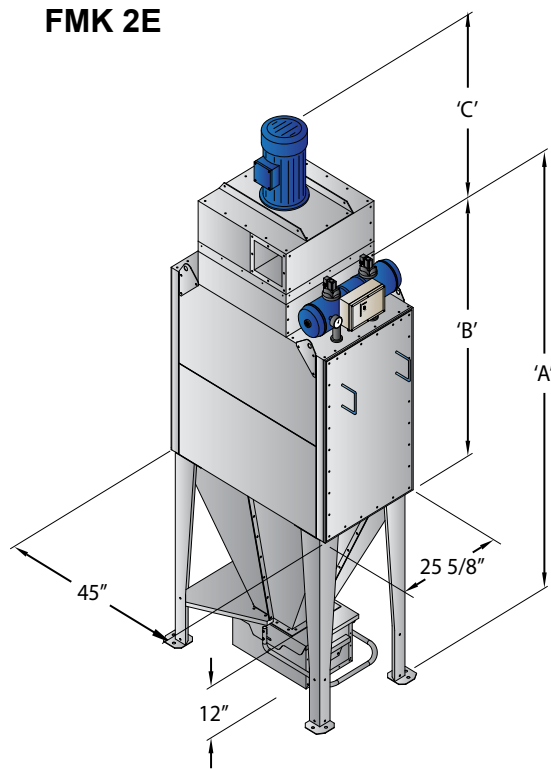


## ...while cleaning

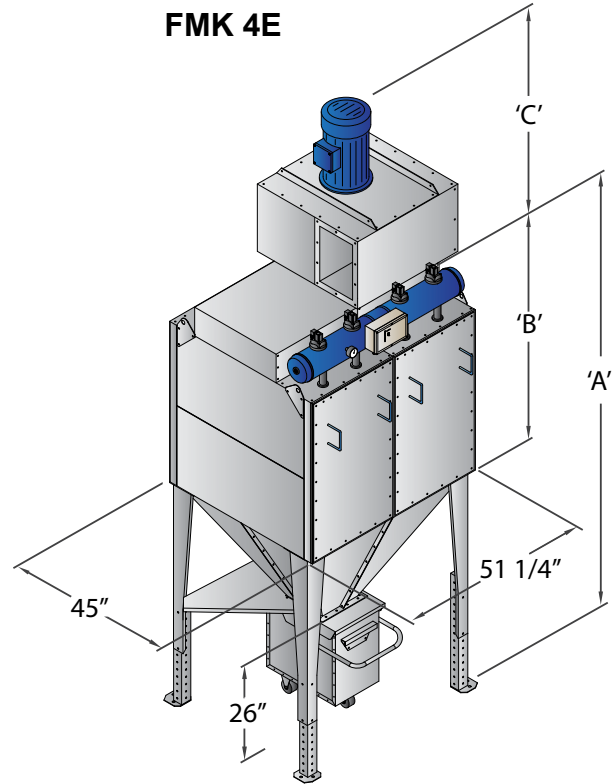
1. The FMK utilizes a Delta-P gauge to control the compressed air cleaning. In essence, the filter cleans itself when it needs to!
2. A compressed air line **9** must be connected to one end of the compressed air manifold **8**
3. A solenoid valve opens to allow compressed air from the compressed air manifold **8** into the jet tubes **10**. The jet tubes are aligned above EACH row in the filter cassette
4. The downward blast blows the dust off the filter cassette **4** (from the inside out) where it settles into the hopper section **3** to be collected in the metal bin **7** or discharged through a rotary air lock



# Unit Specifications



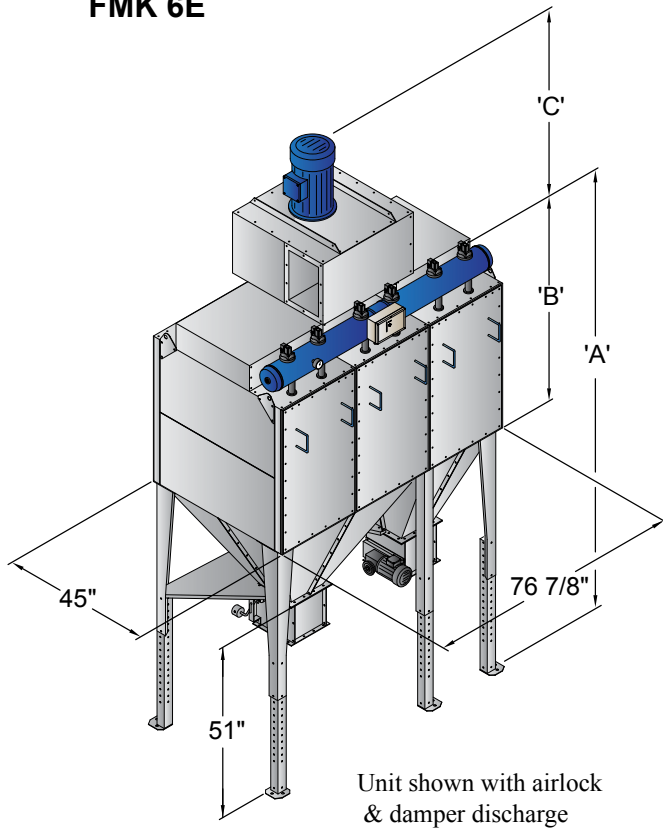
Unit shown with  
14 gallon bin



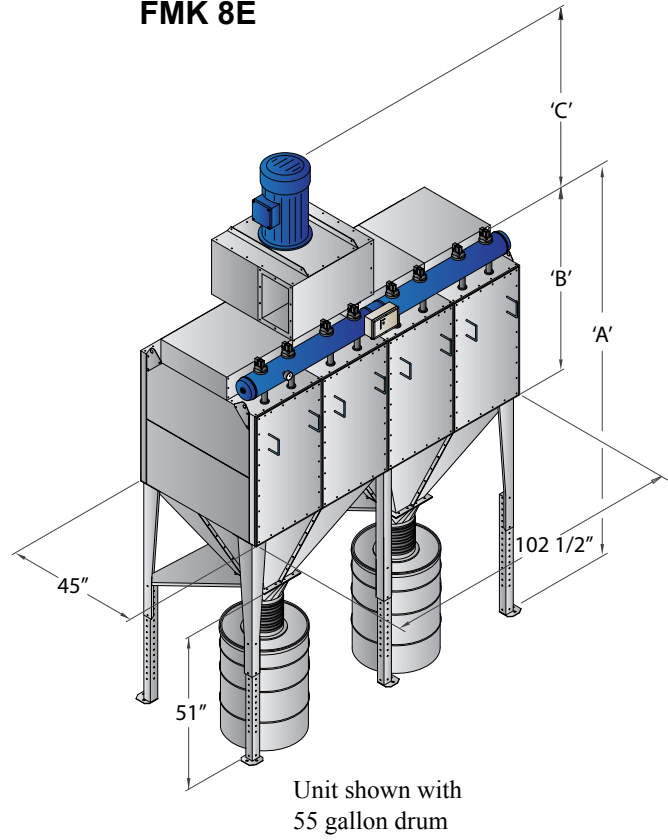
Unit shown with  
28 gallon bin

MODEL NUMBER	NO. OF CASSETTES AND SIZE	FILTER MEDIA (FT <sup>2</sup> )	MAX AIR VOLUME (CFM)	'A1' WITH SMALL BIN (14GAL.)	'A2' WITH LARGE BIN (28GAL.)	'A3' WITH LARGE DRUM (55GAL.) OR AIR-LOCK	'B'	'C'	STANDARD FAN ARRGT.
FMK 2E/4	2 (4 ROW)	160	1,000	8' - 6"	9' - 8"	11' - 9"	4' - 9"	1' - 8"	FM 616 3HP
FMK 2E/6	2 (6 ROW)	237	1,500	8' - 6"	9' - 8"	11' - 9"	4' - 9"	1' - 9"	FM 620 5HP
FMK 4E/4	4 (4 ROW)	320	2,000	8' - 6"	9' - 8"	11' - 9"	4' - 9"	1' - 9"	FM 620 5HP
FMK 4E/6	4 (6 ROW)	474	3,000	8' - 6"	9' - 8"	11' - 9"	4' - 9"	2' - 0"	FM 625 7.5HP

**FMK 6E**



**FMK 8E**

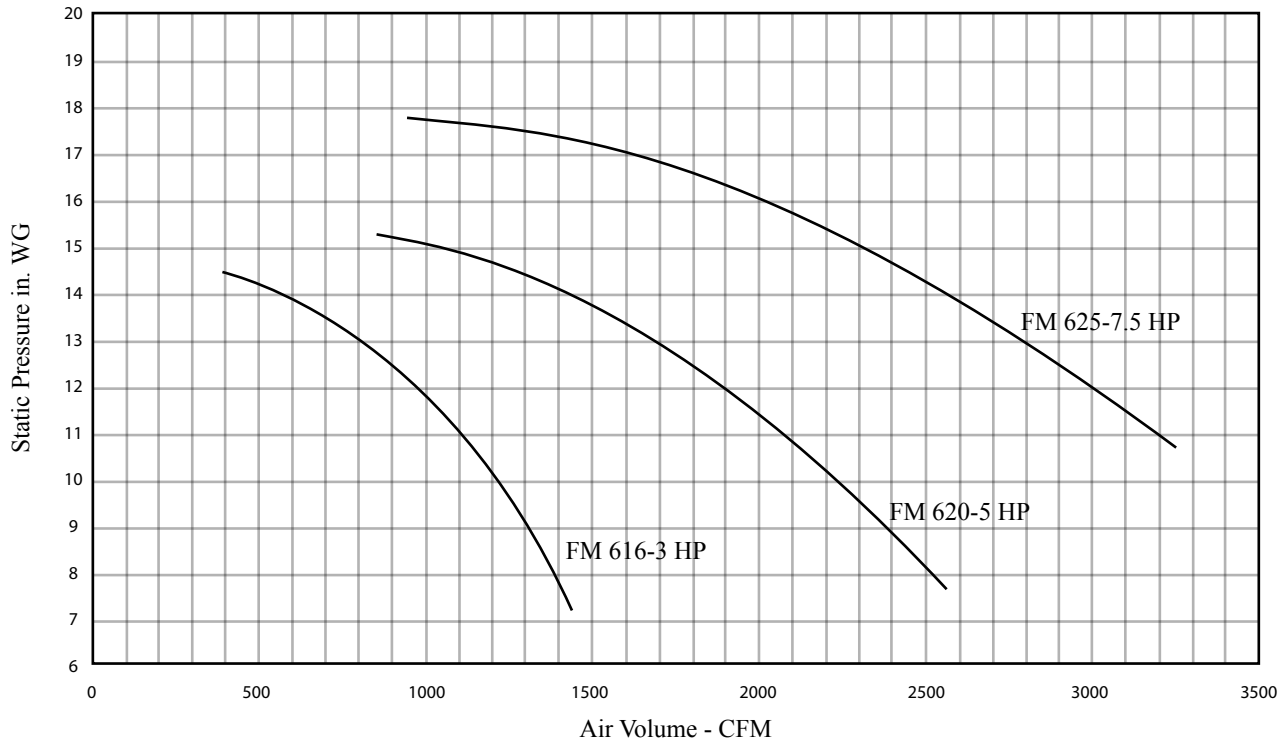


MODEL NUMBER	NO. OF CASSETTES AND SIZE	FILTER MEDIA (FT <sup>2</sup> )	MAX AIR VOLUME (CFM)	'A1' WITH SMALL BIN (14GAL.)	'A2' WITH LARGE BIN (28GAL.)	'A3' WITH LARGE DRUM (55GAL.) OR AIR-LOCK	'B'	'C'
FMK 6E/4	6 (4 ROW)	480	3,000	8' - 6"	9' - 8"	11' - 9"	4' - 9"	2' - 0"
FMK 6E/6	6 (6 ROW)	711	4,500	8' - 6"	9' - 8"	11' - 9"	4' - 9"	3' - 2"
FMK 8E/4	8 (4 ROW)	640	4,000	8' - 6"	9' - 8"	11' - 9"	4' - 9"	2' - 9"
FMK 8E/6	8 (6 ROW)	948	6,000	8' - 6"	9' - 8"	11' - 9"	4' - 9"	3' - 2"

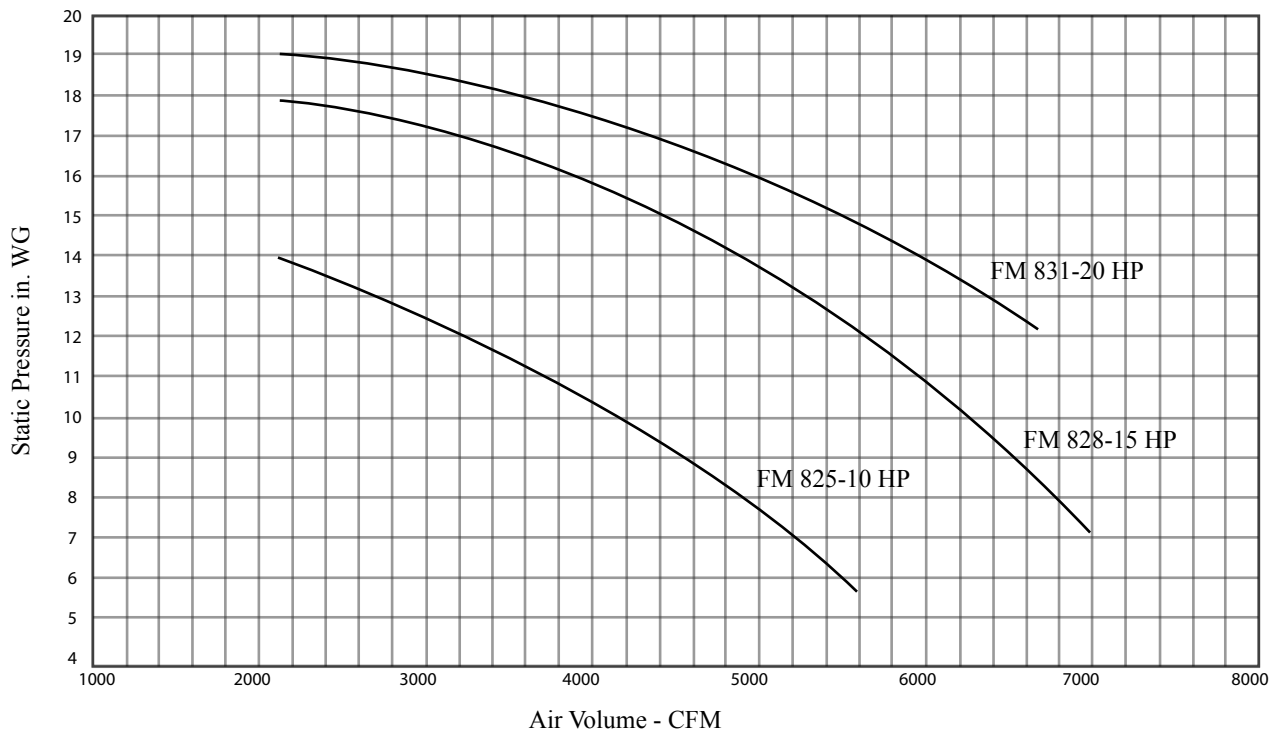


# Fan Curves

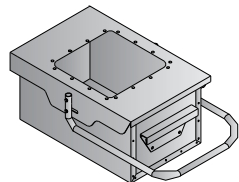
**FM Fan Performance Curves 3HP - 7.5HP**



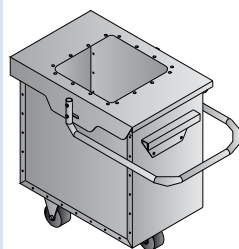
**FM Fan Performance Curves 10HP - 20HP**



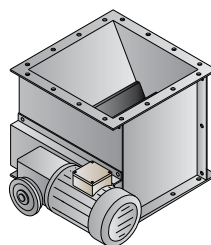
# Options



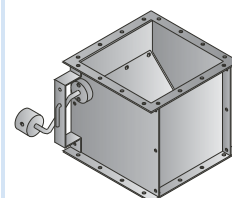
14 gallon quick  
release bin



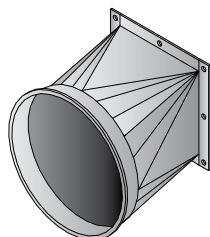
28 gallon quick release  
bin with wheels



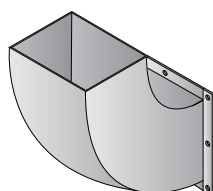
NRS3 rotary air-lock



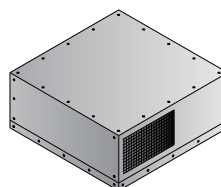
NFSU3 counter  
balanced dump valve



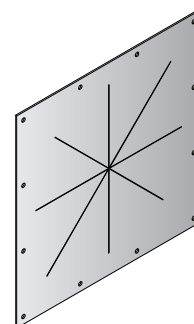
Fan outlet transition



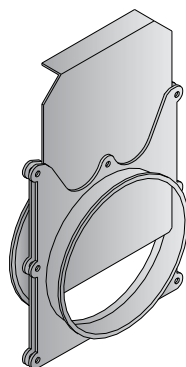
Fan outlet elbow



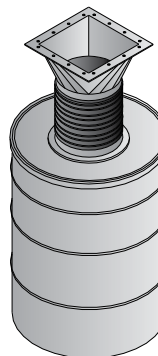
Silencer



Explosion panel



Fan outlet damper



55 gallon drum  
assembly

# 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.



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