



Engineered  
Filtration, Inc.

**DUST &  
SMOKE  
COLLECTORS**



**COSMIC DUST**

## COSMIC DUST

# Industrial filters for centralized solutions and high flowrates.

State of the art self-cleaning dust, fumes and smoke collectors, available in 6 models, specifically designed for large machine tools or for centralized filtration solutions.

COSMIC DUST



## WORKING PROCESS

1

### Air entry:

The air enters a calming chamber which serves to slow down the air speed and enable the heavier dust particles to fall into a collecting bin fitted with wheels.

2

### Main filtration:

The finer dust particles go upwards and through a section fitted with folded cartridges with a wide filtration surface, able to withhold the finest impurities. The cartridges maintain their filtration efficiency thanks to a compressed air counter-washing system which is managed by an extremely advanced cyclic programmer.

3

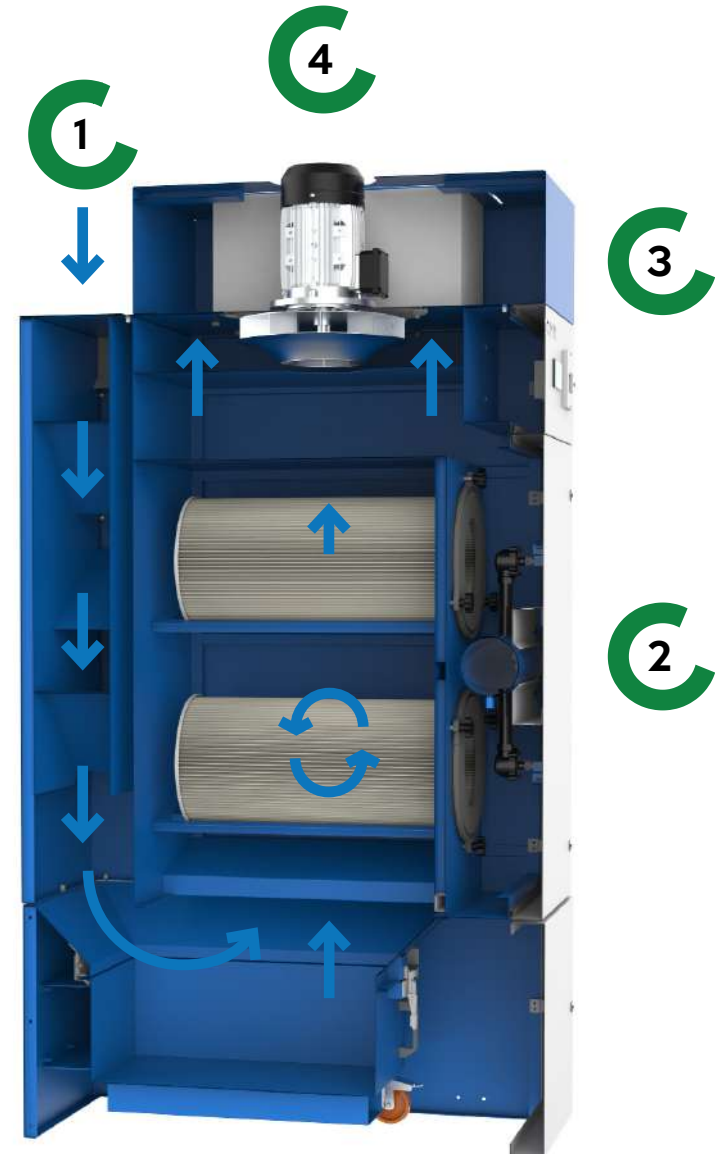
### Post filtration (optional):

Absolute HEPA filter very high efficiency, H13 classification.

4

### Air exit:

The clean air can be released back into the work environment or externally by means of an air expulsion chimney.



## COSMIC DUST ADVANTAGES



### Filter monitoring:

Standard supplied with an innovative electronic control unit for continuous monitoring of the clogging status of the filter elements and for intelligent management of



### Certified filtration efficiency:

Filter elements for any type of application certified according to IFA BGIA norms.



### SELF-CLEANING:

Cosmic Dust is maintained in perfect efficiency thanks to its automatic filter cleaning system.



### CUSTOMIZABLE:

Where required, Cosmic Dust can be equipped with a stellar rotary valve for continuous discharge of dust, as well as a variety of accessories and sensors for safety and diagnostics.



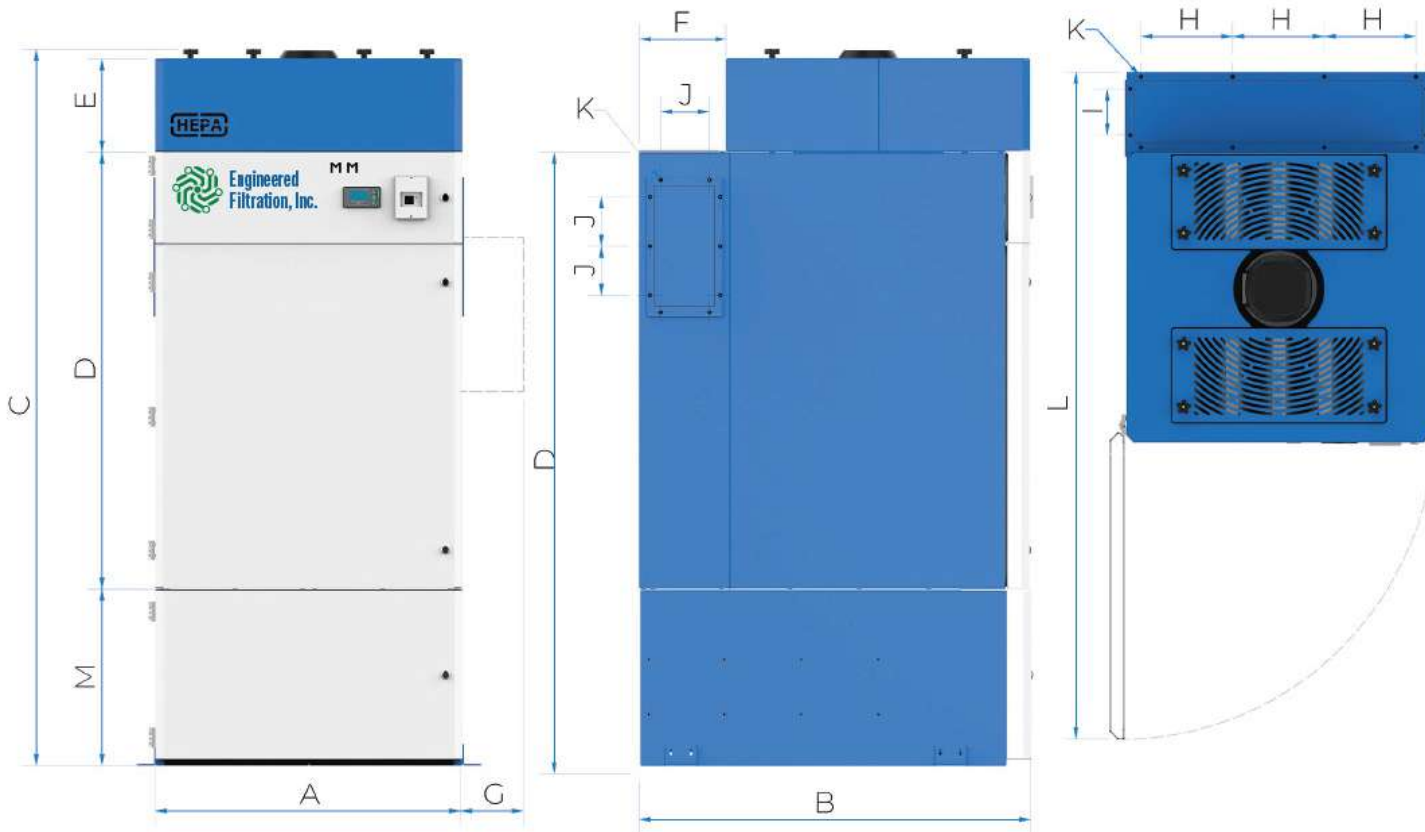
### **Installation on a single machine:**

The Cosmic Dust range is ideal for installation on single large sized machine tools.

### **Centralized installation:**

Cosmic Dust is also suitable as a centralized solution for multiple suction points at the same time.

COSMIC DUST  
**TECHNICAL DETAILS**



Cosmic Dust	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	F (mm/in)	G (mm/in)	H (mm/in)	I (mm/in)	J (mm/in)	K	L (mm/in)	M (mm/in)	N (mm/in)
<b>2/3</b>	1000/39	1275/50	2315/91	1413/55	300/11	286/11	0	300/11	150/5	160/6	M8	2660/104	570/22	1983/78
<b>4/5</b>	1450/57	1325/52	2345/92	1413/55	300/11	236/9	300/11	450/17	150/5	160/6	M8	2710/106	570/22	1983/78
<b>7/10</b>	1450/57	1325/52	3010/118	1907/75	300/11	236/9	300/11	450/17	150/5	160/6	M8	2710/106	570/22	2477/97



## Cosmic Dust

	Max flowrate (m <sup>3</sup> /h/cfm)	Pressure (mm H <sub>2</sub> O)	Cartridges (N°)	Filtration surface (m <sup>2</sup> )	Power (kW/HP)	Weight (Kg/lbs)	Noise level w/out HEPA (dB)
<b>2</b>	2,500/1,471	250	4	48	2.2/2.95	365/804	<80
<b>3</b>	3,500/2,060	260	4	48	3/4.02	378/833	<80
<b>4</b>	4,500/2,648	270	6	72	4/5.36	491/1082	<85
<b>5</b>	5,500/3,237	300	6	72	5.5/7.37	512/1128	<85
<b>7</b>	7,500/4,414	270	9	108	7.5/10.0	868/1913	<85
<b>10</b>	9,500/5,591	300	9	108	11/14.75	899/1981	<89



# **Engineered Filtration, Inc.**

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