



Engineered  
Filtration, Inc.

**OIL MIST  
COLLECTORS**



**CONSTELLATION**

## CONSTELLATION

Industrial filters for centralized solutions and high flowrates.

State of the art oil mist collector range offering eight models designed for centralized filtration solutions or for large machine tools.

CONSTELLATION



10 / 12

7 / 8

4 / 5

2 / 3

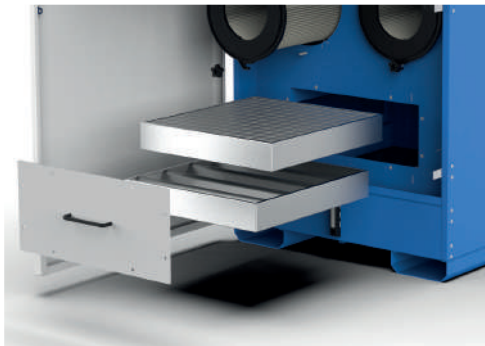
# WORKING PROCESS

1

### Air entry:

The air enters a calming chamber which serves to slow down the air speed and enables the condensation of the oil particles.

2



### Pre-filtration:

Pre-treatment section composed of a washable metallic filter (G2 efficiency) and a washable drop separator (for emulsion) or a multi-layer glass fiber filter (for oil). Both filters are contained in an easily extractable drawer for quick and easy maintenance.

3

### Main filtration:

This area contains folded cartridges with a wide filtration surface and high filtration efficiency for treatment of the finest pollutants. The cartridges are covered by highly absorbent coalescent filter sleeves which lengthen the filter cartridges' life.

4

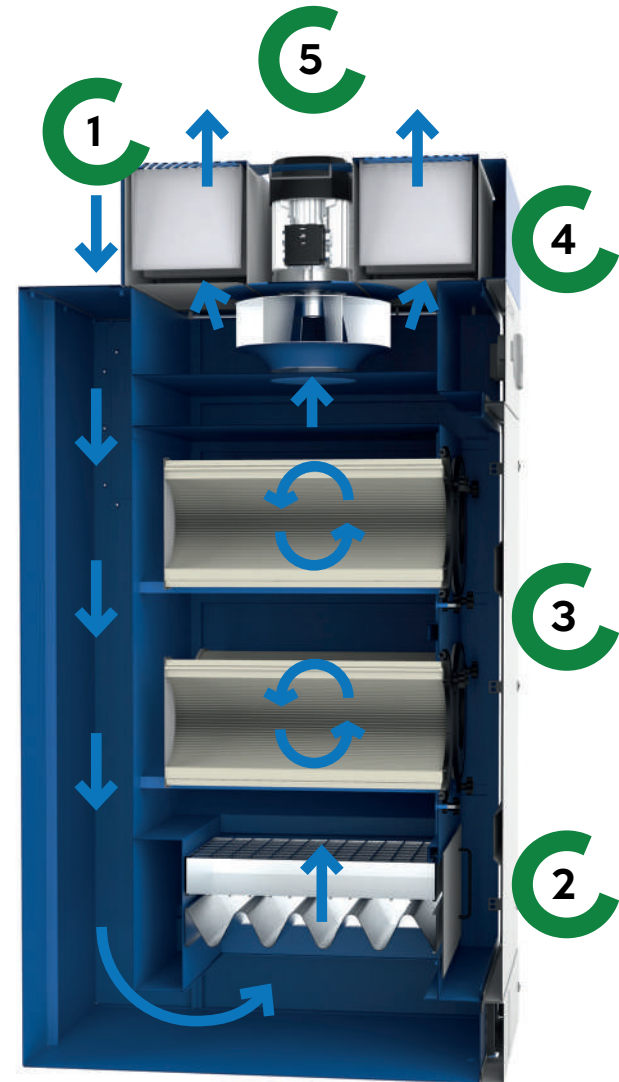
### Post filtration (optional):

Absolute HEPA filter very high efficiency, H13 classification.

5

### Air exit:

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



# CONSTELLATION ADVANTAGES

## Clean air:

Progressive filtration consisting of five different filter elements to ensure healthy air quality in the workshop.

## Filter control:

Constellation is standard supplied with a differential manometer to continuously monitor filter clogging status.



HEPA

Red light (R)

indicates that the filters must be replaced

HEPA

Green light (G)

indicates initial clogging of the filters

HEPA

Blue light (B)

indicates that the filters are clean

## SMART LED:

An intelligent visual system combined with RDP1 to indicate the state of the filter elements.

## RDP1:

A digital control unit in alternative to the manometer, to monitor the unit's main operating parameters.



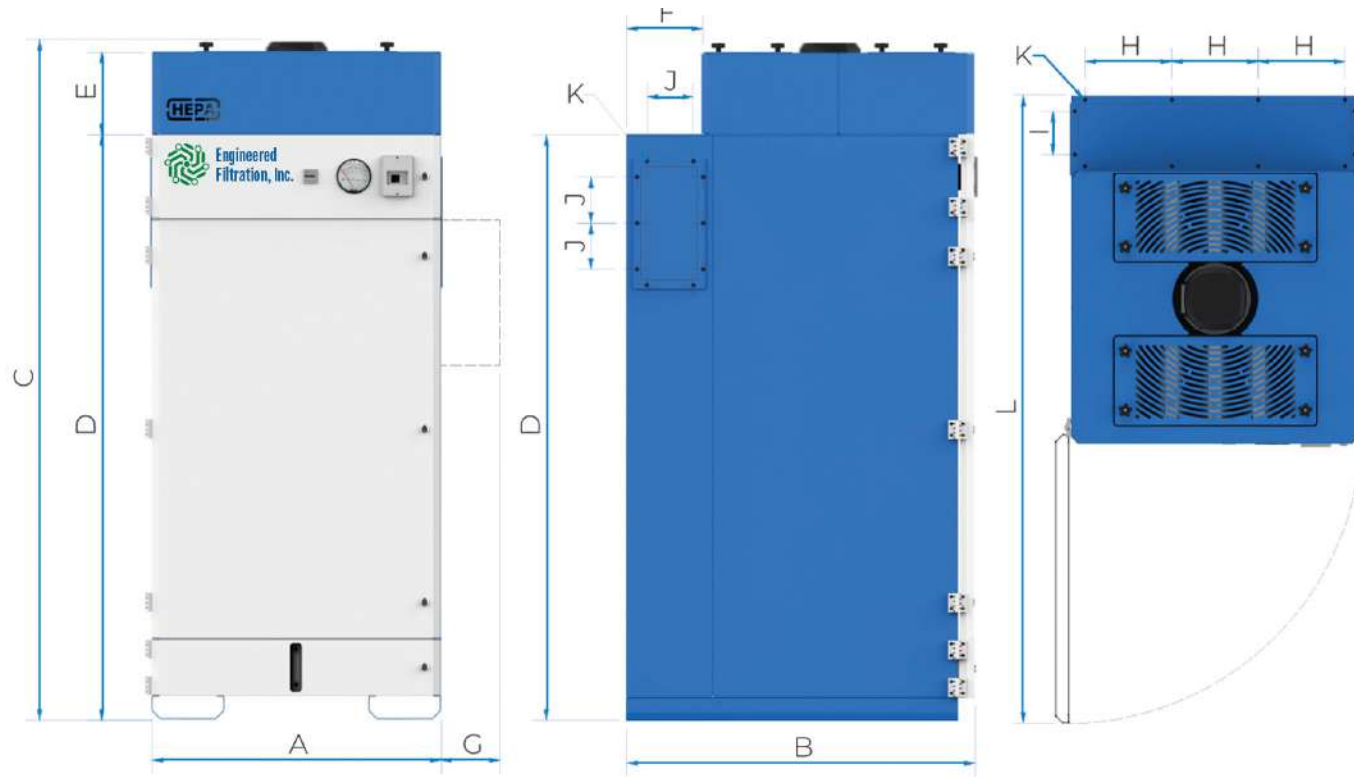
### **Installation on a single machine:**

The Constellation range is designed for installation on a single machine tool with large dimensions.

### **Centralized installation:**

Constellation is also suitable for centralized installation on multiple machine tools.

CONSTELLATION  
**TECHNICAL DETAILS**



**Constellation**

	<b>A</b> (mm/in)	<b>B</b> (mm/in)	<b>C</b> (mm/in)	<b>D</b> (mm/in)	<b>E</b> (mm/in)	<b>F</b> (mm/in)	<b>G</b> (mm/in)	<b>H</b> (mm/in)	<b>I</b> (mm/in)	<b>J</b> (mm/in)	<b>K</b>	<b>L</b> (mm/in)
<b>2 / 3</b>	650/25	1210/47	2370/93.3	2050/80	300/11	261/10	0	180/7	150/5	160/6	M8	1800/70
<b>4 / 5</b>	1000/39	1210/47	2380/93.7	2050/80	300/11	261/10	0	300/11	150/5	160/6	M8	2200/86
<b>7 / 8</b>	1450/57	1260/49	2470/97.2	2050/80	300/11	311/12	300/11	300/11	150/5	160/6	M8	2600/102
<b>10 / 12</b>	1450/57	1260/49	3050/120	2540/100	300/11	311/12	300/11	450/17	150/5	160/6	M8	2600/102



**2                      3                      4                      5                      7                      8                      10                      12**

<b>Power (kW/HP)</b>	1.5/2	2.2/2.9	3/4	4/5.36	5.5/7.37	7.5/10	11/14.75	15/20
<b>Max. flowrate (m<sup>3</sup>/h/cfm)</b>	2,200/1,294	3,000/1,765	4,100/2,400	5,000/2,942	6,800/4,002	8,000/4,708	9,800/5,768	12,000/7,062
<b>Pressure (mm H<sub>2</sub>O)</b>	115	150	160	200	220	250	280	300
<b>N° of cartridges</b>	2	2	4	4	6	6	9	9
<b>Filtration surface (mq)</b>	20	20	40	40	60	60	90	90
<b>Weight (Kg/lbs)</b>	315/694	325/716	450/992	472/1040	571/1258	593/1307	788/1737	830/1829
<b>Noise level w/out HEPA (dB)</b>	< 75	< 75	< 80	< 80	< 80	< 80	< 85	< 85



# **Engineered Filtration, Inc.**

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