



Engineered  
Filtration, Inc.

**OIL MIST  
COLLECTORS**



**ORION**

ORION

# The premium range of industrial mist collectors.

Orion presents the latest generation in oil mist collectors, six models specifically designed for heavy-duty, high-productivity machine tools.

ORION



400 / 800



1200 / 1600



2000 / 2400

# WORKING PROCESS

1

## Air entry:

Air inside the machine tool is channeled into the air filter's suction inlet and passes through 3 filtration stages: pre-filter, main filter and final filter.

2



## Pre-filter:

A pre-treatment section consisting in a washable metallic filter (G2 efficiency) a washable drop separator (for emulsion) or a multi-layer, glass fiber filter (for oil).

3

## Main filter:

Cellulose, folded cartridge filter with a wide filtration surface and high filtration efficiency, over 95% (F9), covered with a coalescent filter.

4

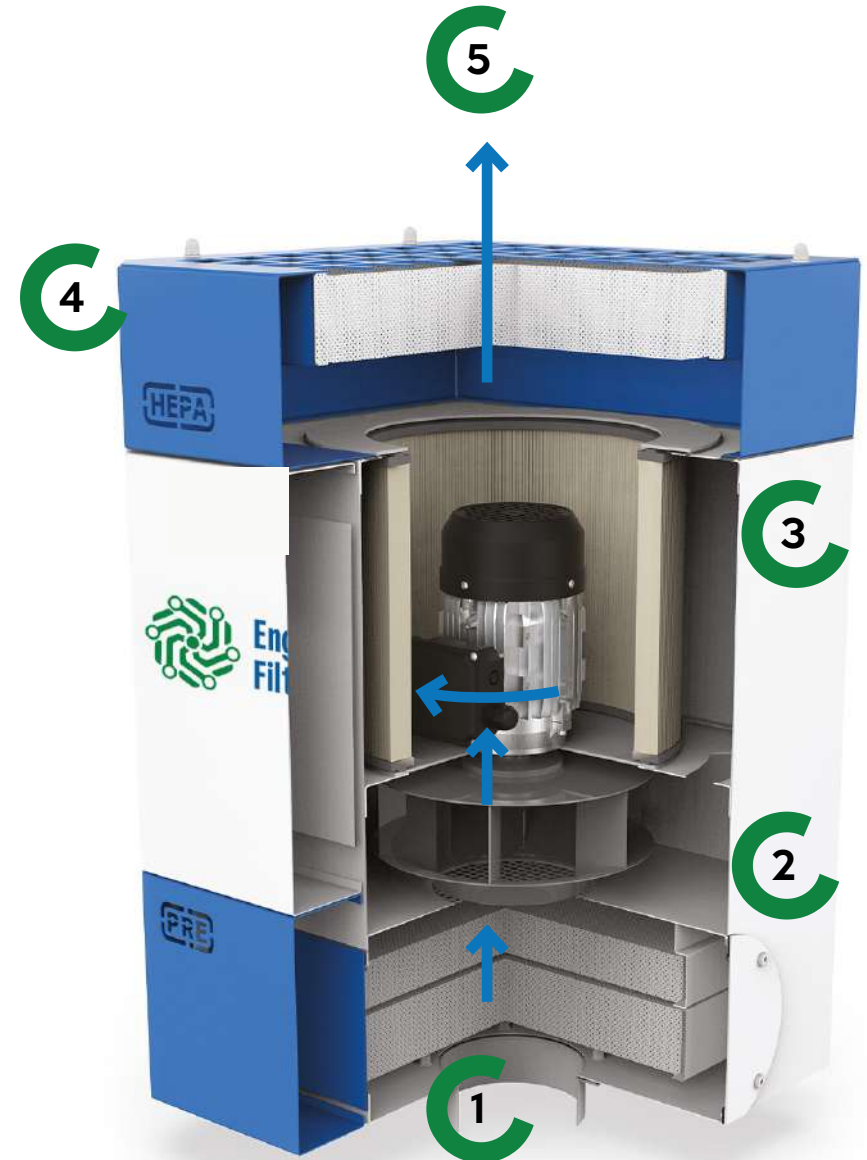
## Final filter (optional):

Absolute HEPA filter class H13. Efficiency 99.95%.

5

## Air exit:

The filtered air is reintroduced into the working environment and the re-condensed oil inside the oil mist collector is reintegrated into the machining process thanks to a practical drainage hose.



ORION  
**ADVANTAGES**

**Progressive filtration:**

Five filter elements with progressive filtration efficiencies, equipped with a manometer to monitor and ensure filtration efficiency.

**Energy efficiency:**

Special centrifugal fans guarantee high performance with low energy consumption.



**Blue light**  
indicates that  
the filters are  
clean

**Red light**  
indicates that the  
filters must be  
substituted

**SMART LED:**

Orion is equipped with an intelligent visual system which shows the status of the filter elements.

**LED ON:**

The retro-illuminated, blue Engineered Filtration, Inc. logo indicates that the unit is in function.



*Orion can be directly mounted on the machine tool's roof.*



### **Installation made easy:**

An exclusive system provides a choice of 3 different suction points, quick and easy installation on the machine tool.

### **Modular:**

There are six models each offering various air flow rates, allowing you to select the most appropriate unit for your machine tool.

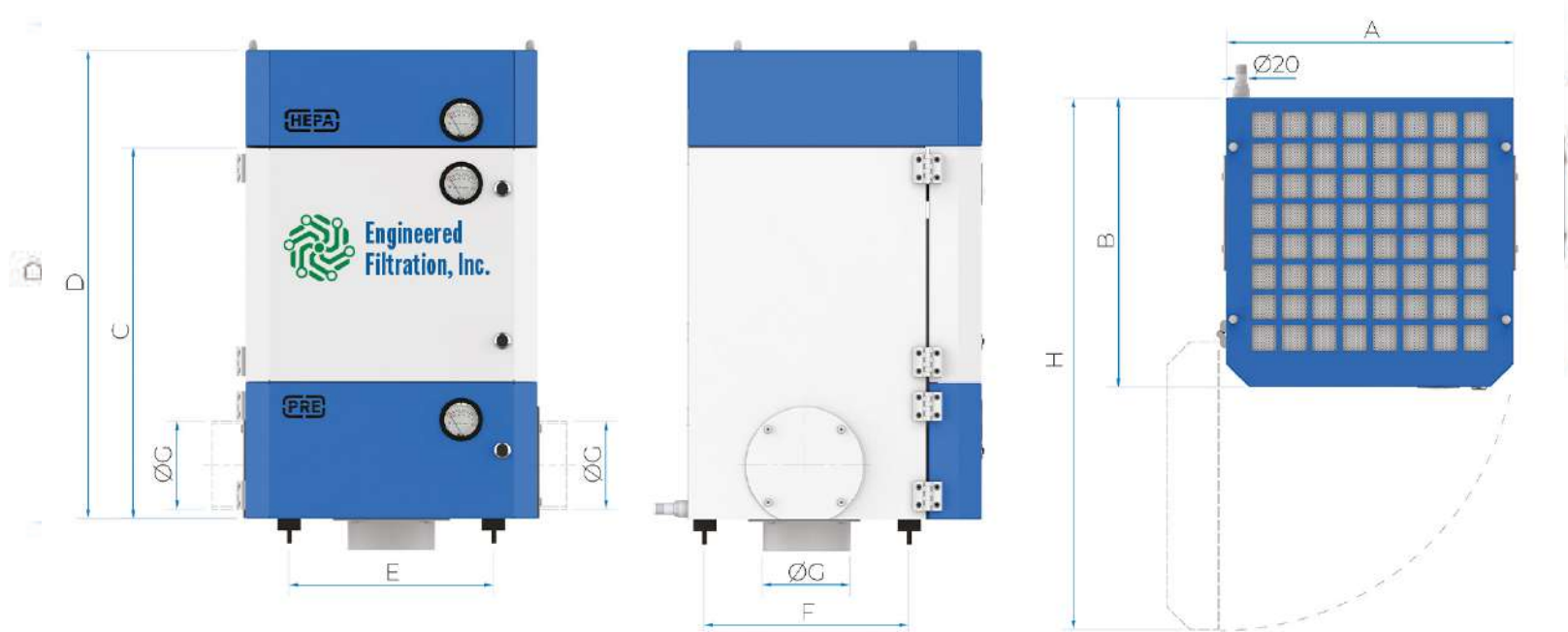
### **Versatile:**

Different filter elements to filter oil or emulsion without needing to make structural changes to the mist collector.



*Or on a stand next to the machine tool!*

ORION  
**DIMENSIONS AND TECHNICAL DETAILS**



**Orion**

	<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>400 / 800</b>	400/15	450/17	515/20	650/25.5	250/9	250/9	100 ø	770/30
<b>1200 / 1600</b>	500/19	500/19	635/25	800/31	350/13	350/13	150 ø	920/36
<b>2000 / 2400</b>	600/23	600/23	685/26	850/33	450/17	450/17	200 ø	1120/44



**400      800      1200      1600      2000      2400**

**Flowrate (m<sup>3</sup>/h/cfm)**

500/294    750/441      1000/588    1500/883      1850/1088    2100/1236

**Pressure (mm H<sub>2</sub>O)**

69      60      70      80      100      121

**Power (kW/HP)**

0,18/0,24    0,25/0,33      0,37/0,50    0,55/0,74      0,75/1      1,1/1,47

**Weight (Kg/lbs)**

46/101    47/103      61/134      63/138      83/182      86/189

**Noise level without HEPA (dB)**

64      65      68      72      74      77



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