



# ARO-400 Multi-Stage Oil Mist Collector

## Multi-Stage

Progressive Separation

## Depth Filters

Reduced potential of plugging

## Cross Flow Design

Fluid quickly drains back to sump

Long filter life

Low operating costs

Low maintenance

Clean air

### Small but big on ability !

The ARO multi-stage oil mist collectors separate mist in progressive stages reducing the potential of plugging.

Filters are depth loading and designed to drain, suitable for 24/7 operation. Cross-flow filter design, air flow is horizontal, oil drains vertical down.

Ideal for high pressure coolant and oil.

Removes mist, smoke and bacteria.

Unique 1<sup>st</sup> and 2<sup>nd</sup> separation stages.

Optional On-Line Cleaning system

### Separation Stages:

The innovative 1<sup>st</sup> stage `ME` Mechanical Element separates up to 90% of the oil mist and swarf. The smooth metal surfaces quickly drains fluid back to the sump.

The 2<sup>nd</sup> stage `AG` Agglomerator filter is very unique, manufactured in layers of stainless steel wire mesh weaved with oil attracting fibers. Efficiency is high as the air travels through a bed of coarse and fine fibers at low velocity. The AG media is very durable, lasting 10 – 15 years. Can be washed.

Used only for coolant applications.

The 3<sup>rd</sup> stage `CM` Coolant Mist filter is depth loading fiber bed filter that capture small mist particles. Typical life 1 – 3 years.

For oil applications, 2<sup>nd</sup>+3<sup>rd</sup> stage `OM` Oil Mist pack is an unique two stage depth loading fiber bed filter. The `OM` can be supplied in 3 efficiencies.

Typical life 1 – 3 years.

Final 4<sup>th</sup> stage `HF` HEPA filter captures sub-micron mist, smoke and bacteria.

Efficiency 95% @ 0.3 µm is standard, optional 99.9% @ 0.3 µm.

Typical life 2 – 4 years

HEPA filter is made with exclusive heavy duty filter media, no other product holds as much or lasts as long.

### Specification:

Air Flow	350 – 450 cfm
Machine tool enclosure	Up to 125 ft <sup>3</sup>
Filter Pressure, Max Motor	3.5" wg
(motorized impeller)	0.75 hp
Voltage (amps)	115/1/60 (4.9)
	230/3/60 (1.6)
	460/3/60 (0.93)
Temperature (max)	160°F / 70°
Weight	220 lbs
Length	21" frame, 32" overall
Width	21"
Height	36"
Inlet connection	6" Ø
Sound	90 dB(A)
Clean air measurement	HEPA filter 95% < 0.050 mg/m <sup>3</sup>
	HEPA filter 99.9% < 0.010 mg/m <sup>3</sup>

### Options:

Coolant or Oil filters	Installation Kit	Motor starter
HEPA filter 95% or 99.9% @0.3 µm	Pillar stand	Variable speed control
Right or left hand air flow	Wall mount	
	Portable unit	





## ARO Filter Stages

### **Multi-Stage**

*Progressive  
Separation*

### **Depth Filters**

*Reduced  
potential of  
plugging*

### **Cross Flow Design**

*Fluid quickly  
drains back to  
sump*

*Long filter life*

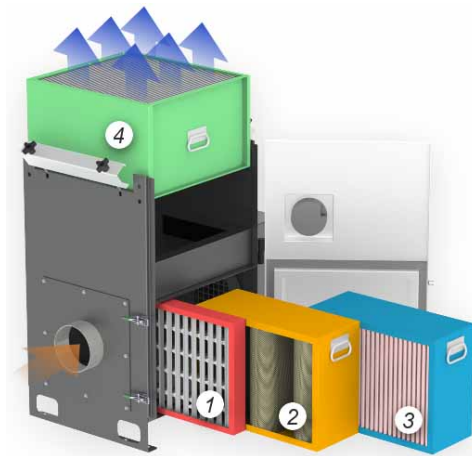
*Low operating  
costs*

*Low  
maintenance*

*Clean air*

### **Coolant Filter Stages**

- 1 ME Mechanical Element
- 2 AF Agglomerator Filter
- 3...CM Coolant Filter
- 4...HF HEPA Filter



### **Oil Filtration Stages**

- 1 ME Mechanical Element
- 2+3...OM Oil Mist Pack
- 4.....HF HEPA Filter

