



# ARO-1400 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

### For medium sized machine tools!

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 down vertically.

Ideal for high pressure coolant and oil.

Removes mist, smoke and bacteria.

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

### 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.

For oil applications, 3<sup>rd</sup> stage 'OM' Oil Mist fibre bed pack is an innovative two stage depth loading filter.

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	1400 – 1,700 cfm
Machine tool enclosure	Up to 500 ft <sup>3</sup>
Filter Pressure, Max	3.5" wg
Motor	2 hp
Voltage (amps)	230/3/60 (5.5) 460/3/60 (2.8) 575/3/60 (2.2)
Temperature (max)	160°F / 70°
Weight	340 lbs
Length	25" frame, 49" overall
Width	25"
Height	42"
Inlet connection	10" Ø
Sound	72 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	VFD motor starter
Right or left hand suction	Wall mount	
Inlet connection 8" Ø	Portable unit	



Shown, left hand suction

## ARO Filter Stages

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*Progressive  
Separation*

### **Depth Filters**

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### **Cross Flow Design**

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*Long filter life*

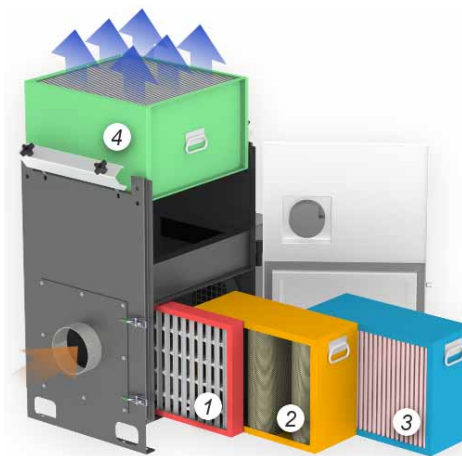
*Low operating  
costs*

*Low  
maintenance*

*Clean air*

### **Coolant Filter Stages**

- 1 'ME' Mechanical Element
- 2 'AF' Agglomerator Filter
- 3 'CM' Coolant Fibre Bed Filter
- 4 'HF' HEPA Filter



### **Oil Filtration Stages**

- 1 'ME' Mechanical Element
- 2 'DE' Demister Element
- 3 'OM' Oil Mist Fibre Bed Filter Pack
- 4 'HF' HEPA Filter

