



## ARO-1400 Multi-Stage Oil Mist Collector

### For medium to large size 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 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

*Long filter life... Low operating costs... Low maintenance... Clean air*

### 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 agglo pack 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  $\mu\text{m}$  is standard, optional 99.9% @ 0.3  $\mu\text{m}$ . Typical life 2 – 4 years

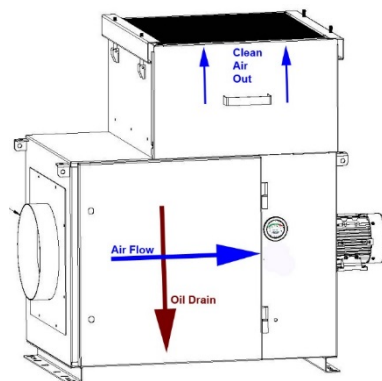
*HEPA filter is made with exclusive heavy duty filter media, no other product holds as much or lasts as long.*

### Specifications:

Air Flow	1,300 – 1,550 cfm
Machine tool enclosure	up to 500 ft <sup>3</sup>
Filter Pressure, max	3.5" wg
Motor	2 hp
Voltage (amps)	230/460/3/60 (5.5/ 2.8) 575/3/60 (2.2)
Speed	3450 rpm
Temperature, max	160°F / 70° C
Weight	330 lbs
Length	36" frame, 46" overall
Width	25"
Height	41"
Inlet connection	10"
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>

### Optional:

HEPA Filter 99.9% @ 0.3 $\mu\text{m}$	Wall mount
Installation kit	Pillar stand
Motor starter	Portable unit
VFD motor starter	On-Line Cleaning system



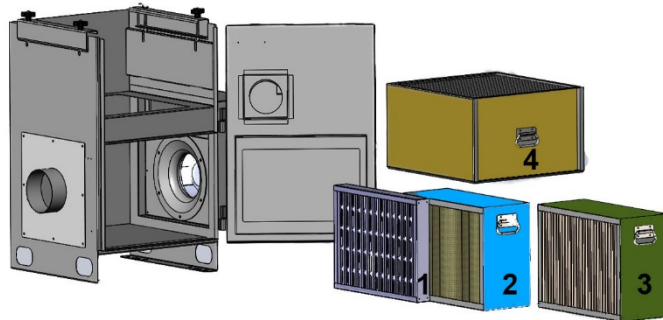
Shown, left hand door



## ARO-1400 Multi-Stage Oil Mist Collector

### Coolant Filtration Stages:

- 1 `ME` Mechanical Element
- 2 `AG` Agglomerator filter
- 3 `CM` Coolant Mist filter
- 4 `HF` HEPA Filter



### Oil Filtration Stages:

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

