



ARO-1100 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 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 down vertically.

Ideal for high pressure coolant and oil.

Removes mist, smoke and bacteria.

Unique 1st and 2nd separation stages.

Separation Stages:

The innovative 1st 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 2nd 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 3rd stage 'CM' Coolant Mist filter is depth loading fiber bed filter that captures small mist particles.

For oil applications, 2 high efficiency "OM" fibre bed filters are used.

Typical life 1 – 3 years.

Final 4th 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	1000 – 1,300 cfm
Machine tool enclosure	Up to 350 ft ³
Filter Pressure, Max	3.5" wg
Motor	2 hp
Voltage (amps)	230/3/60 (5.5) 460/3/60 (2.7) 575/3/60 (2.2)
Temperature (max)	160°F / 70°
Weight	340 lbs
Length	25" frame, 49" overall
Width	25"
Height	42"
Inlet connection	8" Ø (optional 10")
Sound	71 dB(A)
Clean air measurement	HEPA filter 95% < 0.050 mg/m ³ HEPA filter 99.9% < 0.010 mg/m ³

Options:

Coolant or Oil filters	Installation Kit	Motor starter
HEPA filter 95% or 99.9% @0.3 µm	Pillar stand	VFD motor starter
Odor-Rid filter	Wall mount	Inlet connection 10" Ø
Right or left hand suction		



Shown, left hand suction

ARO-1100 / 1400 Filter Stages

Multi-Stage

*Progressive
Separation*

Depth Filters

*Reduced
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plugging*

Cross Flow Design

*Fluid quickly
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Long filter life

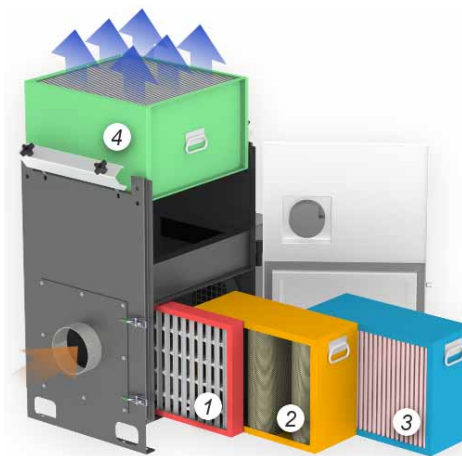
*Low operating
costs*

*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
- Optional "OR" Odor-Rid Filter



Oil Filtration Stages

- 1 'ME' Mechanical Element
 - 2 'DE' Demister Element
 - 3 'OM' #5 Oil Mist Fibre Bed Filter
 - 4 'OM' #7 Oil Mist Fibre Bed Filter
 - 5 'HF' HEPA Filter
- Optional
'OR' Odor-Rid Filter

