



ARO-4000 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 large size machine tools and central systems!

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 1st and 2nd separation stages.

Optional On-Line Cleaning system

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 capture small mist particles. . Typical life 1 – 3 years.

For oil applications, 2nd+3rd 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 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	3400 – 4100 cfm
Machine tool enclosure	Up to 3000 ft ³
Filter Pressure, Max	3.5" wg
Motor	7.5 hp
Voltage (amps)	230/3/60 (17.0) 460/3/60 (8.5) 575/3/60 (6.8)
Temperature (max)	160°F / 70°
Weight	1200 lbs
Length	74"
Width	25"
Height	79"
Inlet connection	18" Ø
Sound	74 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	Floor stand	VFD motor starter
Right or left hand suction	Wall mount	



Shown, left hand suction

ARO-4000 Filter Stages

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Coolant Filter Stages

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



Oil Filtration Stages

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

