

# MISTMAX<sup>®</sup> SERIES

HIGH EFFICIENCY MIST COLLECTOR™  
Featuring Long-Life Performance

**MICROAIR**

**Clean. Easy. RED.**





# The Future Of Oil Mist Filtration Is Here

- Patented 5-Layer Filter Technology
- Requires Far Less Maintenance or Filter Replacements Than Existing Technology
- Filter Life 1-5 Years
- Made in the U.S.A.
- 99.98% Efficient Without Additional HEPA Filters
- Price Competitive with Foreign Manufacturers
- Next-Day Filter Shipment
- Built-in Nema 4 Motor Starter/Overload with push-button start/stop
- "Super Seal" Locking Mechanism
- Rugged Construction
- Heavy-Duty Components
- Large Selection of Capacities

## Ideal for controlling oil and coolant mist in these applications:

- High-Speed Machining Centers
- Heat Treating
- Cold Drawing
- Gear Cutting
- Grinding with Straight Oil
- CNC Turning with Straight Oil
- Forging Operations and Cold Pressing
- Grinding (wet)
- Turning (wet)
- Milling (wet)
- Machining (wet)

**MISTMAX™ High Efficiency Mist Collector** - If you are tired of the maintenance headaches and costs involved with frequent change-out of bag filters, **MISTMAX** is something you should consider. Heavy-duty cabinet design with blower module, filter module equipped with MISTMAX high efficiency long-life filters, producing 600-3600 CFM, floor stand, two minihelic filter gauges (prefilter section and main filter section), standard 2" mesh / 2" baffle prefilter combination and upblast exhaust.



# Applications To Meet Your Needs



**MistMax high-efficiency mist collectors provide for a more productive work environment by reducing coolant and machining oil mist.**



**MM1200 Ducted to Multiple HAAS High-Speed Machining Centers.**



**MM1200 equipped with optional Hepa afterfilter, installed on High-Speed Machining Center.**



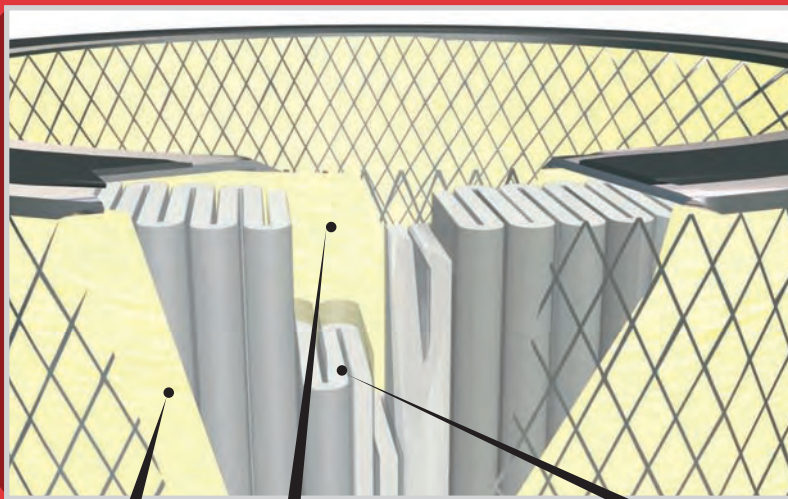
**MistMax high-efficiency mist collectors are equipped, standard, with Nema 4 motor starter/overload protector and push button start/stop switch.**



# Efficient. Proven. RED.

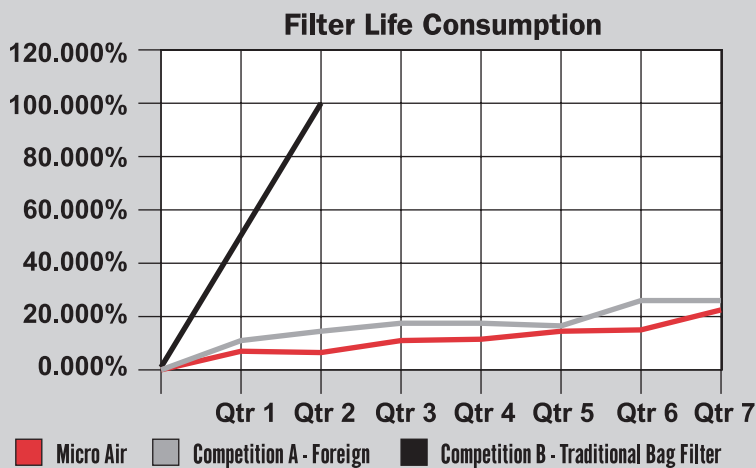
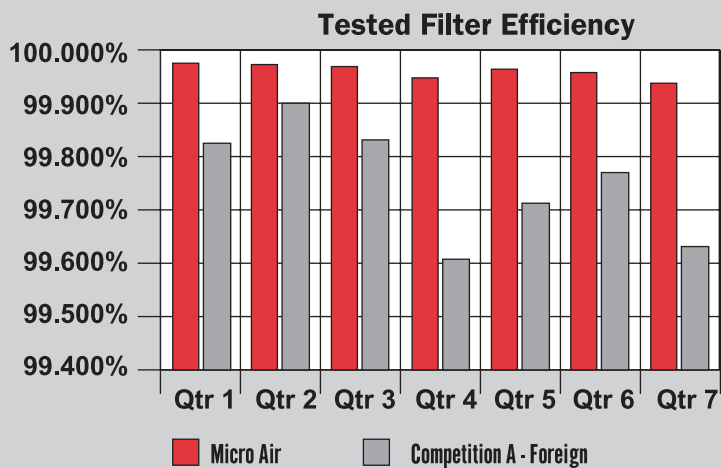
## Here's Proof:

Our patented MISTMAX filter technology utilizes a combination of Brownian Diffusion (smaller particles randomly combine to form larger, more easily removed particles) and conventional oil mist filtration techniques to provide a highly efficient filter, yet also offers unmatched cost effectiveness in terms of up-front investment, replacement filter costs and overall maintenance costs of equipment.



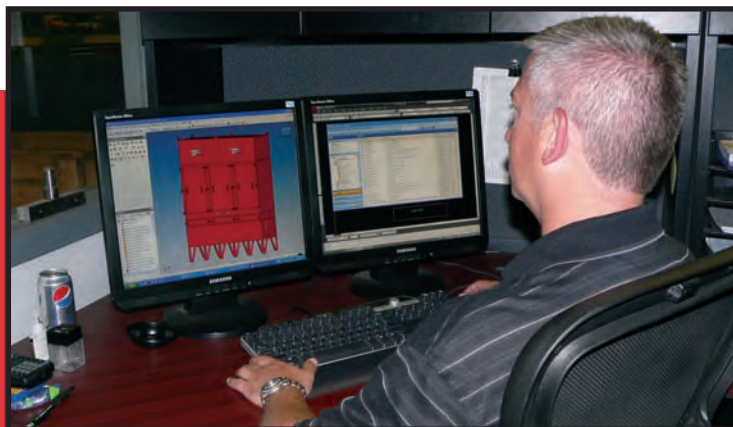
**Outer Drain Layer    Inner Drain Layer    Proprietary Inner Core**

Our test data shows that the MISTMAX from Micro Air outperforms other technology in the market and offers extremely long life compared to other available technologies.

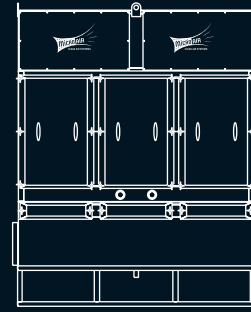
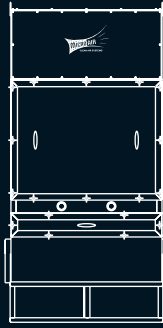


Efficiency	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Qtr 7
<b>Micro Air</b>	99.973%	99.966%	99.971%	99.953%	99.971%	99.968%	99.950%
<b>Competition A-Foreign</b>	99.746%	99.599%	99.841%	99.612%	99.713%	99.775%	99.640%
<b>Competition B-Traditional Bag Filter</b>	99.830%	99.900%	Filters Failed	Filters Failed	Filters Failed	Filters Failed	Filters Failed
Longevity	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Qtr 7
<b>Micro Air</b>	8.33%	8.33%	12.50%	13.33%	16.67%	16.67%	21.67%
<b>Competition A-Foreign</b>	12.50%	15.00%	18.75%	18.75%	17.50%	22.50%	22.50%
<b>Competition B-Traditional Bag Filter</b>	50.00%	100.00%	Filters Failed	Filters Failed	Filters Failed	Filters Failed	Filters Failed

Notes: Testing done in a controlled setting at the Micro Air Engineering testing facility. Coolant was water soluble with 11:1 water to oil ratio. Test data and filter longevity based on 4 x loading factor and extrapolated run time of 2,275 years at 80 hrs. Average input of oil mist was 214 mg/cubic meter of air. Efficiency measured with DUSTRAX model 8520 Aerosol monitor @ 10 microns below measuring particulate volume.



# MISTMAX Specifications



Larger  
Styles  
Available  
(consult factory)

MODEL	MM600	MM1200	MM2400	MM3600
# of Filters	1	2	4	6
Actual CFM @ external static pressure (inches of w.c.)	600 cfm@4"	1200 cfm@6"	2400 cfm@4.4"	3600 cfm@4.4"
Horsepower/Voltage	2HP-120V	5HP-208-230/460 V	10HP-208-230/460 V	Dual 7 1/2 Hp - 208-230/460 V
Filter Efficiency	99.97%	99.98%	99.98%	99.98%
Motor Controls/ Start-Stop Switch Included?	YES-Std.	YES-Std.	YES-Std.	YES-Std.
Sound Levels db(A) at 5 feet	70.0 db(A)	74.5 db(A)	80 db(A)	80 db(A)
Inlet Options	Bottom 6" Collar	2 ea. 6" or 1 ea. 10" Collars	3 ea. 14" Collars	3 ea. 14" Collars
Height (in)	30.5"	93.5"	103.5"	97.5"
Width (in)	23.5"	25"	50"	78"
Depth (in)	24.0"	25"	25"	25"
Unit Weight (lb.)	120	600	1200	1700

## STANDARD FEATURES

<b>Construction</b>	14 gauge galvaneal steel
<b>Paint</b>	Industrial grade crimson red, textured baked enamel, inside & outside.
<b>Motor Controls</b>	Solid State motor starter and overload with on/off switch in NEMA 4 Enclosure.
<b>Standard Prefilters</b>	Permanent Washable 2" Aluminum Mesh followed by a Washable 2" Baffle Impingement Filter.
<b>Mist Collection/ Disposal</b>	Mist is drained back into the inlet plenum. Plenum equipped with 1" NPT port for connection to drain loop back into sump or other containment device.
<b>Floor Stand</b>	Heavy gauge floor stand constructed of 3/16" thick steel.
<b>Filter Locking</b>	"Super Seal" double cam action levers ensure error-free sealing.

## OPTIONS

<b>Upgrade to Mist-X Prefilters</b>	Eliminates 10-15% more Mist at the prefiltration stage with a 0.5" lower pressure drop than the standard baffle/mesh prefilter combination.
<b>99.97% DOP Hepa Safety Filter</b>	99.97% DOP rated Hepa(s) in a filter module that is bolted onto the exhaust section of the MistMax unit.
<b>Plenum Direction</b>	Positioned to meet your specs.
<b>Intelli-Touch™</b>	Energy Saving Control Panel



# Other Solutions for Machining Mist & Smoke



**Horizontal 6000 cfm Mist collectors mounted in race-track Configuration for ambient capture of mist.**



**OM3510 Oil Mist Multidrop-ducted to three CNC lathes.**



**OM3510 on custom floor stand, ducted to CNC Milling Machine.**



**OM3510 ducted to lathe.**

Anyone who produces coolant mist and smoke knows the problems that arise if you don't effectively capture and filter it. From oil puddles on machinery and floors to the blue haze across the plant, oil mist and smoke become a maintenance issue. Oil residue is costly to clean up, may cause problems with equipment that are costly to repair.

From individual machine mounted units like our OM550DD to portable capture units to large central systems, we can offer filtration options that will solve any mist problems found in the industry. All of our units offer cost effective and low-maintenance removal of the pollutants. In most cases, we can return costly cutting fluid to your machinery. With our Mist-X mist eliminator, we can minimize filter costs.



**OM550DD**  
550 cfm machine mount



**OM6000**  
Vertical 6000 cfm



**OM6000DD**  
Vertical 6000 cfm direct drive



**OM3510**  
Vertical 1500-3500 cfm



**OM500**  
Vertical 800 cfm



**MX3510 w/ Mist Module**  
Horizontal 1500-3500 cfm



**MX6000 w/ Mist Module**  
Horizontal 6000 cfm

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AIR

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AIR SYSTEMS

# MICRO AIR®

## Clean. Easy. RED.

For more than 35 years, Micro Air has manufactured clean air systems that are simple to use and remarkably efficient.

Call us today, or visit:

[www.microaironline.com](http://www.microaironline.com)

for a **FREE EVALUATION AND PRICE QUOTE.**

### APPLICATIONS

- **WELDING** smoke and fumes
- **MACHINING** mist and smoke
- **METALWORKING** dust
- **PROCESS** dust and powder
- **COMMERCIAL** applications

### SOURCE CAPTURE

Hoods, arms, booths, enclosures, portable units and direct-mounted units.

### AMBIENT COLLECTION

Floor, ceiling and wall-mounted units.



## Intelli-Touch™ Energy Savings Control Panel

- Reduces energy consumption by using only the brake horsepower needed to maintain the set CFM. Built-in variable frequency drive automatically slows or speeds the motor RPM based on CFM needed at the running static pressure.
- Reduces peak energy consumption costs by utilizing a soft-start or slow ramp up of motor speed, eliminating sudden surges of power usage.
- Increases expected filter life by automatically adjusting filter cleaning based on system needs.
- Can dramatically reduce compressed air usage.
- Allows for quieter operation through utilization of lower fan speeds.
- Built-in pulse on demand feature and static pressure monitoring system eliminates the need for a Magnahelic or Photohelic gauge.
- Eliminates the need for external dampers or slide gates in ductwork. Simply touch the arrow on the touchscreen to adjust CFM.
- Built-in diagnostics feature tracks pertinent data such as CFM, Static Pressure, amp draw, RPM pulse settings, hours of operation.
- Capability to change usage. Size system for 20 Hoods in the future, use only 10 today.
- Application specific (plasma, laser, wood-working, grinding, etc.) set-up feature reduces installation time.

Investment payback in as little as 6 months depending on energy costs and application usage. Visit our website, [www.microair.com](http://www.microair.com), and use the savings calculator to see how fast of a payback you can expect.

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Source Capture



Mist Collectors



Dust Collectors



Ambient Air Cleaners



Clean Air Booths



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P.O. Box 1138 • Wichita, KS 67201  
316.946.5875 • FAX 316.219.2995  
e-mail: [info@microaironline.com](mailto:info@microaironline.com) • [www.microaironline.com](http://www.microaironline.com)

Toll-Free  
**1-866-566-4276**

# MICRO AIR

CLEAN AIR SYSTEMS