

# MISTRON SERIES

## Industrial Mist Collectors



### Built to Fit the Application, Every Time.

#### Sized to Meet the Need

Whether the industrial process requires a 2 HP, 1000 CFM collector, or a 30 HP, 16000 CFM unit, every Mistron is custom designed to the needed specifications.

#### Designed for the Contaminant

In addition to sizing the Mistron to fit the need, choice of filter material depends on the target contaminant, whether collecting oil mist, coolant mist, water-based mist, or smoke, or providing odor control. The optional high-density metal mesh washable pre-filter is available for wet grinding applications.

#### Efficient, Quiet, & Low Maintenance Operation

Blower is a direct drive, backward-inclined air foil type for quiet and energy-efficient operation. Horizontal or vertical discharge with exhaust silencers are also available. There are no belts to change or bearings to grease. A sloped drain pan with a 1/2" NPT connection allows for easy removal or recirculation of captured coolant. Hinged and gasketed access doors allow for easy removal and replacement of filter elements. For average machine shop operations, the primary filter element should last a year.

# FILTER 1

#### Current Technology

Oil and water-based coolant mists and smoke are drawn from the machine through an external duct and into the Micro Glass Media. Contaminated air enters the intake plenum and the inlet baffle diffuses the air to distribute it evenly over the impinger surface. The impinger removes large particles and mist and is self-draining. The standard filter is a 65% or 95% high-efficiency micro glass filter for collecting particles down to sub-micron sizes based on AHRAE 52-76 test method. With the vertical design the primary filter bag pockets are suspended in the vertical position improving the drainage of the collected coolant mist.

#### Comparison With Centrifugal Cleaning Units

- The Mistron has up to ten times more filter material area.
- Standard unit can have 95% primary filter capable of removing smoke.
- Free of the serious vibration and noise problems that can result when grinding particles become lodged in filters which are spinning at 3,500 RPM.



1-800-289-0189

Mist & Smoke Collectors

CUSTOM SPECIALISTS FOR INDUSTRIAL NEEDS

# MISTRON SERIES

## Mist and Smoke Collection / Odor Control



Model HMF-1600-20-H with (4) 40% Pre-Filters,  
(8) 95% Micro Glass Bag Filters, HEPA Minipleat After-Filter,  
20 HP, Rated 13,000 CFM

**Built for the Targeted Contaminant  
by the Custom Design Specialists**

### Features

- Custom Sizing to Fit the Application
- Chevron Impinger
- 65% or 95% AHSRAE High-Efficiency Micro Glass Primary Filter
- Hinged & Gasketed Access Doors
- Sloped Drain Pan w/ 1/2" NPT Connection for Easy Removal
- Backward-Inclined Direct Drive Air Foil Type Blowers
- 3PH TEFC Motor on Rubber Vibration Mounts
- Heavy Gauge All-Welded Cabinet with Industrial Blue Enamel Finish

### Typical Applications

- Oil & Water-Based Coolant Mists
- Smoke
- Odor Control
- Machine Shop Operations
- Heavy Equipment Maintenance & Repair
- Dry or Wet Grinding Particulate & Fumes
- Multi-Axis CNC
- EDM
- Turning / Milling

### Options

- Filter Material
- Horizontal or Vertical Discharge w/ Exhaust Silencers
- Floor Mounting or Free-Hanging
- Magnetic Motor Starters
- ASHRAE or HEPA After-Filters w/ Visible or Audible Alarms
- Odor Control w/ Refillable Modules
- Washable Metal Mesh Pre-filter for Grinding Applications
- Finish Color

### Mistron MF Series

MODEL	CFM	Blower		Dimensions		Filter SQ FT
		HP		H x W x D		
MF-120-2	1,250	2		65" x 29" x 34"		120
MF-240-3	2,500	3		65" x 29" x 57"		240
MF-480-5	5,000	5		65" x 67" x 57"		480
MF-720-7.5	7,000	7.5		65" x 85" x 57"		720
MF-960-10	10,000	10		65" x 104" x 57"		960
MF-1600-20	16,000	20		65" x 156" x 57"		1440

Larger / custom sizes available; consult factory.

*Filter 1 has a policy of continuous design improvement and reserves the right to update designs and specifications without notice.*

# FILTER 1

2525 National Dr.  
Garland, TX 75041  
972-278-2664

WWW.FILTER-1.COM