

Supplying Clean Air to Industry



The MistBuster family of self-contained mist removal systems is designed to capture mist and smoke from metalworking applications in the industry. Air Quality Engineering's loyal community of global users provides the continuous input needed to design new generations of mist collection solutions. Research and development focuses on meeting the demands of today's high-speed machining operations associated with oil, water soluble or synthetic coolants, using high pressure coolant pumps on a variety of metals.

The MistBuster can be direct mounted to machine tools or ducted using a flexible array of optional accessories. MistBuster is the superior alternative to conventional centrifugal and media-type systems. Its design maximizes filtration efficiency and minimizes maintenance requirements by attacking possible points of failure found with other mist collection systems.

MistBuster is the best value for a compact, energy efficient, reliable mist collection solution.

- **High efficiency** air filtration through the use of industrial grade electronic cells designed for low static pressure with ultimate efficiency up to 97.8% on all submicron particles, as measured by an independent lab test in accordance with ASHRAE standard 52.2 at 500 CFM.
- **Reliable operation** based on in-depth knowledge of air filtration design, all electrical components are in a sealed compartment, isolated from the air stream and added to our patented DuroClean™ cell to reduce maintenance.
- **Versatile design** through a patented coolant selector switch, the MistBuster electronic line of air cleaners can handle the electronic requirements of water based or oil based coolant collection that cause other air cleaners to fail.
- **Ease of installation** through direct machine mount, ceiling mount, wall mount, or floor mount via a pedestal stand.
- **Comprehensive solutions for a wide range of machining operations** designed for single to multiple machine tool applications using electronic precipitation and for applications requiring it – media and odor control based systems.
- **Compact, energy efficient design** drawing as little as 1 amp under full load, and as small in size as a household microwave.

Air Quality Engineering stands behind the quality of the MistBuster with a limited 36 month warranty.



**AIR QUALITY
ENGINEERING**

Air Quality Engineering, founded in 1973, is proud to offer a continued, superior level of experience in manufacturing complete air filtration systems that provide the highest performance, efficiency, and capacity for the money. Our sales and engineering team's mission is to identify the most cost-effective, high-quality solutions for our customers' needs, whether commercial, industrial or residential.

Next Generation Technology

While electrostatic mist collectors provide a high-efficiency filtration system for mist and smoke collection, they sometimes require frequent washing of the electronic filter cell. Cell washing is required when collected contaminants cause a short circuit in the cell. Using next generation technology, individual test sites have seen service intervals increase from monthly washing, to yearly washing of the collector cells. Individual results will vary.

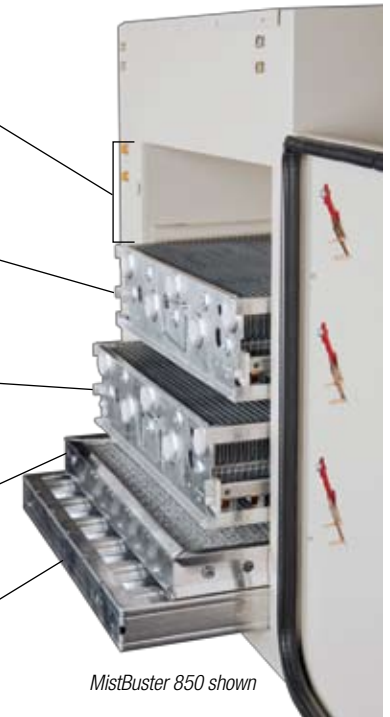


MistBuster's patented next generation technology aims to minimize the short circuits which require the washing of the electronic filter cells through:

- Floating ionizer contact
- Proprietary ceramic insulator design
- Enhanced cell end plates
- Patented collector fin design
- Internal cabinet "air break"
- Patented variable voltage coolant selector

(Patents #6428611 and #7717984)

- Optional 3rd Stage MistBuster High-Efficiency Cell (not shown)
- MistBuster High-Efficiency Cell
- DuroClean™ (Long Life) Electronic Cell
- Aluminum Mesh Impinger
- Durable Metal Design Baffled Impinger



MistBuster 850 shown

MistBuster® Family – The Next Generation in Coolant and Smoke Collection

The MistBuster product family consists of electrostatic precipitators (MistBuster 500, MistBuster 850, and MistBuster 2000) and media based filtration systems (MistBuster 500 Media and MistBuster Infinity).

| Model | MB500 | MB500 Media | MB850 | MB2000 | MB Infinity |
|--------------------------|--|--|---|---|--|
| Airflow | Variable to 500 cfm | Variable to 500 cfm | Variable to 850 cfm | Variable to 1650 cfm @ .6" W.C. | Variable up to 1000 cfm |
| Primary Filter | Electrostatic | Disposable Media | Electrostatic | Electrostatic | Disposable Media |
| Cabinet | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish |
| Power Input | 115 Vac, 60 Hz, 1 ph, 2 amps 230 Vac, 60 Hz, 1 ph, 1 amp | 115 Vac, 60 Hz, 1 ph, 3.5 amps 240 Vac, 60 Hz, 1 ph, 1.7 amps | 115 Vac, 60 Hz, 1 ph, 3.5 amps 240 Vac, 60 Hz, 1 ph, 1.7 amps | 115 Vac, 60 Hz, 1 ph, 4 amps 240 Vac, 60 Hz, 1 ph, 2 amps | 115 Vac, 60 Hz, 1 ph, 9.5 amps 230 Vac, 60 Hz, 1 ph, 4.75 amps |
| Efficiency | Ultimate efficiency up to 97.8% on all submicron particles as measured by independent lab test in accordance with ASHRAE standard 52.2 at 500 CFM. | 95% MERV 14 Filter | Ultimate efficiency up to 99.6% on all submicron particles as measured by independent lab test in accordance with ASHRAE standard 52.2 at 500 CFM. | Ultimate efficiency up to 99.6% on all submicron particles as measured by independent lab test in accordance with ASHRAE standard 52.2 at 1000 CFM. | 95% MERV 14 Filter |
| Filtration Stages | 1st Stage: 2" baffled inertial impinger 2nd Stage: 2" aluminum mesh impinger 3rd Stage: DuroClean (Long Life) Electronic Cell 4th Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module | 1st Stage: 2" baffled inertial impinger 2nd Stage: 2" aluminum mesh impinger 3rd Stage: 95% efficient MERV 14 pleated filter 4th Stage: Optional HEPA filter 99.97% efficiency or Carbon Module | 1st Stage: 2" baffled inertial impinger 2nd Stage: 2" aluminum mesh impinger 3rd Stage: DuroClean (Long Life) Electronic Cell 4th Stage: MistBuster (High-Efficiency) Cell 5th Stage: Optional MistBuster (High-Efficiency) Cell 6th Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module | 1st Stage: 4" aluminum mesh impingement 2nd Stage: DuroClean (Long Life) Electronic Cell x 2 3rd Stage: MistBuster (High-Efficiency) Cell x 2 4th Stage: Optional MistBuster (High-Efficiency) Cell x 2 5th Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module | 1st Stage: 4" aluminum mesh impingement 2nd Stage: 58 sq. ft of lofted microfibre fiberglass media 3rd Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module |

Specifications subject to change without notice.



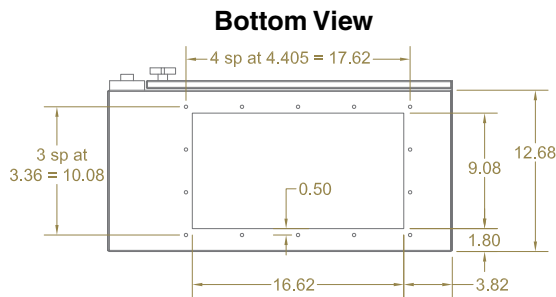
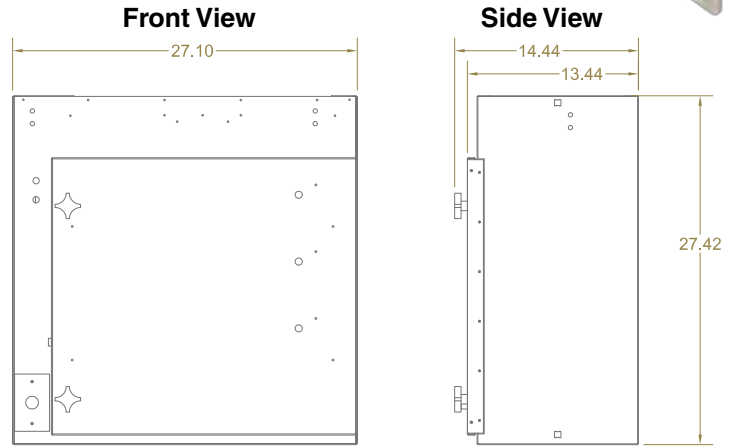
7140 Northland Drive North, Brooklyn Park, MN 55428-1520, USA

PHONE: 800-991-4225 EMAIL: customerservice@ahbinc.com

www.ahbinc.com

MistBuster® 850 - Next Generation

| | |
|--------------------------|---|
| Model | MB850 |
| Airflow | Variable to 850 cfm |
| Cabinet | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish |
| Power Input | 115 Vac, 60 Hz, 1 ph, 3.5 amps 240 Vac, 60 Hz, 1 ph, 1.7 amps |
| Efficiency | Ultimate efficiency up to 99.6% on all submicron particles as measured by independent lab test in accordance with ASHRAE standard 52.2 at 500 CFM. |
| Filtration Stages | 1st Stage: 2" baffled inertial impinger 2nd Stage: 2" aluminum mesh impinger 3rd Stage: DuroClean (Long Life) Electronic Cell 4th Stage: MistBuster (High-Efficiency) Cell 5th Stage: Optional MistBuster (High-Efficiency) Cell 6th Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module |
| Features | Two self-regulating, dual voltage solid state power supply Patented water/oil coolant collector selector Backward curved, vibration-free, direct drive motorized impeller rated at 850 cfm @ .7" W.C. Ten-foot power cord with molded plug Quick release connectors for fast, easy side panel access |
| Dimensions | Cabinet: 27.10"L x 13.44"W X 27.42"H |
| Inlet Opening | 16.62" x 9.08" |
| Weight | 99 lbs installed; 111 lbs shipping (2 Cells) 113 lbs installed; 125 lbs shipping (3 Cells) |
| Accessories | Machine Mount Stand Pedestal Stand Ceiling Mount Kit Wall Mount Kit Plenum Diffuser HEPA Postfilter ESF Postfilter Carbon Module |



Specifications subject to change without notice.



Electrical components isolated from air stream



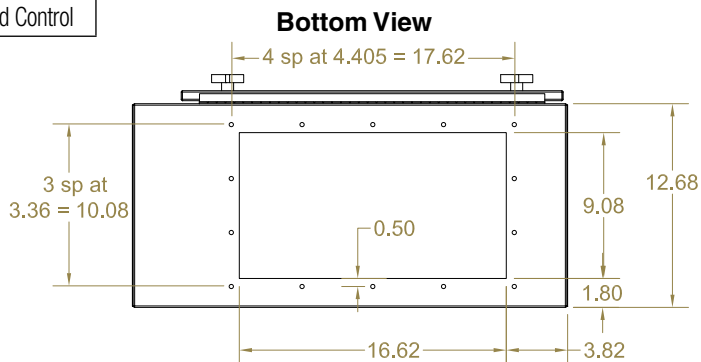
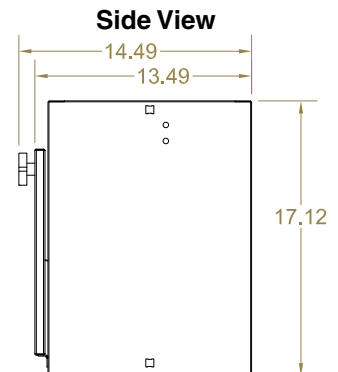
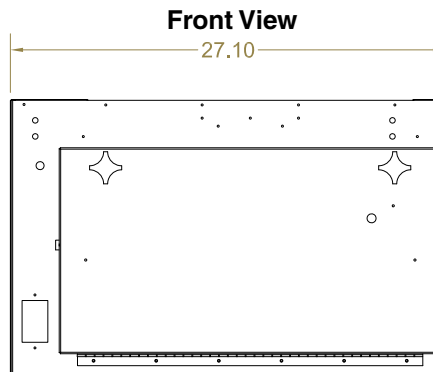
Patented coolant selectors



Quarter-turn quick-release fastener

MistBuster® 500 – Next Generation

| | |
|--------------------------|--|
| Model | MB500 |
| Airflow | Variable to 500 cfm |
| Cabinet | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish |
| Power Input | 115 Vac, 60 Hz, 1 ph, 2 amps 230 Vac, 60 Hz, 1 ph, 1 amp |
| Efficiency | Ultimate efficiency up to 97.8% on all submicron particles as measured by independent lab test in accordance with ASHRAE standard 52.2 at 500 CFM |
| Filtration Stages | 1st Stage: 2" baffled inertial impinger 2nd Stage: 2" aluminum mesh impinger 3rd Stage: DuroClean (Long Life) Electronic Cell 4th Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module |
| Features | Self-regulating, dual voltage solid state power supply Patented water/oil coolant collector selector Patented design for long term high efficiency Backward curved, vibration-free, direct drive motorized impeller rated at 710 cfm Ten-foot power cord with molded plug Quick release connectors for fast, easy side panel access |
| Dimensions | Cabinet: 27.10 "L x 13.49 "W X 17.12"H |
| Inlet Opening | 16.62" x 9.08" |
| Weight | 65 lbs installed; 76 lbs shipping Capable of being shipped via UPS |
| Accessories | Machine Mount Stand Pedestal Stand Ceiling Mount Kit Wall Mount Kit Plenum Diffuser HEPA Postfilter ESF Postfilter Carbon Module Machine Tool Activated Control |



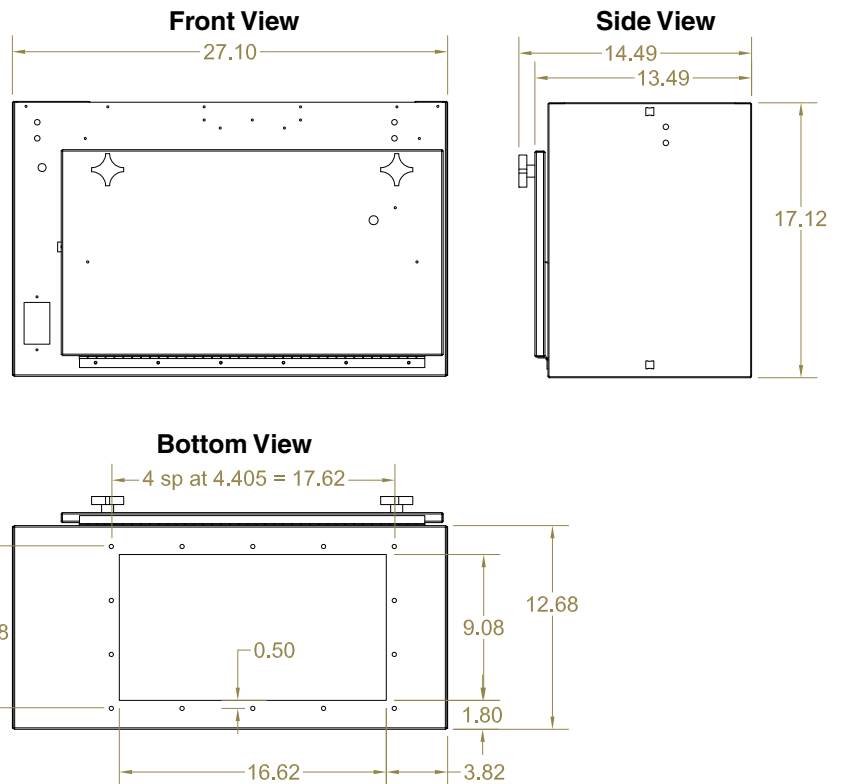
Specifications subject to change without notice.

MistBuster® 500 Media – Next Generation

| | |
|--------------------------|--|
| Model | MB500 Media |
| Airflow | Variable to 500 cfm |
| Cabinet | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish |
| Power Input | 115 Vac, 60 Hz, 1 ph, 3.5 amps 240 Vac, 60 Hz, 1 ph, 1.7 amps |
| Efficiency | 95% MERV 14 Filter |
| Filtration Stages | 1st Stage: 2" baffled inertial impinger 2nd Stage: 2" aluminum mesh impinger 3rd Stage: 95% efficient MERV 14 pleated filter 4th Stage: Optional HEPA filter 99.97% efficiency or Carbon Module |
| Features | Backward curved, vibration-free, direct drive motorized impeller rated at 500 cfm @ 2.0" W.C. Ten-foot power cord with molded plug Quick release connectors for fast, easy side panel access |
| Dimensions | Cabinet: 27.10 "L x 13.49 "W X 17.12"H |
| Inlet Opening | 16.62" x 9.08" |
| Weight | 58 lbs installed; 69 lbs shipping Capable of being shipped via UPS |
| Accessories | Machine Mount Stand Pedestal Stand Ceiling Mount Kit Wall Mount Kit Plenum Diffuser HEPA Postfilter ESF Postfilter Carbon Module Machine Tool Activated Control |



Specifications subject to change without notice.



MistBuster® 2000 – Next Generation

| | |
|--------------------------|--|
| Model | MB2000 |
| Airflow | Variable to 1650 cfm @ .6" W.C. |
| Cabinet | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish |
| Power Input | 115 Vac, 60 Hz, 1 ph, 4 amps 240 Vac, 60 Hz, 1 ph, 2 amps |
| Efficiency | Ultimate efficiency up to 99.6% on all submicron particles as measured by independent lab test in accordance with ASHRAE standard 52.2 at 1000 CFM. |
| Filtration Stages | 1st Stage: 4" aluminum mesh impinger 2nd Stage: DuroClean (Long Life) Electronic Cell x 2 3rd Stage: MistBuster (High-Efficiency) Cell x 2 4th Stage: Optional MistBuster (High-Efficiency) Cell x 2 5th Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module |
| Features | Two self-regulating, dual voltage solid state power supply (standard) Patented water/oil coolant collector selector Backward curved, vibration-free, direct drive motorized impeller rated at 1950 cfm maximum Ten-foot power cord with molded plug |
| Dimensions | Cabinet: 26.00"L x 26.30"W x33.06"H |
| Inlet Opening | 16" x 20.75" |
| Weight | 203 lbs installed; 230 lbs shipping |
| Accessories | Machine Mount Stand Pedestal Stand Ceiling Mount Kit Wall Mount Kit Plenum Diffuser HEPA Postfilter ESF Postfilter Carbon Module |

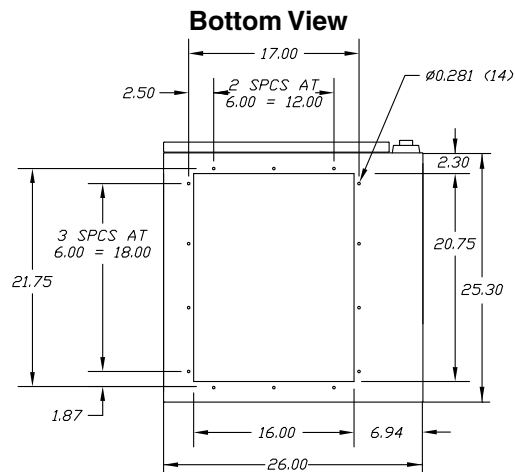
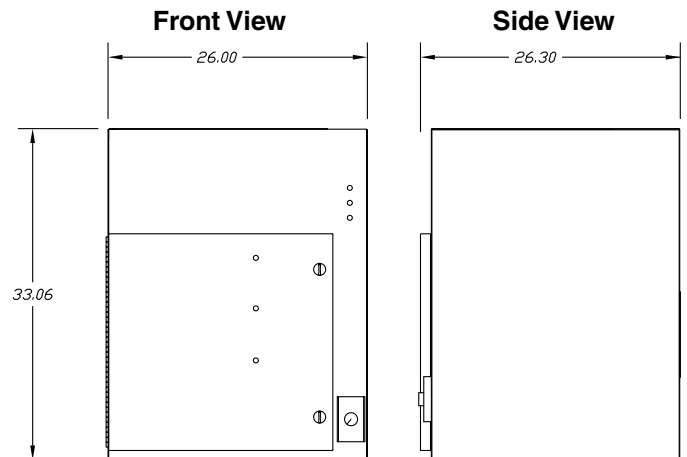
Specifications subject to change without notice.



DuroClean™ (Long Life) Electronic Cell



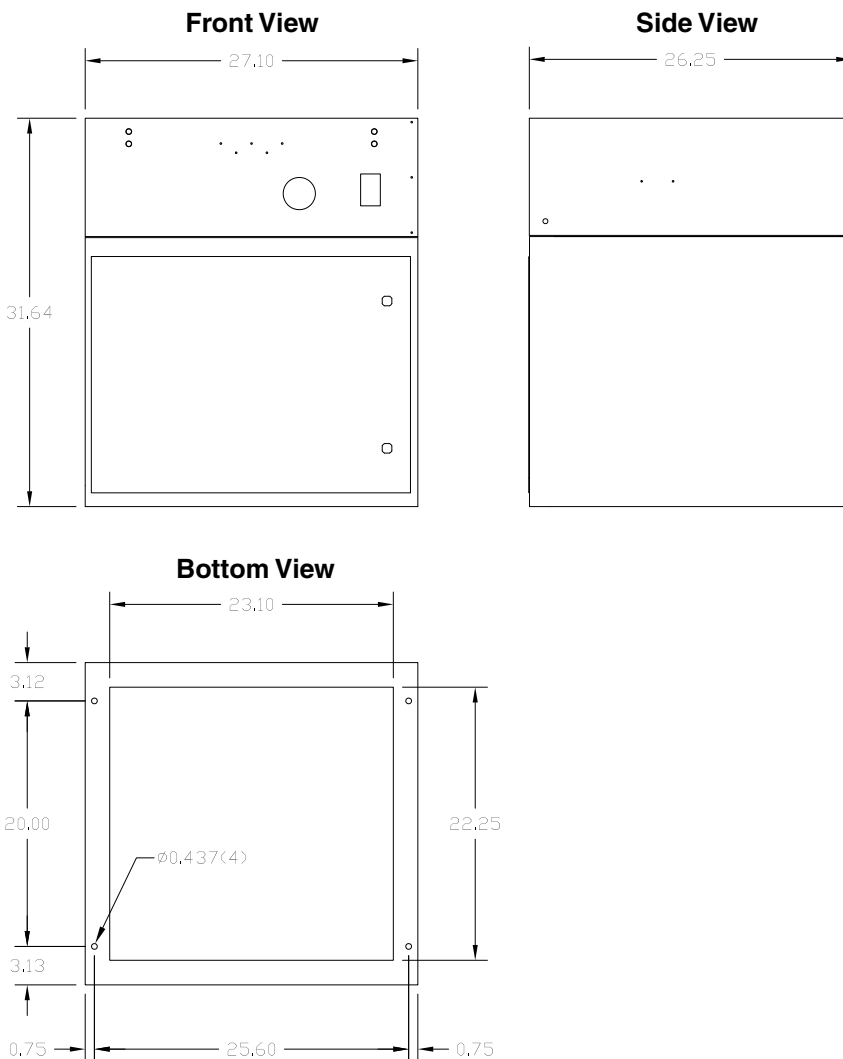
Patented coolant selector



MistBuster® Infinity – Next Generation

| | |
|--------------------------|---|
| Model | MB Infinity |
| Airflow | Variable up to 1000 cfm |
| Cabinet | 16 gauge steel cabinet with powder coated chemical resistant baked enamel, available in ivory or gray textured finish |
| Power Input | 115 Vac, 60 Hz, 1 ph, 9.5 amps 230 Vac, 60 Hz, 1 ph, 4.75 amps |
| Efficiency | 95% MERV 14 Filter |
| Filtration Stages | 1st Stage: 4" aluminum mesh impinger 2nd Stage: 58 sq. ft of lofted microfibre fiberglass media 3rd Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module |
| Features | Backward curved, vibration-free, direct drive motorized impeller rated at 1000 cfm at 3.0" w.g. Ten-foot power cord with molded plug |
| Dimensions | Cabinet: 27.10"L x 26.25"W x 31.64"H |
| Inlet Opening | 22.25" x 23.10" |
| Weight | 185 lbs installed; 200 lbs shipping |
| Accessories | Machine Mount Stand Pedestal Stand Ceiling Mount Kit Wall Mount Kit Plenum Diffuser HEPA Postfilter ESF Postfilter Carbon Module Long Life Filter |

Specifications subject to change without notice.



MistBuster® Next Generation Accessories

MisterBuster provides the flexibility needed for a variety of machining installations through its flexible mounting and ducting accessories, machine tool integration options, and additional filtration and odor control stages.

Direct Mount

MistBuster may be mounted directly on top of machine tool – no additional ducting or accessories required.

Mounting Systems

- 1 Machine mount stand – MistBuster may be mounted on the CNC machine tool with the machine mount stand, which allows for ducting to other portions of the machine tool enclosure
- 2 Floor mount stand – MistBuster may be mounted on a floor stand and ducted to the CNC machine tool

Ceiling mount and wall mount kits available.

Ducting Components

- 3 Ducting plenum
- 4 4", 6" and 8" hose mounting flange and collars
- 5 4", 6" and 8" ducting hose

Cleaner

- 6 Total cell cleaner
- 7 Cell cleaning tank

Enhanced Filtration And Odor Control

HEPA filter option
ESF postfilter kit
Odor module kit

Machine Tool Integration Controls

Optional control of MistBuster via CNC machine control program

