

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 AQE Advantage™ 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.

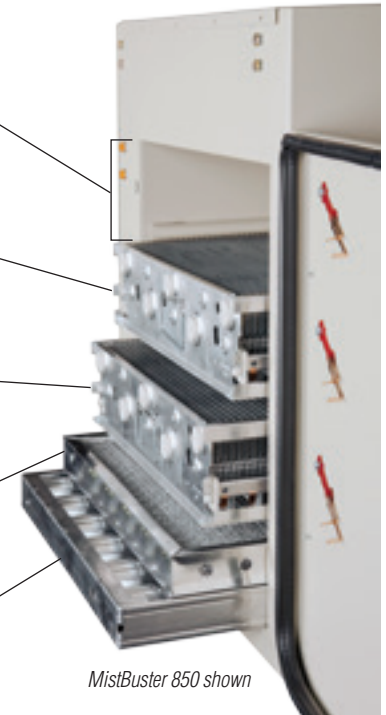


MistBuster's patented next generation technology aims to minimize the short circuits which require the washing of the electronic filter cells through:

- 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
- AQE Advantage™ (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: AQE Advantage (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: AQE Advantage (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: AQE Advantage (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 microfine fiberglass media 3rd Stage: Optional HEPA filter 99.97% efficiency, ESF Filter, or Carbon Module

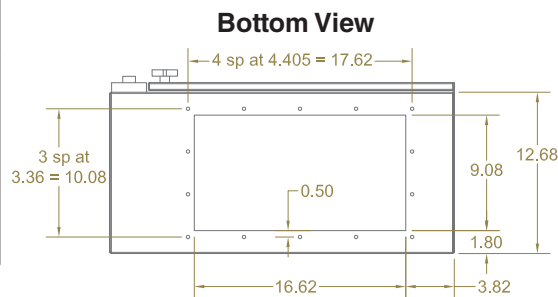
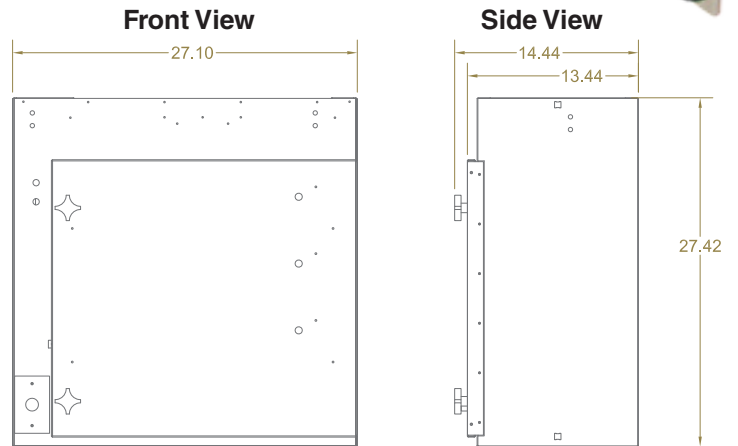
Specifications subject to change without notice.



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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: AQE Advantage (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

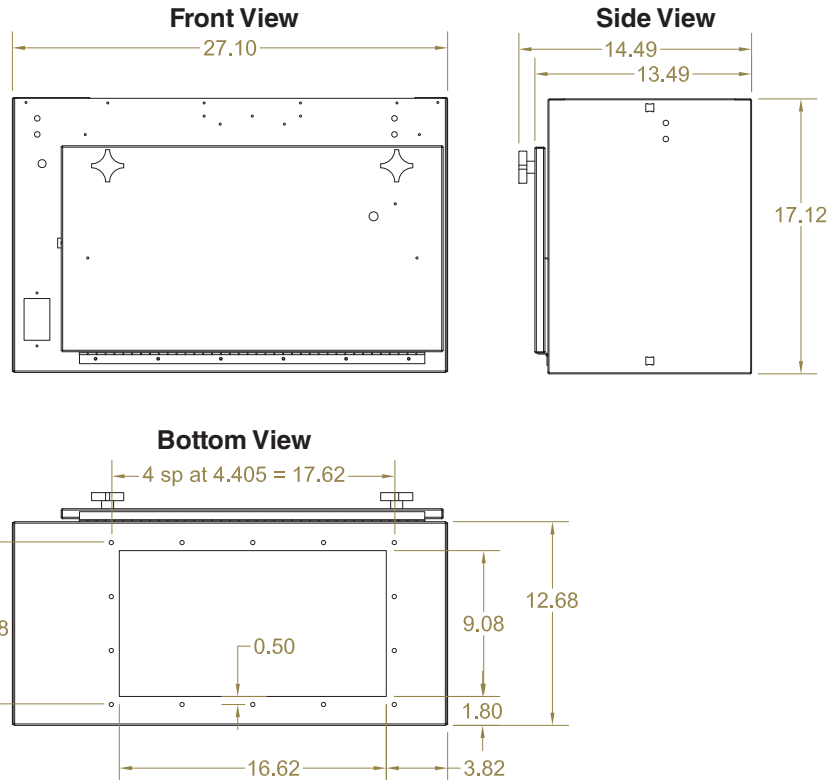


Quarter-turn quick-release fastener

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: AQE Advantage™ (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

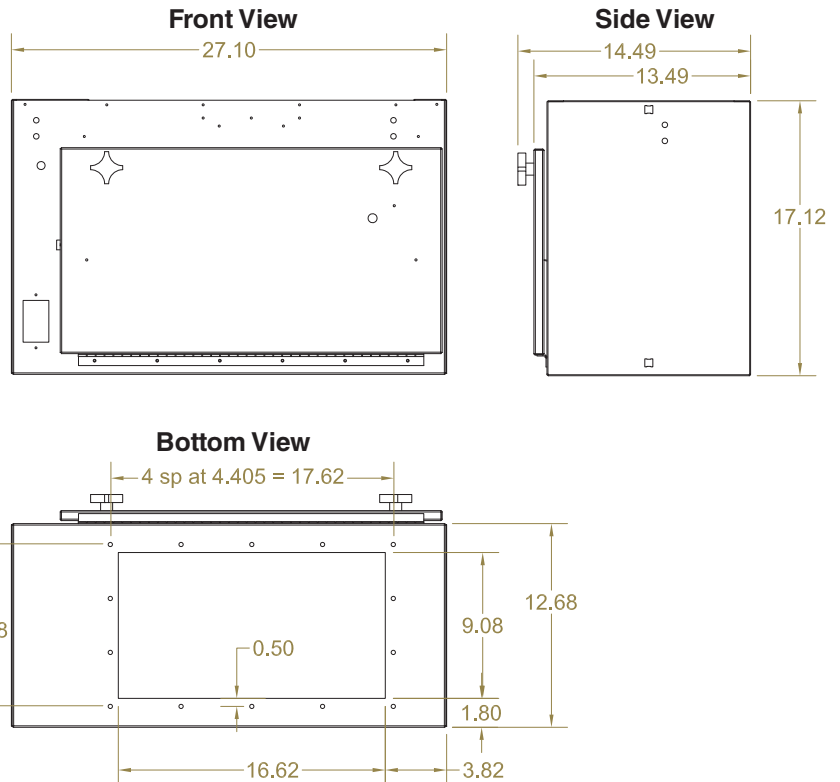
Specifications subject to change without notice.



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: AQE Advantage (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

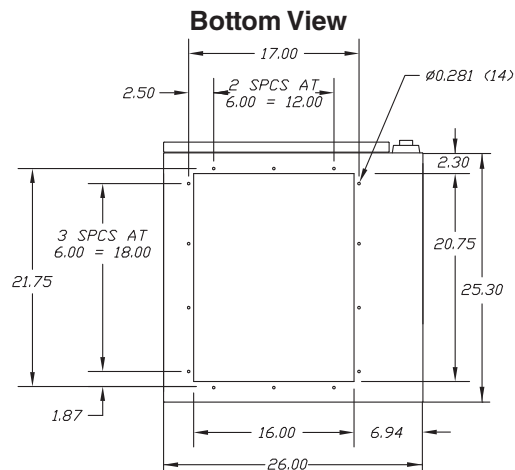
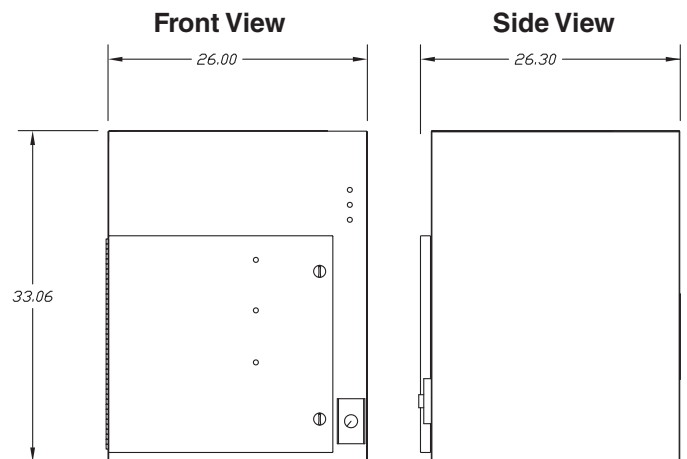
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AQE Advantage™ (Long Life) Electronic Cell



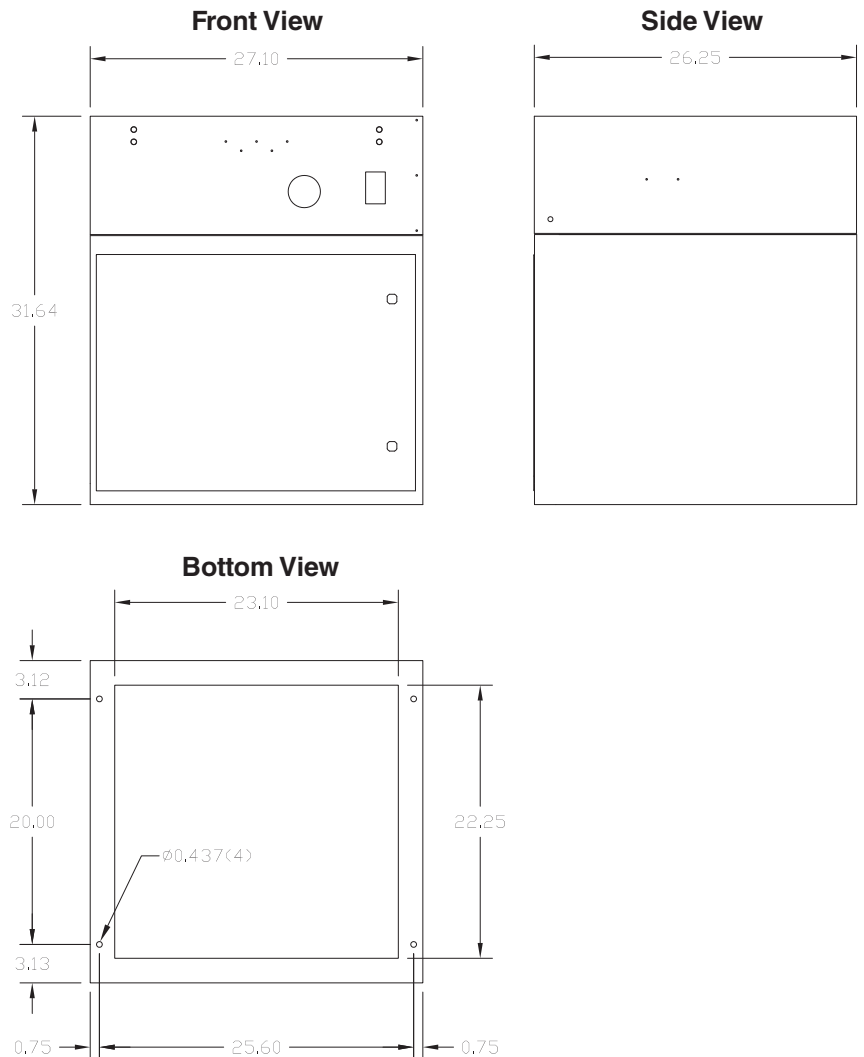
Patented coolant selector



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

