

## From Light-Dust to Heavy Particulate, the MNX Series Collectors Provide a **SAFE & CLEAN** Environment!

Monoxivent offers the MNX collector with 4- to 24-cartridge capacity. The collectors feature computer-modeled pulse cleaning technology to easily "pulse off" dust from the surface of the filter, improving filtration efficiency and prolonging filter life.

The MNX delivers optimum performance and is one of the best values in the marketplace today. The MNX ensures steadfast, trouble-free operation.

The advantage can be found in the collector's design and components. It features a ledgeless design in combination with high efficiency filter media and patented cleaning technology, the MNX continues its strong performance in traditional applications such as metal-working.

It also generates new interest and respect in process applications where ledgeless construction is often a requirement. Providing higher efficiency and smaller footprints than any bag-house collector or even other cartridge collectors, the MNX adds up to long-term savings and improved performance.

### **The MNX Collector Offers:**

***Ledgeless construction - eliminating dust build-up***

***Compact design - utilizing minimal floor space***

***Powerful performance - provides 30% more cleaning energy***

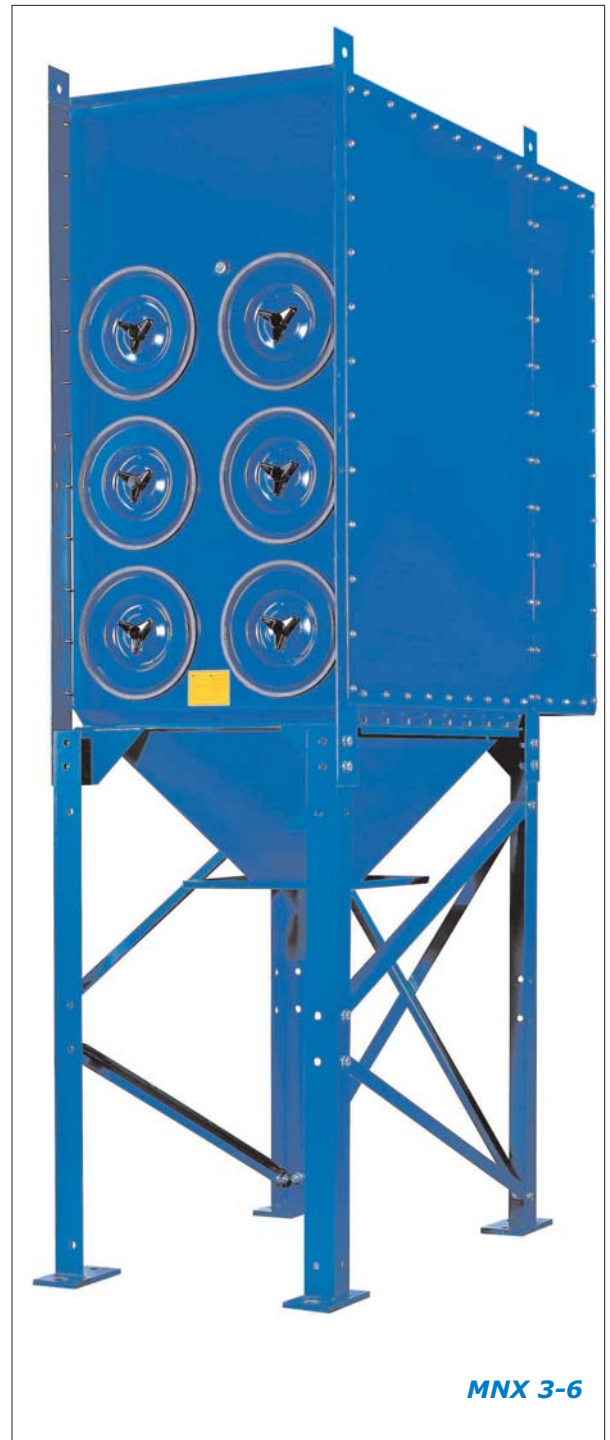
***Cost savings - fewer filter changeouts, less energy use***

***Reliability***

***Easy system set-up***

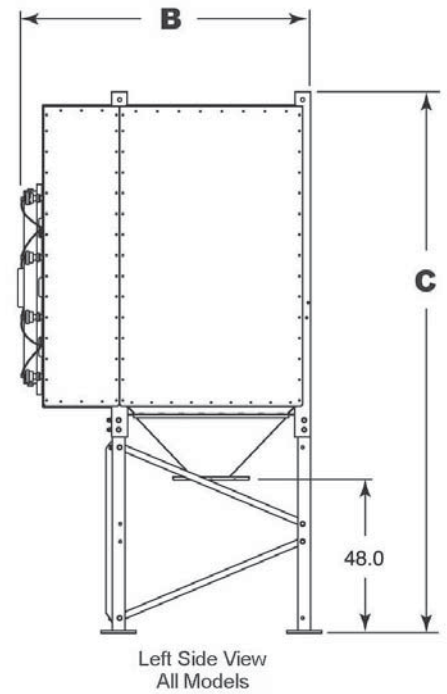
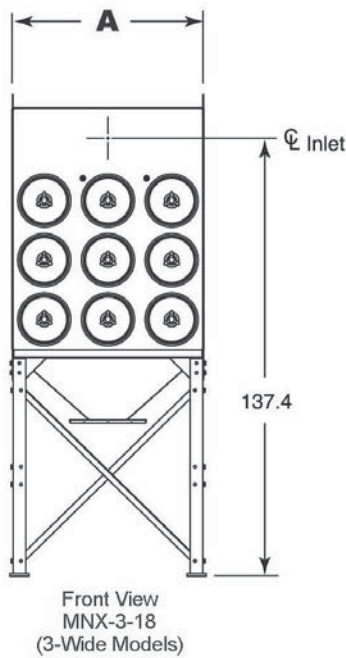
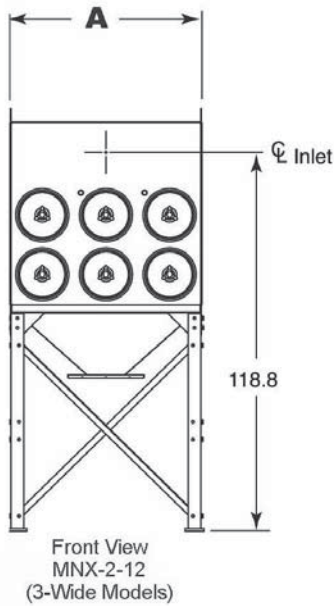
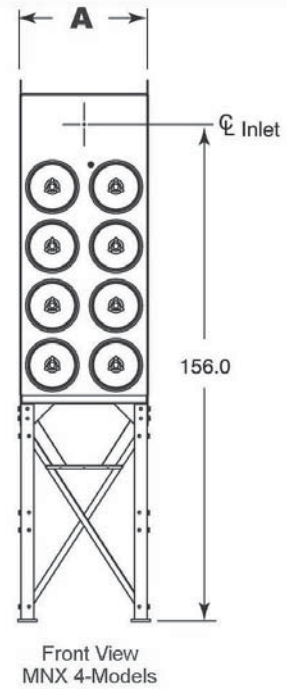
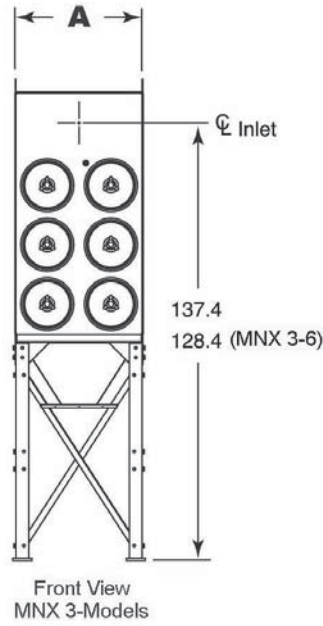
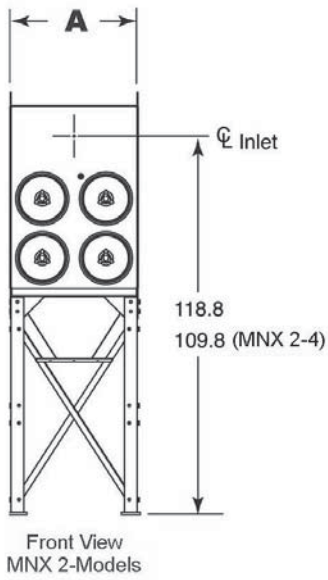
***Easy maintenance***

- ***Provide a Safe and Clean Working Environment***
- ***Comply or Exceed OSHA, EPA, State Regulations***
- ***Easy Install, Quiet and Efficient Operation***
- ***For Indoor or Outdoor Use***
- ***Improve Overall Plant Cleanliness***
- ***4- to 24-Cartridge Capacity***
- ***Pulse Cleaning Technology to Improve Filtration Efficiency & to Prolong Filter Life***



**MNX 3-6**

## MNX Dimensions & Specifications



## MNX Standard Operating Conditions

Seismic Rating (zone)	4	Compressed Air Required (psig)	90-100
Wind Load Rating (mph)	100	Valves and controls	50/60 Khz
Housing Rating ("wg)	+15/-20		

## MNX Dimensions & Specifications

Model*	Nominal Airflow Range (cfm)**	# Filters	Filter Area (sq. ft.)	# Valves	Shipping Weight (lbs.)	Dimensions (Inches)		
						A	B	C
MNX-2-4	500-3,150	4	760	4	1,678	40.0	64.5	117.3
MNX-3-6	760-4,720	6	1,140	6	1,678	40.0	64.5	136.0
MNX-2-8	1,020-6,300	8	1,520	4	1,678	40.0	90.7	132.6
MNX-2-12	1,525-9,450	12	2,280	6	2,392	60.0	90.7	132.6
MNX-3-12	1,525-9,450	12	2,280	6	2,078	40.0	90.7	151.2
MNX-2-16	2,030-12,600	16	3,040	8	3,300	80.0	90.7	132.6
MNX-4-16	2,030-12,600	16	3,040	8	2,500	40.0	90.7	169.8
MNX-3-18	2,285-14,175	18	3,420	9	2,942	60.0	90.7	151.2
MNX-2-24	3,050-18,900	24	4,560	12	4,600	120.0	90.7	132.6
MNX-3-24	3,050-18,900	24	4,560	12	4,200	80.0	90.7	151.2

\* The first number indicates number of filter rows, and the second number indicates number of cartridges.

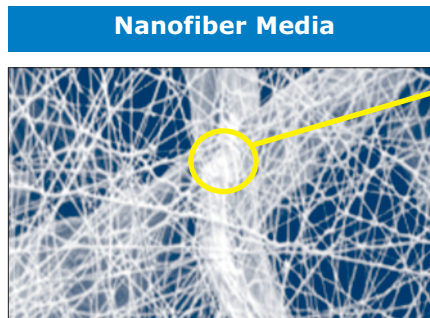
\*\* Based on clean filters.

Note, please consult factory for other models/sizes and/or custom applications.

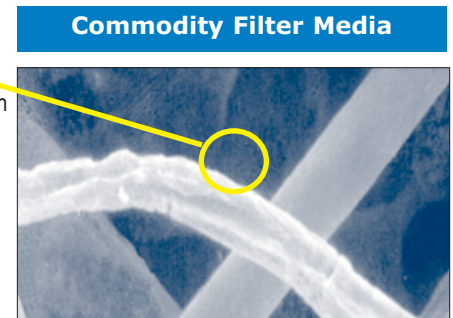
## Cartridge Filter Technology

**Nanofiber Filter Media** is the distinguishing factor in Monoxivent's cartridge filters.

The Nanofiber Media traps more dust on the surface of the filter than conventional depth loading types of filter media such as cellulose, polyester, or cellulose/polyester blends. The resulting dust cake is easily cleaned off during the automated collector cleaning cycles, ensuring longest filter life and highest efficiency rated MERV 13 based on ASHRAE 52.2 test standards.



*Nanofiber filter media combines both large and small fibers to trap more particle sizes without restricting airflow.*

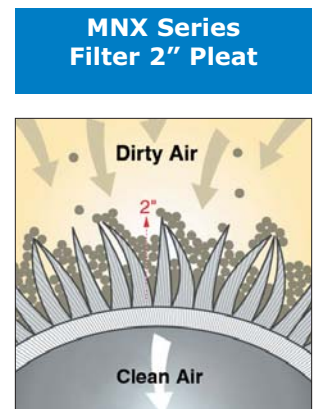
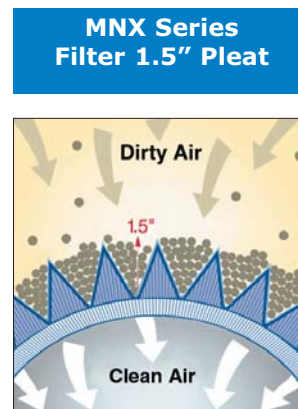


*Conventional media has spaces of up to 60 microns between fibers, allowing dust to become deeply embedded thereby shortening filter life.*

**MNX Filter Media Pleats** are shorter and stiffer, which helps minimize dust entrapment and simplify filter cleaning. With the 1.5" option, the pleat wall is less likely to collapse or bend, which can trap dust and prevent its release. However, the 2" option allows for more versatility with regard to CFM.

1.5" pleat: 190-sq. ft.  
2" pleat: 254-sq. ft.

**MNX Cartridge Filters** downward airflow design delivers the highest filtration performance while using less energy. The MNX collector, its filter cleaning system, and the nanofiber filter cartridges together complete the most powerful dust collection solution available.



## Standard Features & Equipment Options

Collector Design	Standard	Optional
Mild Steel Construction	X	
Stainless Steel Construction		X
High Temperature Construction		X
Direct Drive Fans		X
Chamber and Exhaust Silencers		X
Filter Cleaning System	X	
Inlets	X	
Abrasion Resistant Inlet		X
Air Management Modules		X
Extended Dirty Air Plenum		X
Ledge-Free Hopper	X	
Steep-Sided Hopper		X
2-Mod Hopper		X
Explosion Relief Vents		X
Sprinkler Taps	X	
Sprinkler Heads		X
Service Platform (OSHA Compliant)		X
Damper Pack		X
Drum-Full Indicator		X
Lined Clean Air Plenum		X
Bag-Out Kit (Filter & Discharge)		X
Bag-In/Bag-Out Kit (Filter & Discharge)		X
<b>Cartridge Filters</b>		
Nanofiber Filters	X	
HEPA Afterfilters		X
<b>Paint System</b>		
Prime Coated Interior	X	
Acrylic urethane finish over alkyd enamel primer. Paint system passes a 350-hr. salt spray test.	X	
Custom Color		X
Hostile Environment Coating		X
Epoxy Coating		X
<b>Hopper Discharge</b>		
Drum Cover and Hose		X
Slide Gates		X
Rotary Valve and Transitions		X
Screw Conveyors		X
<b>Electrical Controls, Gauges, and Enclosures</b>		
Solid State Timer in NEMA 4 Enclosure	X	
Delta P Control, Delta P Plus Control		X
Custom Panels		X
Magnehelic Gauge	X	
Photohelic Gauge Standard & Weatherproof		X
Basic Cold Climate Kit		X
Heavy-Duty Cold Climate Kit		X
Solenoid Enclosure (NEMA 7 & 9)		X

## Monoxivent Overview



Monoxivent is guided today, as it has been for over 50 years, by Monoxivent's original values: a commitment to product quality, customer service, innovation, business integrity, and a high regard for individual contributions.

Monoxivent, founded in 1953, has grown from a small shop to a thriving corporation that looks to carry its momentum into the years ahead.

The company, which specializes in source capture systems and products, competes with the nation's elite in regard to vehicle and fume exhaust solutions.

The manufacturing capabilities of Monoxivent include a complete line of vehicle exhaust extraction systems, hose reels, overhead and underground exhaust systems, source capture flex arms, portable filter units, wall mount filter systems, cartridge collectors with air pulse cleaning, cyclone dust collectors, free hanging filter units, and custom design build services for special requirements from our customers.

Monoxivent prides itself in developing and offering products that meet the demand for "user friendly systems." The design has been based upon direct communication with end users, listening to their needs and improving upon various ideas and concepts. This method of design caters to the users of our systems, thus making the purchase of Monoxivent products a wise investment.



## CONTACT MONOXIVENT'S TEAM OF DESIGN EXPERTS FOR YOUR CUSTOM APPLICATION!

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**MADE IN THE USA!**

**MONOXIVENT**

Monoxivent offers a complete line of source capture equipment to facilitate a full-range of applications in reference to vehicle and welding/fume exhaust elimination. Monoxivent also offers an extensive range of custom fabrication capabilities. Monoxivent is served by a highly-trained nation-wide network of representatives.

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