

# Filtra-Systems Mist Collection **STEALTH<sup>®</sup> X SERIES**

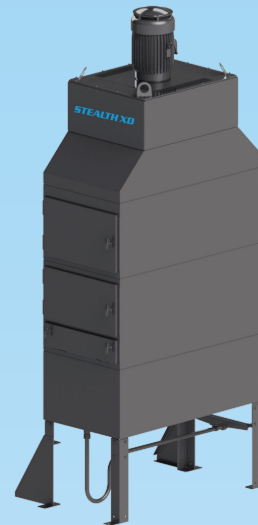
## Discover These Tested And Proven Clean Air Filtration Systems



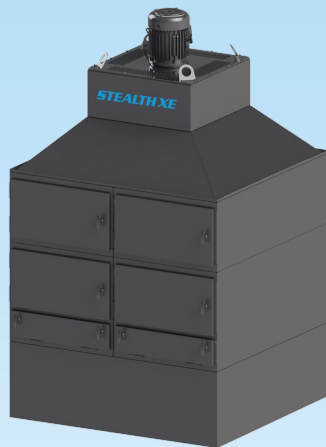
**STEALTH X1**



**STEALTH XC**



**STEALTH XD**



**STEALTH XE**



**STEALTH XM**

The Stealth series mist collector is fully modular and easily customizable to fit your applications.

The entire product line is engineered to handle a wide range of your air processing from **FINE OIL MIST to WATER SOLUBLE, PARTS WASHERS to PROCESS SMOKE.**

With many possible filter configurations, the Filtra-Systems Stealth line has the ability to handle all your process demands.

You'll get the most efficient mist recovery system available.

OSHA requires no more than 5.0 mg/m<sup>3</sup> of mist to be exhausted. Typically less than 0.5 mg/m<sup>3</sup> are discharged from the Stealth units... get efficiencies up to 99.4% of all airborne contaminants.

Ask how we can configure a solution to solve almost any application.



**Call Now**  
**248-427-9090**  
**FiltraSystems.com**

### **Customizable**

The Stealth's modular design makes it easy to customize units to optimize almost any of your air handling applications.

### **Efficient Operating Cost**

High efficiency motors reduce long-term operating cost. An optional VFD for blower motor control lowers your energy costs while maximizing the effectiveness.

### **Large Range of Filter Media**

Filtra-Systems' range of filter media helps easily process your most demanding application requirements.

### **99.4% Efficiencies**

Proprietary filter construction with efficiencies as high as 99.4%.

### **OSHA Clean Air Standards**

We are proud to say the Stealth X Series of Mist Collectors exceed the Occupational Safety and Health Administration (OSHA) Clean Air Standards.

### **Lower Lead Times**

Stocked assemblies gets you lower lead times.

### **Maximize Efficiency**

Customized options maximize your application efficiency.

### **Expedited Design and Delivery**

Standard controls configurations minimize your design time and delivery.

### **Mist Return Options**

Liquidized mist return options help you determine the best source for delivering recaptured liquid to your machine.

### **Optional Silencers**

Optional silencers reducing DBA rating in sensitive sound areas.

### **Reduced Installation Cost**

Producing air cleanliness capable of being discharged internal to a facility, reducing installation cost and preventing roof penetrating discharge hoods.

### **Range of Capabilities**

From individual machines to complete central system capabilities, as low as 250 cfm to as much as 36,000 cfm.

### **Cleaner Environment**

Provides a cleaner work environment for all your facility employees and patrons.

### **Easy to Access**

Conveniently access filter compartments for easy filter changes resulting in less downtime.

### **Wide Selection**

A variety of filtration media can solve all your air filtration requirements.

### **Internal Air Discharge**

High air purity levels provide you with internal air discharge in plant.

### **Leak Proof**

Custom designed leak proof ductwork assembly.

### **Control Options**

Stand alone control options available.

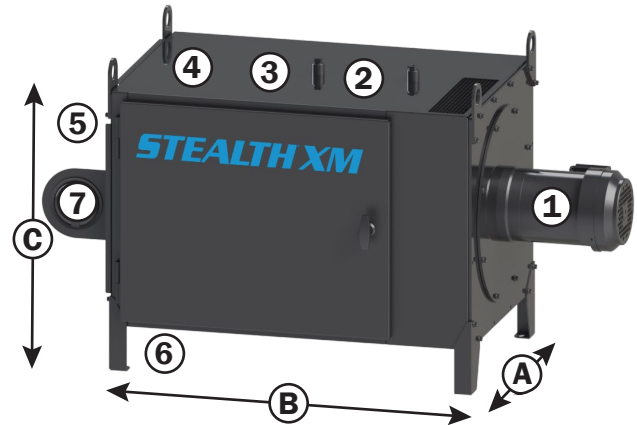
### **And Much Much More...**

# STEALTH<sup>XM</sup> Mist Collector

The Stealth XM micro mist collector has capabilities of 0-600 cfm water soluble, washer, and smoke applications. Also providing 0-300 cfm oil and fine oil mist applications. Our XM design comes standard with three stages of filtration delivered by a single machine application.

## APPLICATION

Machining, Drilling, Milling, Grinding, Turning, Broaching, Honing, and more. Engineered to easily control a wide range of aerosols from fine oil to water soluble mists, and parts washers to process dust and smoke.



Airflow (CFM)	Dimensions (In.)			Inlet Dia. (in.)	Blower (hp.)	Weight (lbs.)	Filter Stages
	A	B	C				
Water: 0-600	19.0	50.0	28.0	4 - 8	0.75	205	3
Oil: 0-300	19.0	50.0	28.0	4 - 8	0.75	205	3

Standard configuration, single filter housing with 3 stages of filtration.

## Modern Modular Design

### 1 Blower Box

Utilizes high efficiency blowers to deliver airflow with minimum energy.

### 2 Final Filter Stage

Usually a long lasting HEPA filter, but can be tailored to meet your existing specifications.

### 3 Primary Filter Stage

Captures the majority of mist from the application up to efficiencies of 95% while preserving the lifespan of the final filters.

### 4 Mitigation Filter Stage

Stop large particulate or high contaminate airflow, reducing the chance of premature plugging of filter elements.

### 5 Plenum

The plenum slows down airflow, allowing maximum time for mist to be filtered through the media.

### 6 Customizable Legs

The XM can be customized and anchored to any surface.

### 7 Control Packages

The XM offers two levels of standard control package options. Control package not displayed on this unit. expanded with optional stilts.

## FILTRATION PROCESS

### MITIGATION STAGE

#### Liquid and Solid Pre-Separation

Proprietary multi-layer construction.  
Low pressure drop for minimum energy use.  
Maximum primary filter stage life.  
Suitable for temps up to 350° F  
Washable.  
Recommended for applications with high loads and fine solids.

### PRIMARY STAGE

#### Advanced Fiberbed Technology Filters

Can achieve HEPA level efficiencies levels with maximum liquid reclamation.  
Long-life single use filters.  
Temps up to 190° F.  
Low pressure drop for minimum energy use.  
Suitable for all mist and MQL applications.

### FINAL STAGE

#### High Efficiency Final Filter

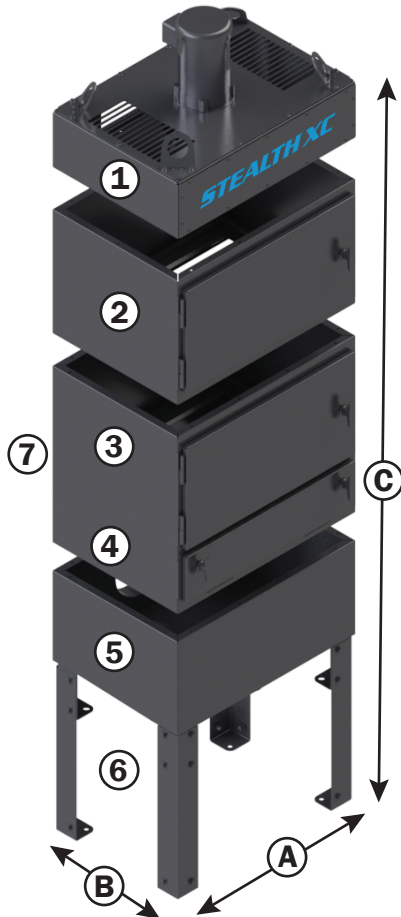
Low pressure drop for minimum energy use.  
Long-life single use.  
Low pressure drop for maximum energy efficiency.  
Recommended for in-plant air recycling.  
Multiple filter efficiencies available:  
95%, 99.75%, 99.97% and others.

# STEALTHXC Mist Collector

The Stealth XC compact mist collector has capabilities of 0-1,000 cfm water soluble, washer, and smoke applications. Also providing 0-600 cfm oil and fine oils mist applications. Our XC design is configurable from two to four stages of filtration with a single machine application.

## APPLICATION

Machining, Drilling, Milling, Grinding, Turning, Broaching, Honing, and more. Engineered to easily control a wide range of aerosols from fine oil to water soluble mists, and parts washers to process dust and smoke.



## Modern Modular Design

### 1 Blower Box

Utilizes high efficiency blowers to deliver airflow with minimum energy.

### 2 Final Filter Stage

Usually a long lasting HEPA filter, but can be tailored to meet your existing specifications

### 3 Primary Filter Stage

Captures the majority of mist from the application up to efficiencies of 95% while preserving the lifespan of the final filters.

### 4 Mitigation Filter Stage

Stop large particulate or high contaminate airflow, reducing the chance of premature plugging of filter elements.

### 5 Plenum

The plenum slows down airflow, allowing maximum time for mist to be filtered through the media.

### 6 Customizable Legs

The XC can be customized and anchored to any surface.

### 7 Control Packages

The XC offers four levels of standard control package options. Control package not displayed.

Airflow (CFM)	Dimensions (In.)			Inlet Dia. (in.)	Blower (hp.)	Weight (lbs.)	Filter Stages
	A	B	C				
Water: 0-1000	27.5	20.0	92.5	6 - 10	1.5 - 7.5	450	3
Oil: 0-600	27.5	20.0	92.5	6 - 10	1.5 - 7.5	450	3

Standard configuration, single filter housing with 3 stages of filtration.

## FILTRATION PROCESS

### MITIGATION STAGE

#### Liquid and Solid Pre-Separation

Proprietary multi-layer construction.  
Low pressure drop for minimum energy use.  
Maximum primary filter stage life.  
Suitable for temps up to 350° F  
Washable.  
Recommended for applications with high loads and fine solids.

### PRIMARY STAGE

#### Advanced Fiberbed Technology Filters

Can achieve HEPA level efficiencies levels with minimum liquid reclamation.  
Long-life single use filters.  
Temps up to 190° F.  
Low pressure drop for minimum energy use.  
Suitable for all mist and MQL applications.

### FINAL STAGE

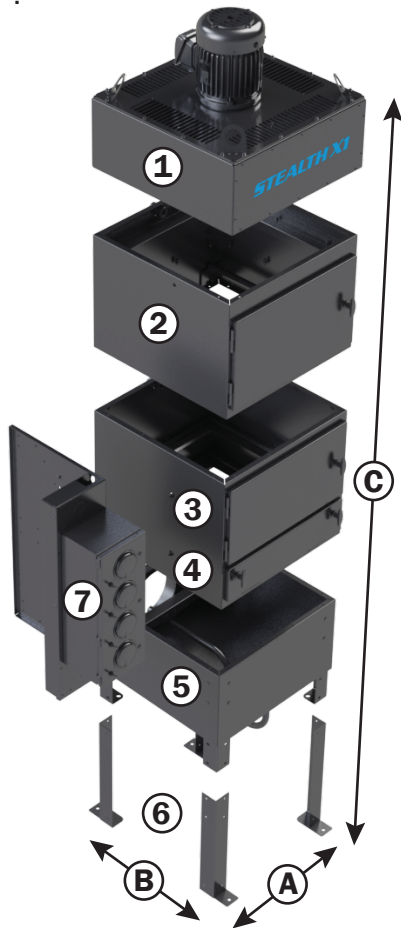
#### High Efficiency Final Filter

Low pressure drop for minimum energy use.  
Long-life single use.  
Low pressure drop for maximum energy efficiency.  
Recommended for in-plant air recycling.  
Multiple filter efficiencies available:  
95%, 99.75%, 99.97% and others.

# STEALTH X1 Mist Collector

The Stealth X1 Mist Collector is a fully modular and easily customizable to handle a wide range of your air processing applications. From Fine Oil Mist to Water Soluble Coolant, Parts Washers to Process Smoke, the Filtra-Systems Stealth has many ways to optimize any of your air handling requirements.

Ideal for Machining, Drilling, Milling, Grinding, Turning, Broaching, Honing, and more! Engineered to easily control a wide range of aerosols from FINE OIL to WATER SOLUBLE MISTS, PARTS WASHERS to PROCESS DUST and SMOKE.



## Modern Modular Design

### 1 Blower Box

Utilizes high efficiency blowers to deliver airflow with minimum energy.

### 2 Final Filter Stage

Usually a long lasting HEPA filter, but can be tailored to meet your existing specifications.

### 3 Primary Filter Stage

Captures the majority of mist from the application up to efficiencies of 95% while preserving the lifespan of the final filters.

### 4 Mitigation Filter Stage

Stop large particulate or high contaminate airflow, reducing the chance of premature plugging of filter elements.

### 5 Plenum

The plenum slows down airflow, allowing maximum time for mist to be filtered through the media.

### 6 Customizable Legs

The X1 can be anchored to any surface. Standard 4" legs can be expanded with optional stilts.

### 7 Control Packages

The X1 offers four levels of control package options. The XB1 control package is displayed.

Airflow (CFM)	Dimensions (In.)			Inlet Dia. (in.)	Blower (hp.)	Weight (lbs.)	Filter Stages
	A	B	C				
Water: 0 - 1,800	27.5	27.5	105	10 - 14	1.5 - 7.5	600	3
Oil: 0 - 1,200	27.5	27.5	105	10 - 14	1.5 - 7.5	600	3

Standard configuration, single filter housing with 3 stages of filtration.

## FILTRATION PROCESS

### MITIGATION STAGE

#### Liquid and Solid Pre-Separation

Proprietary multi-layer construction.  
Low pressure drop for minimum energy use.  
Maximum primary filter stage life.  
Suitable for temps up to 350° F  
Washable.  
Recommended for applications with high loads and fine solids.

### PRIMARY STAGE

#### Advanced Fiberbed Technology Filters

Can achieve HEPA level efficiencies levels with maximum liquid reclamation.  
Long-life single use filters.  
Temps up to 190° F.  
Low pressure drop for minimum energy use.  
Suitable for all mist and MQL applications.

### FINAL STAGE

#### High Efficiency Final Filter

Low pressure drop for minimum energy use.  
Long-life single use.  
Low pressure drop for maximum energy efficiency.  
Recommended for in-plant air recycling.  
Multiple filter efficiencies available:  
95%, 99.75%, 99.97% and others.

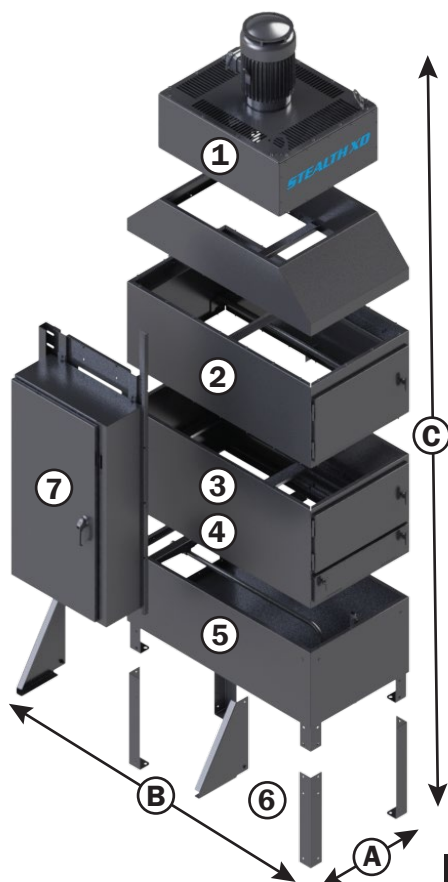


# STEALTH<sup>XD</sup> Mist Collector

The Stealth XD micro mist collector has capabilities of 1,800-3,600 cfm water soluble, washer, and smoke applications. Also providing 1,200-2,400 cfm oil and fine oil mist applications. Our XD design is configurable from two to four stages of filtration with a single machine application.

## APPLICATION

Machining, Drilling, Milling, Grinding, Turning, Broaching, Honing, and more. Engineered to easily control a wide range of aerosols from fine oil to water soluble mists, and parts washers to process dust and smoke.



Configurable from 2 filter housings with 3 stages per housing. Single machine or cell based up to (4) machines.

## Modern Modular Design

### 1 Blower Box

Utilizes high efficiency blowers to deliver airflow with minimum energy.

### 2 Final Filter Stage

Usually a long-term HEPA filter, but can be tailored to existing specifications.

### 3 Primary Filter Stage

Captures the majority of mist from the application up to efficiencies of 95% while preserving the lifespan of the final filters.

### 4 Mitigation Filter Stage

Stop large particulate or high contaminate airflow, reducing the chance of premature plugging of filter elements.

### 5 Plenum

The plenum slows down airflow, allowing maximum time for mist to be filtered through the media.

### 6 Customizable Legs

The XD can be anchored to any surface. Standard 4" legs can be expanded with optional stilts.

### 7 Control Packages

The XD offers four levels of control package options. The XB1 control package is displayed.

Airflow (CFM)	Dimensions (In.)			Inlet Dia. (in.)	Blower (hp.)	Weight (lbs.)	Filter Stages	Filter Housings
	A	B	C					
Water: 0 - 3600	51.5	27.5	126.0	10 - 14	1.5 - 7.5	1270	3	2
Oil: 0 - 1800	51.5	27.5	126.0	10 - 14	1.5 - 7.5	1270	3	2

## FILTRATION PROCESS

### MITIGATION STAGE

#### Liquid and Solid Pre-Separation

Proprietary multi-layer construction.  
Low pressure drop for minimum energy use.  
Maximum primary filter stage life.  
Suitable for temps up to 350° F  
Washable.  
Recommended for applications with high loads and fine solids.

### PRIMARY STAGE

#### Advanced Fiberbed Technology Filters

Can achieve HEPA level efficiencies levels with minimum liquid reclamation.  
Long-life single use filters.  
Temps up to 190° F.  
Low pressure drop for minimum energy use.  
Suitable for all mist and MQL applications.

### FINAL STAGE

#### High Efficiency Final Filter

Low pressure drop for minimum energy use.  
Long-life single use.  
Low pressure drop for maximum energy efficiency.  
Recommended for in-plant air recycling.  
Multiple filter efficiencies available: 95%, 99.75%, 99.97% and others.

# STEALTH XE Mist Collector

The Stealth XE is engineered to easily control a wide range of aerosols from fine oil to water soluble mists, parts washers to process dust and smoke. Our XE design is configurable from two to four stages of filtration.

## APPLICATION

Machining, Drilling, Milling, Grinding, Turning, Broaching, Honing, and more.  
3,600 to 36,000+ cfm water soluble, washer and smoke applications.  
2,200 to 24,000+ cfm oil and fine oils mist applications.



## Modern Modular Design

### 1 Blower Box

Utilizes high efficiency blowers to deliver airflow with minimum energy.

### 2 Final Filter Stage

Usually a long lasting HEPA filter, but can be tailored to meet your existing specifications.

### 3 Primary Filter Stage

Captures the majority of mist from the application up to efficiencies of 95% while preserving the lifespan of the final filters.

### 4 Mitigation Filter Stage

Stop large particulate or high contaminate airflow, reducing the chance of premature plugging of filter elements.

### 5 Plenum

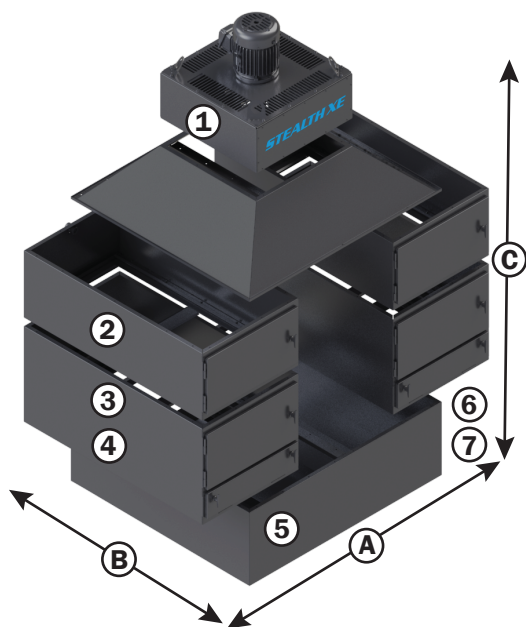
The plenum slows down airflow, allowing maximum time for mist to be filtered through the media.

### 6 Customizable Legs

The XE can be customized and anchored to any surface.

### 7 Control Packages

The XE offers two levels of standard control package options. Control package not displayed on this unit expanded with optional stilts.



Airflow (CFM)	Dimensions (In.)			Inlet Dia. (in.)	Blower (hp.)	Weight (lbs.)	Filter Stages	Filter Housings
	A	B	C					
Water: 7200-36000	54.6 - 273.6	51.5	78 - 117	10 - 14	20 - 30	2400 - 9450	3	4 - 20
Oil: 4800 - 24000	54.6 - 273.6	51.5	78 - 117	10 - 14	20 - 30	2400 - 9450	3	4 - 20

Configurable from 4 to 20 filter housings with 3 stages per housing.  
Multiple machine applications.

## FILTRATION PROCESS

### MITIGATION STAGE

#### Liquid and Solid Pre-Separation

Proprietary multi-layer construction.  
Low pressure drop for minimum energy use.  
Maximum primary filter stage life.  
Suitable for temps up to 350° F  
Washable.  
Recommended for applications with high loads and fine solids.

### PRIMARY STAGE

#### Advanced Fiberbed Technology Filters

Can achieve HEPA level efficiencies levels with minimum liquid reclamation.  
Long-life single use filters.  
Temps up to 190° F.  
Low pressure drop for minimum energy use.  
Suitable for all mist and MQL applications.

### FINAL STAGE

#### High Efficiency Final Filter

Low pressure drop for minimum energy use.  
Long-life single use.  
Low pressure drop for maximum energy efficiency.  
Recommended for in-plant air recycling.  
Multiple filter efficiencies available:  
95%, 99.75%, 99.97% and others.

# Mist Collection Accessories & Options

## The “ELIMINATOR” First Stage Separator

Located at the CNC machine, The Eliminator uses Filtra-Systems patented separation technology, returning fluidized mist back to the CNC machine. With recovery efficiencies up to 99%, this optional first stage separator greatly reduces liquid in your ductwork, reducing hazards and improving housekeeping.

### EFFICIENCY %

**Water soluble: 98.7%**

**Washer solution: 98.4%**

**Straight oil: 93.7 %**



### ELIMINATOR SIZING

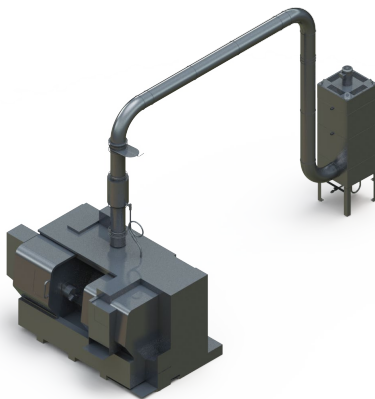
1st Stage Separator Selection Chart				
CFM	8"	10"	12"	14"
250	✓	—	—	—
500	✓	—	—	—
750	—	✓	—	—
1000	—	✓	—	—
1250	—	—	✓	—
1500	—	—	✓	—
1750	—	—	—	✓
2000	—	—	—	✓

## Sump Pump Options

The optional sump pump is sized to return captured coolant, solution, and oil to your desired location.

### SUMP PUMP BENEFITS

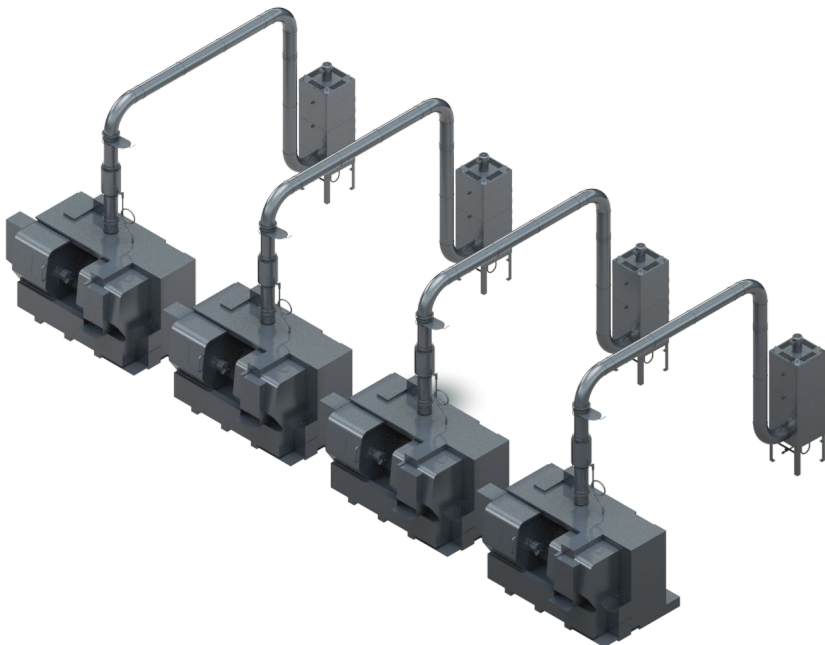
1. Designed to deliver recovered liquid to any desired location
2. Reduces overall height of mist collection unit



## Standard Ductwork Packages Available, Custom Designs Upon Request.

Ask about our completely leak proof modular ductwork packages, design and layout routing, extensive bill of material and easy installation guide.

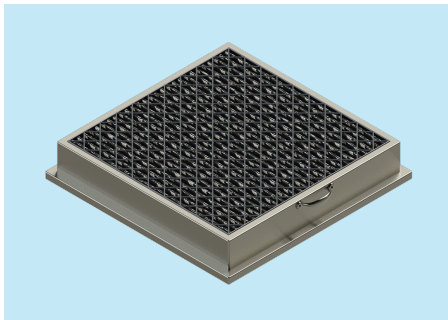
Meeting any of yours, federal, state or local requirements, from fire suppression ports, balancing valves, testing ports, and spark arrestors.



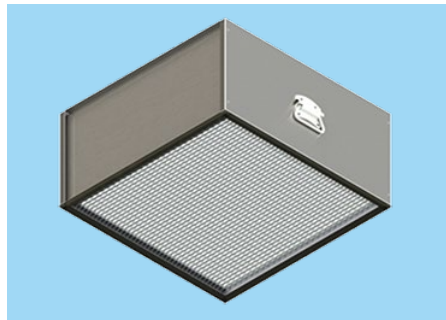


# Stealth Mist Collector Filter Options:

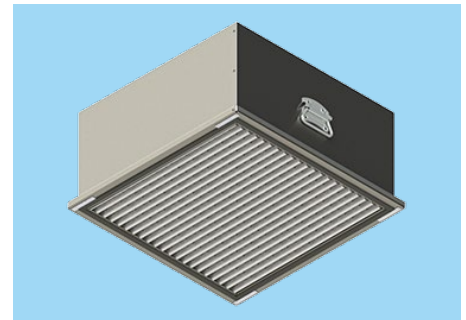
Proprietary Filters engineered to provide you with the highest rated efficiencies.



**First Stage  
Mitigation Filter Washable**



**Second Stage  
Primary Filter  
Proprietary Fiber Bed**



**Final Stage  
HEPA Filter 95 DOP**

## Stealth Mist Collection Filters

	<b>Water soluble Coolant Solution)</b>	<b>Stealth XM</b>	<b>Stealth XC</b>	<b>Stealth X1</b>	<b>Stealth XD</b>	<b>Stealth XE</b>
First Stage	Mitigation Filter (Washable) Frame	NA	19200050	19200006	19200006	19200006
First Stage	Mitigation Filter (Washable) Box	19200055	19200054	19200045	19200045	19200045
Second Stage	Primary Filter (Fiber Bed) Frame	NA	19200059	19200003	19200003	19200003
Second Stage	Primary Filter (Fiber Bed) Box	19200061	19200060	19200029	19200029	19200029
Final Stage	Final Filter (DOP 95 Hepa) Frame	NA	19200067	19200065	19200065	19200065
Final Stage	Final Filter (DOP 95 Hepa) Box	19200068	19200066	19301071	19301071	19301071
	<b>Parts Washer (Detergent Solution)</b>	<b>Stealth XM</b>	<b>Stealth XC</b>	<b>Stealth X1</b>	<b>Stealth XD</b>	<b>Stealth XE</b>
First Stage	Mitigation Filter (Washable) Frame	NA	19200050	19200006	19200006	19200006
First Stage	Mitigation Filter (Washable) Box	19200055	19200054	19200045	19200045	19200045
Second Stage	Primary Filter (Fiber Bed) Frame	NA	19200056	19200013	19200013	19200013
Second Stage	Primary Filter (Fiber Bed) Box	19200058	19200057	19200014	19200014	19200014
Final Stage	Final Filter (DOP 95 Hepa) Frame	NA	19200067	19200065	19200065	19200065
Final Stage	Final Filter (DOP 95 Hepa) Box	19200068	19200066	19301071	19301071	19301071
	<b>Fine Oil Mist/Synthetic Oil/Smoke</b>	<b>Stealth XM</b>	<b>Stealth XC</b>	<b>Stealth X1</b>	<b>Stealth XD</b>	<b>Stealth XE</b>
First Stage	Mitigation Filter (Washable) Frame	NA	19200050	19200006	19200006	19200006
First Stage	Mitigation Filter (Washable) Box	19200055	19200054	19200045	19200045	19200045
Second Stage	Primary Filter (Fiber Bed) Frame	NA	19200062	19200002	19200002	19200002
Second Stage	Primary Filter (Fiber Bed) Box	19200064	19200063	19200044	19200044	19200044
Final Stage	Final Filter (DOP 95 Hepa) Frame	NA	19200067	19200065	19200065	19200065
Final Stage	Final Filter (DOP 95 Hepa) Box	19200068	19200066	19301071	19301071	19301071
	<b>Light Dust Applications</b>	<b>Stealth XM</b>				
First Stage	Mitigation Filter (Washable) Box	19200051				
Second Stage	Primary Filter (Fiber Bed) Box	19200052				
Final Stage	Final Filter (99.97 Hepa) Frame	19200053				



## **Filtration Systems Company**

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