ELEVATING MIST COLLECTION TO NEW HEIGHTS

STRATOS™ MIST COLLECTOR

Smart Collector
Powered by iCue™ Technology

Donaldson
FILTRATION SOLUTIONS

CUTTING EDGE MIST COLLECTION

Modern machining operations continue to evolve at a rapid pace. Productivity gains are driven by the integration of precision, speed, and machine versatility. Today's machining equipment generates elevated levels of smaller mist particles and contaminants that need to be captured.

Effective mist control plays an important role in supporting an efficient workplace, meeting environmental and regulatory expectations, and maintaining a clean production environment. When properly managed, mist collection systems can aid in recovering reusable fluids, reducing waste, and supporting efficient, long-term equipment operation. Without adequate control, airborne fluids and smoke can impact air quality, disrupt machine performance, and contribute to operational and housekeeping challenges on the production floor.

The Stratos™ Mist Collector series from Donaldson is designed to provide organizations with reliable, continuous-duty filtration in an efficient footprint. The collector is available in multiple models designed to meet different performance and volume requirements across various applications.

All models are designed for global enablement and deployment, featuring advanced digital controls and connectivity, and easy serviceability.

Whether your operation runs continuously or in challenging conditions, the Stratos Mist Collector can help you achieve a clean and efficient manufacturing environment.

PRECISION ENGINEERED FOR CONTINUOUS DUTY

The Stratos Mist Collector supports exceptional contaminant collection for a wide range of challenging, continuous-duty applications in multiple industries:

+ **Metalworking and Machining**
+ **Automotive Manufacturing**
+ **Electronics**
+ **Food Production**
+ **Aerospace and Defense**
+ **Medical**

INNOVATIONS DESIGNED FOR EFFICIENCY

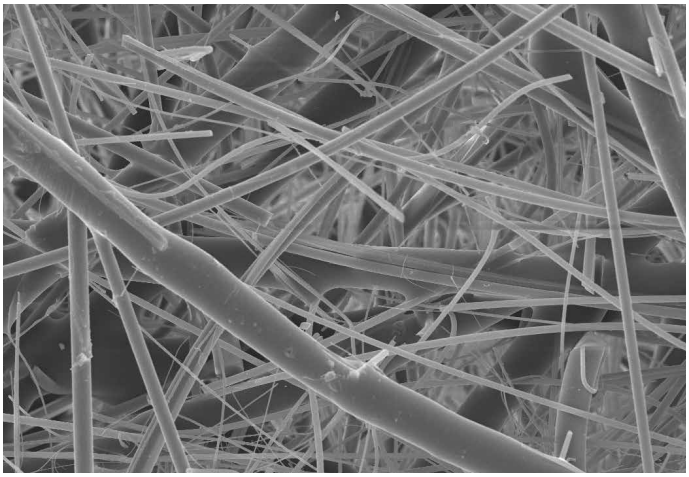
The Stratos Mist Collector incorporates industry-leading design, the latest filter media technology, and an intuitive operator interface to create one of the most effective systems on the market.

Low Energy Use and Consistent Power

EC motors with built-in VFD capability enable airflow control and support efficient energy use. The motor design allows for installation flexibility, long filter life, and quiet operation.

Reliable Fluid Management

The ControlFlow Inlet Technology is engineered for effective collection and drainage. The system's airflow design and tilted filter alignment help reduce pressure drop and support the recapturing and recycling of metalworking fluids.



Filter Technology Built for Long Service Life

Innovative resin-free panel filter with Synteq XP Filter Media provides long filter life and low pressure drop. Multiple media options are available for various applications including high-efficiency choices for water, oil, and smoke contaminants. Secondary filter options are also available featuring HEPA or DOP media.

Smart Control for Maximum Uptime

Equipped with the Pro OS Controller, the system uses Ethernet-based two-way communication protocols that enable digital airflow control, system diagnostics, and programmable alerts. The intuitive 5" LCD touchscreen interface includes a multilingual display, filter-life monitoring, and a visual performance indicator.

BUILT FOR THE GRIND

Available as a machine-mount or floor-stand system, the Stratos is a capable of providing high efficiency filtration and emissions control for fugitive metalworking mist, from water soluble fluids to oil lubricants, and thermally-generated smoke contaminants produced in metalworking operations.

HEPA After-Filter
optional added layer of protection

EC Motors
deliver optimal airflow through digital controls, energy efficiency, and quiet operating volume with built-in VFD

Global Design
incorporates comprehensive power supply capabilities and 21 operating languages to enable universal use

Synteq XP Panel Filter
provides particulate removal efficiency and long filter life with resin-free media

Stainless Steel Cabinet
protects components and provides a clean, easy-to-maintain finish

Forward-Mounted Pre-Filter
intentionally directs airflow to enhance pre-separation

Inlet Ducts
on the right and left sides can be configured for optimal set up

Installation Rails
designed to support installation for machine-mounted or floor-supported systems

Inlet Baffle Plates
designed for optimized airflow management

MANAGING MIST

Engineered for efficiency, the Stratos Mist Collector guides air through five purpose-built stages effectively capturing mist and contaminants, recovering fluids, and helping maintain a safe work environment.

1. Mist Capture and Airflow Entry

Air containing mist and contaminants enters the collector through right- or left-side inlet ducts. Baffle plates manage airflow as it enters the system, supporting controlled, even distribution through the collector.

2. Pre-Filter

A forward-mounted pre-filter intentionally directs airflow to enhance pre-separation, helping manage contaminants before they reach the primary filter stage.

3. Primary Filtration

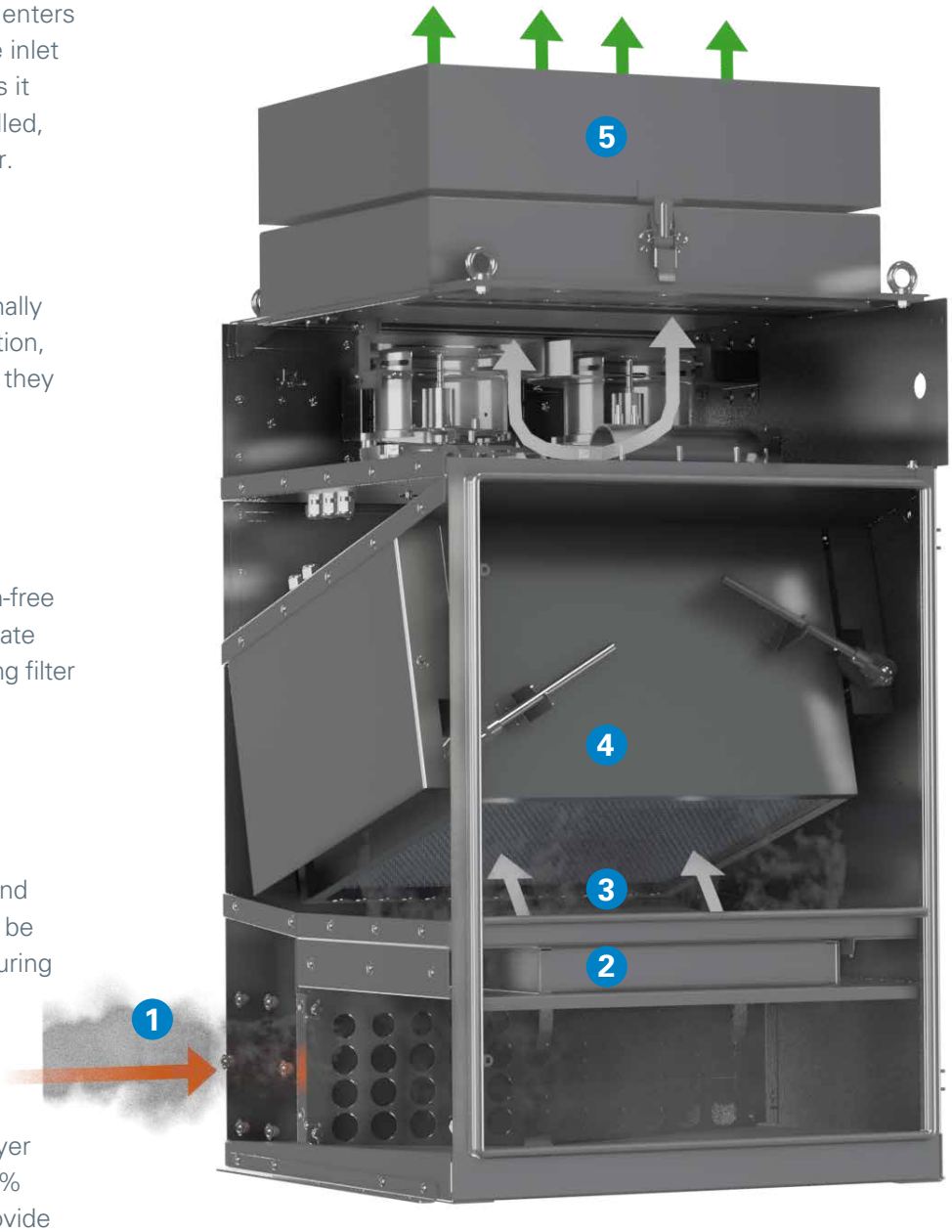
As air moves through the system, contaminants are captured by the resin-free panel filter, which delivers high particulate removal efficiency while supporting long filter life and low pressure drop.

4. Fluid Management

The system's design and angled filter position support effective collection and drainage, allowing recovered fluids to be directed back for recycling or reuse during continuous operation.

5. Optional After-Filter

For applications requiring an added layer of protection, an optional HEPA or 95% DOP after-filter can be installed to provide additional filtration downstream of the primary filter stage.



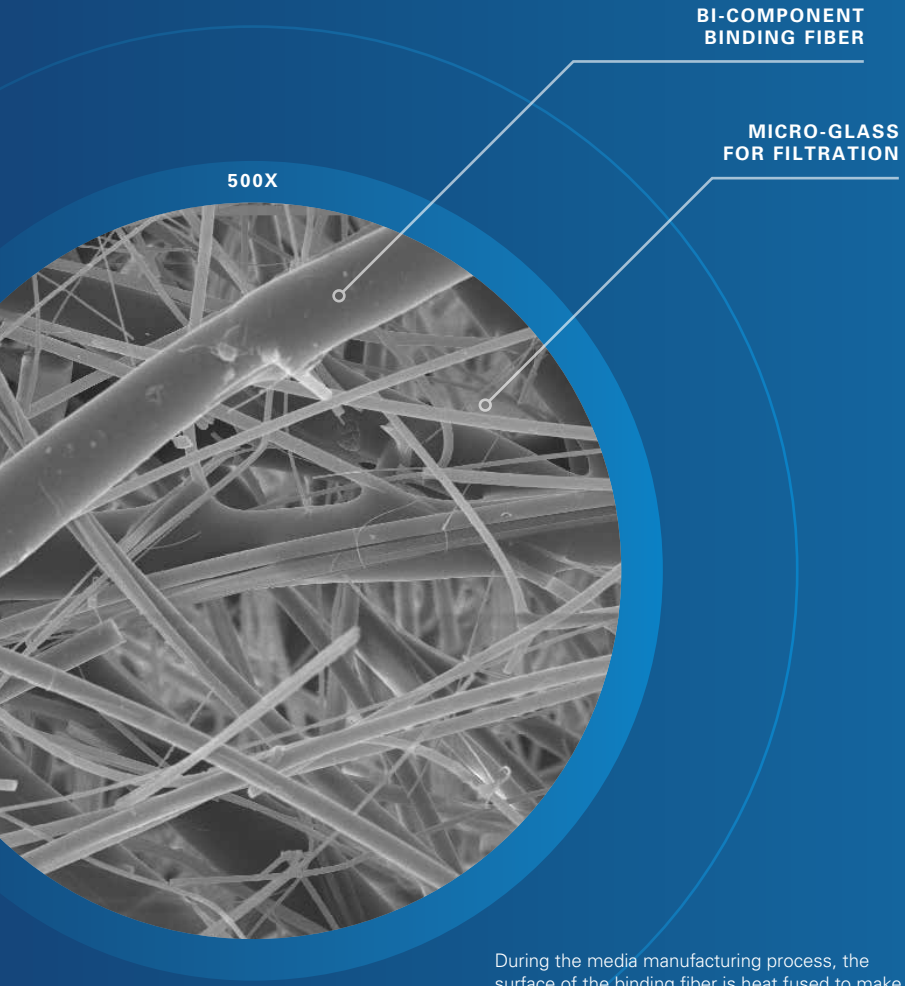
ADVANCED FILTER MEDIA

Synteq XP Media Technology is a revolutionary media for mist collection that provides high-efficiency, low-operating-pressure drop, and long filter life when compared to traditional media.

- Engineered blend of small and large fibers, with proprietary, resin-free bonding system
- Small fibers are scientifically proven to increase efficiency
- Large fibers provide structural support and clear drain channels
- Proprietary bonding system stabilizes pore structure for optimum performance

Synteq XP™

View Donaldson's entire portfolio of filters with industry-leading Synteq media technology at Shop.Donaldson.com.



During the media manufacturing process, the surface of the binding fiber is heat fused to make it bond to the surrounding micro-glass—no resin webbing to block pores.

Inherent Constraints of Traditional Filter Media

Traditional Mist Cartridge Filter Media (with resins)

- Made with resins to bond fibers
- Resins reduce air pathways and block drainage

Traditional Mist Panel Filter Media (loose fibers)

- Four-layer media structure without fiber bonding
- Fibers sag under weight of oil
- Fiber movement creates larger holes that pass oil

YOUR PARTNER FOR PEACE OF MIND

Partnering with Donaldson is like having the industry leader in filtration on your team.

For more information on controlling fugitive metalworking fluids, from water soluble fluids to oil lubricants, and thermally-generated smoke contaminants in your operation, or for help identifying the right solution for your application, contact your local Donaldson representative.

donaldson.com

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FILTRATION SOLUTIONS

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