

WSO MIST COLLECTORS



The only Mist Collector you need

Filter Solutions for oily Smoke

The Donaldson WSO mist collector provides filter solutions for oily smoke. The WSO uses revolutionary Synteq® XP filter media engineered for superior draining, resulting in lower pressure drop and longer filter life.

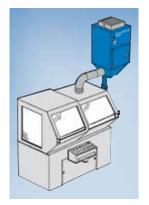
The WSO is ideal for lean work cells. As machining operations change, the WSO can be modified with a simple filter change, leading to leaner operations, cost savings and cleaner plant air environment.



WSO 15 with optional 3rd stage HEPA filter

The WSO Difference

The WSO mist collector can be configured for floorand machine mounted to meet your facility's requirements. More than



WSO 15 floor-mounted stand with afterfilter on a horizontal machining center



75,000

WSO 20 machine mounted with afterfilter mounted on a CNC

Features and Benefits

- Solutions for thermally generated oil mist applications
- Advanced Synteg® XP Media
- Cross-flow design for better drainage
- Energy savings
- Lower life cycle costs

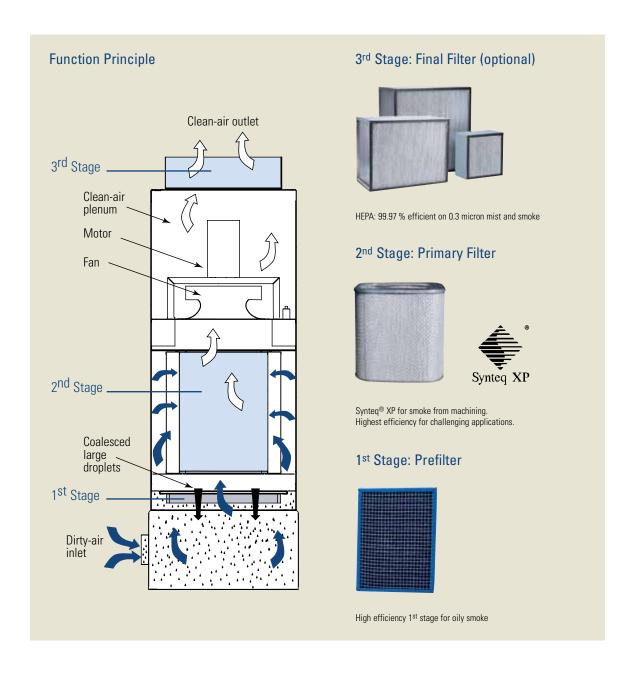


Differential pressure gauge(s) identifies filter maintenance

One pivot lever securely retains the primary filter element

Filter is easily removed

Versatile in Smoke Application









WSO application

Outperforming oblong Cartridges

WSO oblong Filter Shape Features

- Up to 45 % more filter surface area than pocket filters and round cartridges
- Best fit in rectangular cabinet
- Lower pressure drop
- Longer filter life



WSO filter shape

Smoke Application

- Typical thermally generated oil mist particle size:
- 0.07 1.2 micron
- Smallest aerosols from machining
- 99.97 %* removal efficiency

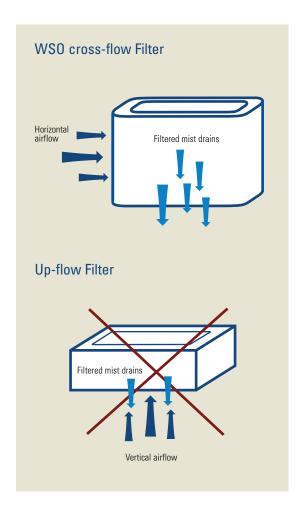


Smoke application

Cross-flow Filter Design for better Drainage means longer Filter Life

Dirty air flows horizontally through the walls of the WSO filter, perpendicular to drainage of collected and coalesced mist.

This design promotes optimum drainage, which extends filter life and returns collected coolant for re-use. Conventional mist collectors have an upflow design impeding drainage and causing short filter life.



^{*}Stated efficiency typical for oily smoke applications using a HEPA final filter.

Advanced Filter Media for Mist

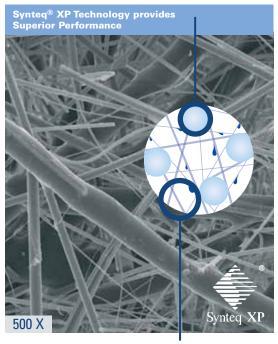
Synteq® XP is a revolutionary media for mist collection that provides high efficiency, low operating pressure drop, and long filter life when compared to traditional media.

The right photo from our Scanning Electron Microscope shows why Synteq® XP technology provides superior performance on mist collection applications.

Synteq® XP Media with resin-free, binding Fibers

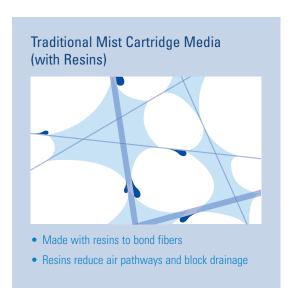
- Engineered blend of small and large fibers, with proprietary, resin-free bonding system
- Small fibers are scientifically proven to increase efficiency
- Large fibers provide structural support and clear drain channels
- Proprietary bonding system stabilizes pore structure for optimum performance

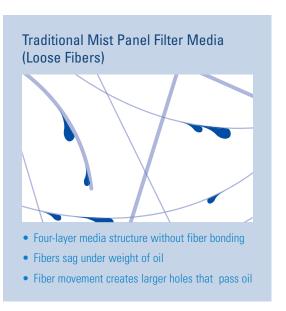
Polyester binding fiber



Glass fiber for filtration

HOW: The surface of this special binding fiber is softened with heat just enough to make it bond to the surrounding glass fibers. No webbing, no blocked pores.





Always at your disposal

Service with the highest Standards

Our service is always nearby. With our technical service and support network throughout Europe, we can routinely service your production systems as well as provide on-site support whenever needed.

With one of Donaldson's service centers you receive quick and cost-effective competent services for all filtration applications from one source.



Consulting

Total Filtration Service offers a range of services to help you determine current production efficiencies, identify areas for improvement and tailor a service program to your needs.

Inspection & Maintenance

Our service experts identify cost-effective measures for process optimisation, quality improvement and energy savings. They conduct emission measurements, leakage detection and comprehensive quality checks and not only carry out the replacement of your filter elements, but also determine the right point in time — we therefore contribute to the efficiency of your production.



Dust and Fume Removal · Oil Mist Separation



Total Filtration Management

Donaldson offers a wide variety of solutions to reduce your energy costs, improve your productivity, guarantee production quality and help protect the environment.

Total Filtration Service

A compressive range of services especially designed to keep your production at peak performance and at the lowest total cost of ownership.

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