

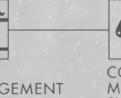
TRADE TALKS: SELECTING THE RIGHT AIR FILTRATION SYSTEM

INSIGHTS FROM INDUSTRY EXPERTS

PRESENTATION



















Overview

The purpose of this presentation is to:

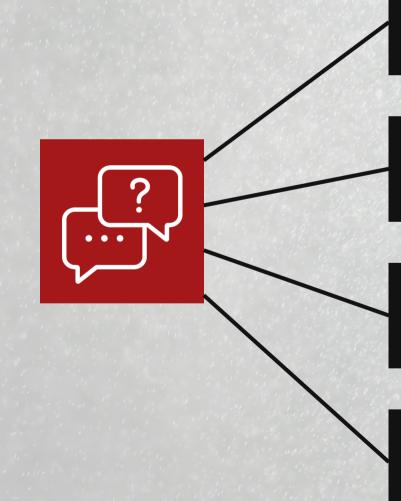
- Help guide you in making an informed decision when selecting the correct air filtration system.
- Educate you on the difference between centrifugal and electrostatic technology.
- Provide you with options to meet just about any application.





Considerations for Choosing an Air Filtration System

What to look for when selecting the right system.



What type of coolant do you have (oil or emulsion)?

1

Take into consideration machining operation along with your operating hours.



You will also need to factor in the type of material being machined (iron, aluminum, brass, stainless steel, etc.)

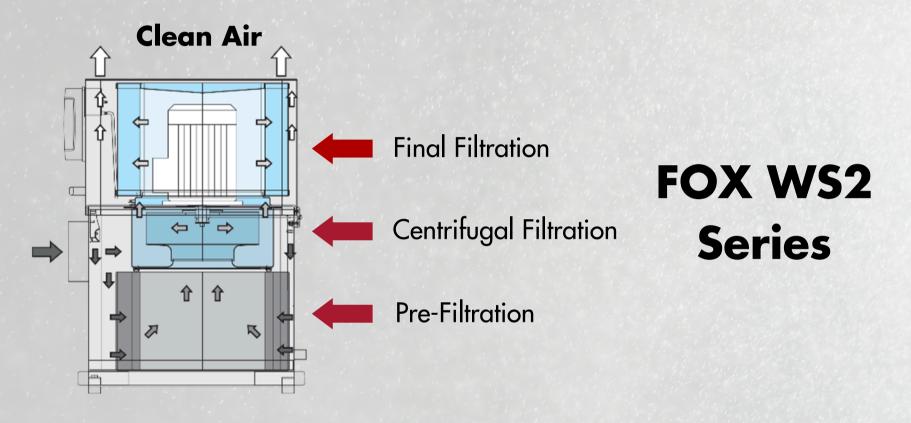


Finally, consider the machine tool enclosure volume.

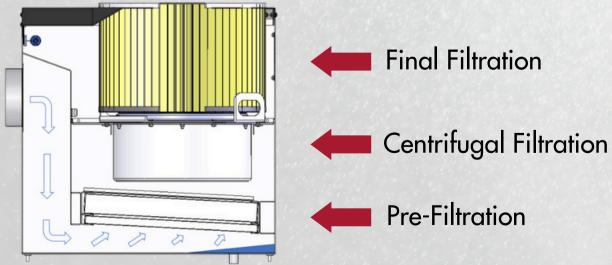
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Centrifugal Filtration Principles of Operation



FOX HM2
Series



- The air polluted by coolant mist is accelerated by a rotating impeller (turbine, drum or a simple centrifugal fan)
- The coolant mist particles collide and coalesce into larger particles, forming liquid coolant.
- The collected coolant is discharged out of a drain and clean air is returned to the plant.
- Depending on the mist collector and application, additional filtration may take place before and after the initial centrifugal filtration phase.



Centrifugal Filtration Advantages





Simple operation



Compact design



Relatively light weight



Primarily for emulsion applications



Additional filtration steps for higher efficiency



Low maintenance



LNS Centrifugal Models



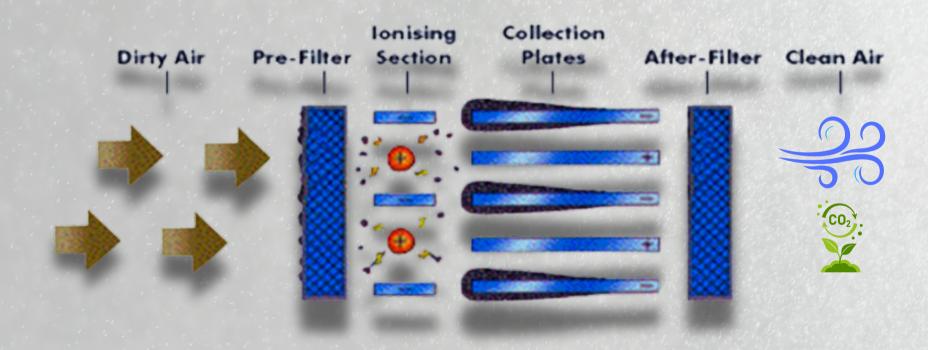


FOX WS2 Series

FOX HM2 Series



Electrostatic Filtration Principles of Operation



- The air polluted by oil mist is pre-filtered by a pre-filter. The Fox HE-1000 contains (2) metallic pre-filters.
- The oil mist particles pass through an electrostatic field and receive an ionized charge. (+)
- Ionized particles pass through the electrostatic cell with alternating charged plates. Oil mist particles are repelled by same-charged plates and attracted to opposite-charged plates, collecting only on the negative plates.
- Clean air passes through the after filter and returns to the plant. Collected oil drains from the mist collector back to the machine tool or a collection bin.



Electrostatic Filtration Advantages





Low pressure drop



Constant flow rate



Washable filters and cell



Primarily for oil applications



High efficiency



Low electrical consumption



LNS Electrostatic Model



FOX HE Series



Why Choose an LNS Air Filtration System

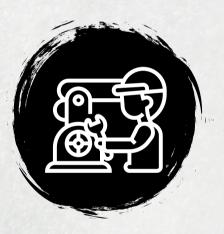
At LNS, we are dedicated to delivering high-quality air filtration systems designed to tackle the most challenging machining processes. Even the cleanest machining environments can harbor invisible air pollutants. Our advanced machines ensure a healthier environment for your employees.



Meet & exceed
OSHA and
NIOSH
standards



Easy to use and install



Field
support &
installation
if needed



Full line of spare parts available



Your One-Stop-Shop for Machine Tool Solutions



Bar feeding Systems



Work Holding Systems



Coolant management Systems



Chip management Systems



Air Filtration Systems

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