

PlymoVent

MistEliminator

The new "One For All"
Mechanical Coolant Filter



- One filter for all applications, today and tomorrow
- Adapts to changes in machine tool processes
- Easy to reconfigure to handle any type of coolant
- Expandable, just add one more module
- Minimizes your risk of making the wrong investment
- The safest decision you will ever make...
...and it runs 24 hours a day, seven days a week

www.plymovent.com

PLYMOVENT[®]
INTELLIGENT PROCESS VENTILATION™

PlymoVent MistEliminator – The concept



- Limit exposure to hazardous coolant and fumes
- Eliminating high cost for cleaning and ventilation



- Improve employee moral with better working environment
- No slippery floors – workers safety in front



- Protection of sensitive high-tech equipment
- Limitation of downtime on machinery



Oil mist – one of the most serious health and environmental problems.

Call us today for a free site consultation.



PlymoVent MistEliminator – The technology

6-step filtering process

Step 1 Inlet chamber with baffle air-knife distributes the air and prevents large particulates from entering the filter.

Step 2 HydroFilter, a labyrinth trap to separate oil droplets and coalesce oil-mist into droplets.

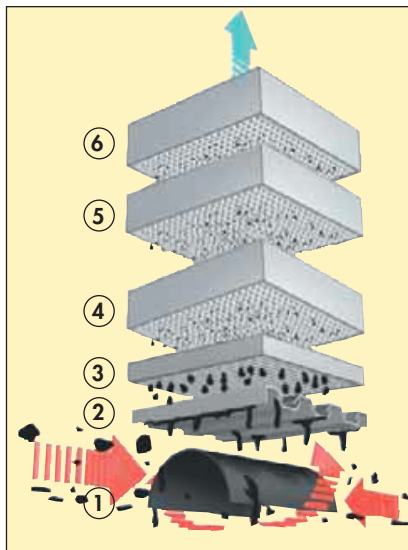
Step 3 Aluminum mesh pre-filter to screen out large particles.

Step 4 Self draining* cassette filter, coalesces oil mist to droplets and collects medium sized particles.

Step 5 Self draining* cassette filter, coalesces oil mist to droplets and collects fine particles.

Step 6 The remaining filtration takes place in the HEPA filter, with 99.97% filtration of particles down to 0,3 µm.

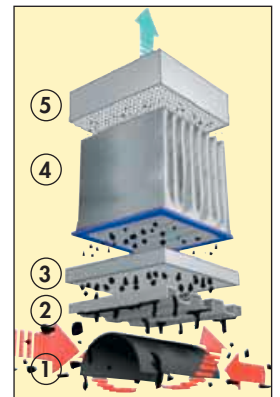
** The unique coalescing self-draining cassette is the main filtration step. Every cassette uses a 4 stage separation with both excellent draining and high separation efficiency. A minimum of pressure loss reduces required fan power and saves energy.*



5-step filtering process

Mechanical filtration with bag filters. For applications mixing wet and dry, or light applications for oil mist. Please ask for separate information.

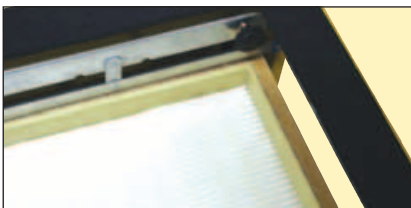
- Step 1**
Inlet Chamber
- Step 2**
Hydro Filter
- Step 3**
Mesh Prefilter
- Step 4**
Bag filter
- Step 5**
HEPA filter



4-step filtration without HEPA filter is available as option.

High degree filtration

The HEPA filter collects the finest particles, as small as 0,3 µm, with an efficiency of 99.97%. This guarantees high separating efficiency, which does not deteriorate even over long periods of operation. Clean air is returned to the premises directly or via a heat recovery system. The threshold limit values for industry are constantly being reduced and the high efficiency of PlymoVent MistEliminator complies with the strictest regulations.



PlymoVent MistEliminator – Flexible and Expandable



Change the filter – If the application changes you can easily insert a different media into the same cabinet.

3 optional inlets (right, left or back) – flexibility when connecting to duct work.



Unit finish: Corrosion resistant galvanized steel treated with baked epoxy powder coat finish which resists harsh industrial environment.

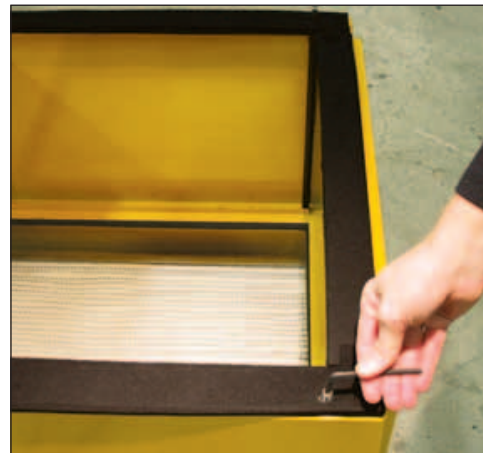


Add one extra filtration step – extra pre-filter for extreme concentrations.

Rebuild / extend the filter – when changes in production take place.

No leakage with PlymoVent Original Seals

With our 25 years of experience, we know the importance of having a 100% sealed system. The PlymoVent MistEliminator is designed to ensure that captured oil mist and smoke travel through all filtration stages. No oil mist pooling in the housing, since filter cassettes are locked downwards, forcing the air to go straight to the filter media, where it should be.



Easy assembly at site – with only one tool the complete filter can be assembled. This enables installation in areas where large units are difficult to place.

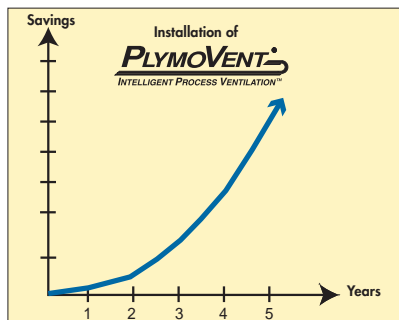


Filter life indicator

Tells exactly when to change filters. It will also give exact instructions on filter type, art. no and contact reference.

PlymoVent – Complete Oil mist System Solutions

The MistEliminator is the heart of the oil mist filtration system. But you must make sure that the oil mist reaches the filter, meaning that you also have to catch and extract it. And all this in a cost efficient way. PlymoVent is specialized in supplying components that work together perfectly for your benefit and safety.

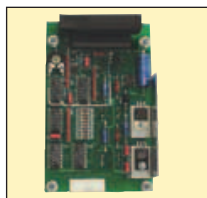


And it runs forever

PlymoVent MistEliminator means long service interval, up to several years, and continuous operation 24 hours a day, seven days a week with a minimum of maintenance.

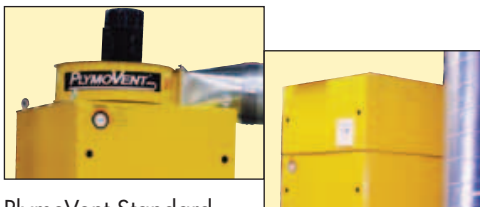
Intelligent Control Equipment

A range of products are available to make sure that extraction takes place with correct airflow and only when processes are running.



Flexible Energy Efficient Fans

PlymoVent **Intelligent Process Ventilation** includes products that collect pollutants at source, using energy efficient fan.



PlymoVent Standard F-Series can be directly mounted on filter unit. For best visual appearance, an extract fan can be built into the housing.

Specially designed hoods

The PlymoVent extractions arms have a range of specially designed hoods that makes it possible to tailor a solution to meet your specific needs.



Clear-Thru Source Extraction Arms

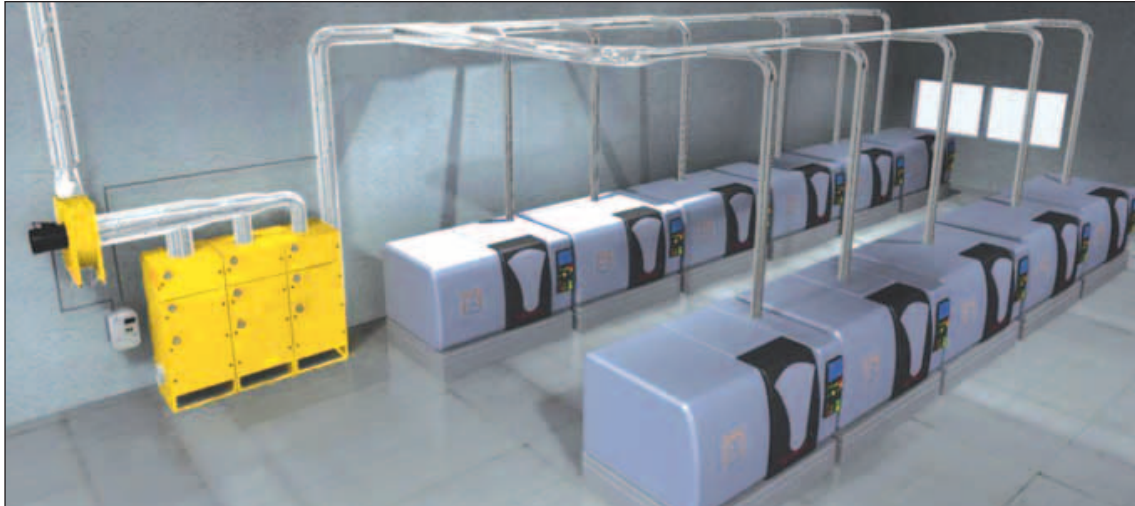
Most of the PlymoVent extraction arms provide unobstructed airflow without turbulence. Our clear-thru design will ensure that you reach the required airflow and avoid problems with oil gathering in the ducting.



PlymoVent Intelligent Process Ventilation

The PlymoVent representative will design, supply, install and commission your system ensuring your complete satisfaction. Planned maintenance and performance assurance also ensures that you will never regret your investment.

Application options



MistEliminator connected to central fan in machining center



Source extraction arm system connected to MistEliminator



MistEliminator connected to large machine



MistEliminator connected to three tooling machines

**The safest decision you will ever make...
...and it runs 24 hours a day, seven days a week**

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