

# MistWizard™

Eliminate coolant mist and smoke from your machine tool



[www.plymovent.com](http://www.plymovent.com)

**PLYMOVENT®**  
INTELLIGENT PROCESS VENTILATION™

# PlymoVent's MistWizard™

## the perfect solution for single or multiple machine tool applications!



**Worker's safety** is improved by reducing coolant from spreading throughout your facility, thus eliminating slippery floors and employee hazardous.

**Employee moral** will increase by the favourable work environment you provide by reducing airborne pollutants. This in turn reduces workers' absenteeism and increases their productivity.

**Building maintenance** is reduced by collecting machine coolant at the source and eliminating their travel to sensitive high-tech equipment which causes expensive downtime.

**Health risks** will be dramatically reduced by removing the hazardous coolant fumes out of your employee's breathing zone. The worldwide employee exposure standards which are set for machining coolants are constantly being reduced.

You may be surprised to learn that you are out of compliance with today's standards.

**Call us today for a free air quality survey.**

**Filtering efficiency (up to 99.97%)** of the MistWizard™ maximizes the return of coolant back to your process. Money will be saved by not having to replace lost coolant that is escaping from your machine tool today.

**Energy consumption** of the MistWizard™ is **25-50%** less per year than other competitive brands. This is achieved by state of the art fan/filter technology that requires less kW/HP to provide higher air delivery to your machine tool.

**Guaranteeing a return on your investment in less than one year.**



**Operating costs** will be lowered by not allowing coolant clouds to reduce work shop lighting or effect your heating and cooling systems efficiency.

**Installation cost** is lowered by direct mounting a MistWizard™ to the machine tool. This eliminates the need for costly duct work and complicated electrical connections.

When a central system solution is chosen, you will not require a coolant sealed duct system or costly fire suppression systems, since the coolant is collected at your machine and not transported through the central system.



## AquaSpin™/Coolant-Tec™ filtration technology

This filtration technology is the newest breakthrough in machine tool coolant collection in over a decade.



**MistWizard™** starts its filtering process with a revolutionary patented inlet. The MistWizard™ mounts on your machine where the source of the mist or smoke problems start, without the need of drawing back the coolant through ductwork to a large central filter.

MistWizard™ recycles coolant back to your machine tool – **where you paid for it to be.**

**Coolant-Tec™** is a low cost washable filter membrane that handles both oil and water base coolant mist and smoke applications. This synthetic filter membrane will not compress like glass fibre filters. The PlymoVent Coolant-Tec™ filter maintains its efficiency even in the harshest machine tool environments.



**AquaSpin™** inlet will capture and return to your machine more coolant than most units will collect. Studies show the AquaSpin™ inlet achieves a higher efficiency than most ASHRAE type filters.



## LocSeal™ Mechanical Advantage

PlymoVent incorporates the only 100% filter seal in the coolant filter industry.

**LocSeal™** is an integrated filter sealing system that places the filter seal outside of the air stream. All other filter seals are in the airflow where they are attacked by coolant that leads to filter by-pass and coolant breakthrough.

The patented filter draw lock design guarantees 100% sealing and makes filter service clean and easy as **1, 2, 3.**



**Step 1:**  
Open the LocSeal™ clamp.

**Step 2:**  
Remove the filter element and replace with new or spare when filter life indicator reaches final pressure.



**Step 3:**  
Close the LocSeal™ clamp.

### Machine Tool Processes

CNC Machining  
Transfer Machining  
Lathing Machines  
Milling Machines  
Screw Machines  
Wet Grinding  
OD Grinders  
ID Grinders  
Rotary Grinders  
Thread Cutting

Honing  
Hobbing  
Broaching  
Drilling  
Stamping Presses  
Electrical Discharge Machine  
Parts Washers  
Wet Cutoff Saw  
Water Cutting Machines  
Water Jet Machines

### Coolant types

Water Based Emulsions  
Synthetic Oil  
Semi-synthetic Oil  
Straight Cutting Oil

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# Application options



**Machine mount**



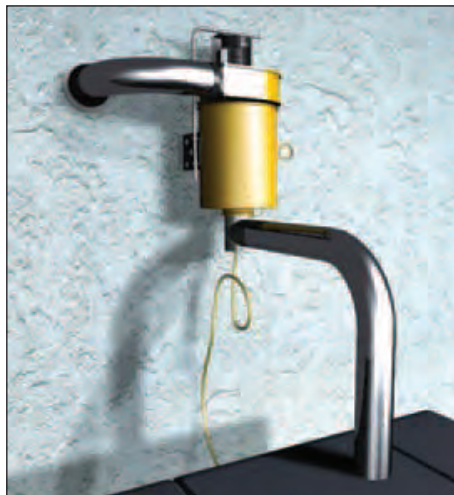
**Ceiling mount**



**System solution**



**Wall mount – recycled**



**Wall mount – exhausted**



**Stanchion mount**

**PLYMOVENT**<sup>®</sup>  
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