

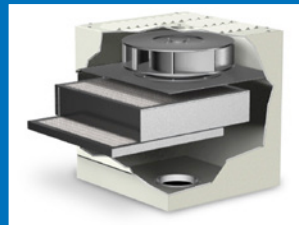
MPH1.5

OIL MIST COLLECTOR

Airflow
SYSTEMS INC.

SPECIFICATIONS

Construction:	18 gauge, welded steel cabinet; powder coated finish.
Blower Pkgs (HP):	Motorized, backward-inclined impeller
Noise Level (dBA):	64
Electrical:	110/1/60, 1.6 amps, std.
Dimensions:	W- 13.5" H- 16" D- 13"
Air Flow Max (CFM):	150
Weight (lbs.):	32



**MERV 14 Rated Main Filter
& Backward-Inclined Blower**

High-Efficiency Oil Mist Control in a Compact, Machine-Top Design

The MPH1.5 oil mist collector is a compact, machine-top solution designed for efficient oil mist control in space-constrained machining environments. Featuring a MERV 14 main filter, sealed 18-gauge steel cabinet, and an energy-efficient backward-inclined blower, the MPH1.5 delivers reliable contaminant capture with excellent airflow and low power requirements. Its low-profile design, superior liquid drainage, and maintenance-friendly filter access make it ideal for continuous operation directly above machine tools, even in low-ceiling applications.

Options

- **Pressure Gauge Kit:** Monitors air pressure at inlet for reduced static pressure; indicates need for filter cleaning, ensures optimum energy efficiency.
- **High-efficiency Internal Filters:** Including: 99.97% HEPA, and MERV 14 rated, rigid-style, washable cartridge filters.
- **Ceiling-hung Mounting Kit:** Easily suspend unit above machine tools where machine-top mounting is unavailable.
- **10-inch Lift Kit:** Provides clearance for inlet ducting; simplifies access for maintenance operations.
- **Intelligent Controls for "Intelligent Efficiency":** Provides significant savings on your energy bill while reducing facility noise levels.

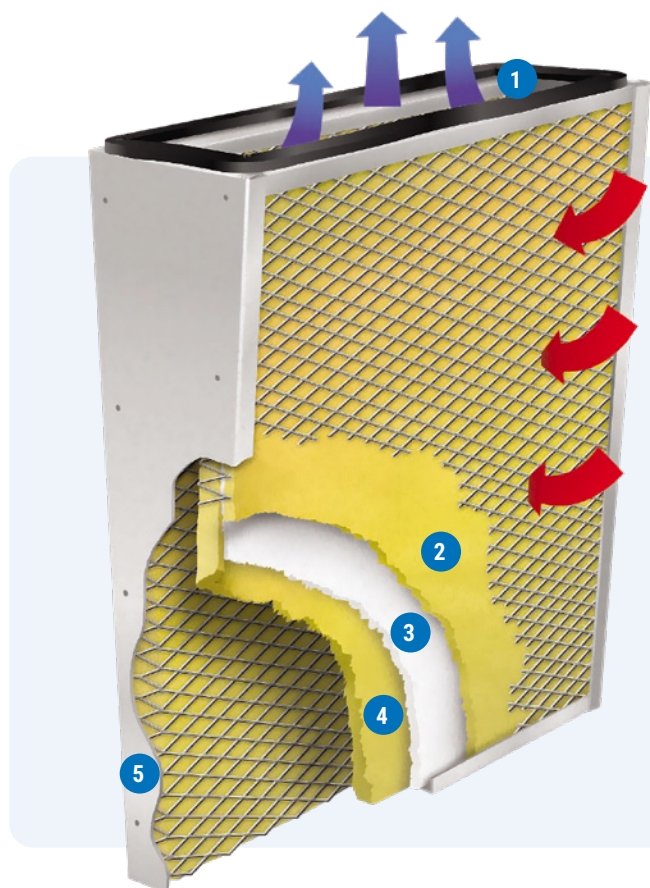
Features & Benefits

- **MERV 14 Collection Efficiency:** Designed specifically for oil mist, the MERV 14 rated main-filter provides a contaminant barrier.
- **Sealed Cabinet Construction:** 18 gauge steel, seam-sealed cabinet eliminates contaminant escape common with stitch-welded or bolt-on panel designs.
- **Lever locking Filter Placement System:** Ensures quick and accurate filter replacement; eliminates contaminant bypass of filters, reduces equipment and facility maintenance. Side access door speeds filter maintenance.
- **Low-profile Cabinet Design:** Machine-top orientation enables installation directly above the machine tool-even in low ceiling applications; saves floor space.
- **Superior Liquid Drainage:** 4-inch bottom inlet allows for 24-hour, 7-day operation with no need for manual handling of collected liquids.
- **Backward-Inclined Blower:** Energy-efficient; superior air flow, low horsepower requirement, higher static pressure operation; acoustically-lined blower cabinet.

Mist-Plus® Contaminant Management System Offers Superior Performance in Oil Mist Filtration

Most pleated or pocket filters are adapted from dry dust systems and can't handle fine oil mist (3 microns and smaller). They clog quickly and offer poor drainage, leading to frequent filter changes.

Mist-Plus® is engineered specifically for oil mist, using multi-layer glass media in custom frames to capture, drain, and remove fluids efficiently. **The result: longer filter life, reduced dirt loading, and lower maintenance.**



Features & Benefits

1 Clean Air Release

Open filter frame design allows unrestricted release of clean air back into the work environment for maximum operating efficiency.

2 First Loading Layer

The First Loading Layer collects larger dry particles, removing them from the air flow path while maintaining the integrity of the high-efficiency Fiber Barrier Layer.

3 Fiber Barrier Layer

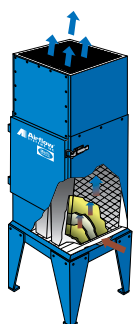
A high-efficiency (95% + efficient on 1 to 4 micron mist droplets) glass fiber barrier collects the fine oil mist particles, agglomerating the mist to better facilitate re-liquification and drainage.

4 Contaminant Management Layer

A proprietary layer drains liquid from the Fiber Barrier to the sump, extending filter life and eliminating the need for pleated dust-style filters and air-to-cloth ratio issues.

5 Gravitational Filter Design

These washable, V-shape or circular design filters use gravitational pull to aid in the drainage of collected mist, reducing filter replacement cost and frequency. (Circular filter design used in MP4).



Mist-Plus® Series Air Filtration Path

Air flow passes through four filtration stages, maximizing filtration efficiency without compromising motor/blower operating efficiency.

- 1 Aluminum Mesh Pre-filter
- 2 First Loading Layer
- 3 Fiber Barrier Layer
- 4 Contaminant Management Layer

2-Year Filter Life

The Airflow Systems MistPlus® filter life can exceed 2 years when the MP Series Mist Collector is properly applied and installed.

Washable Filter Design

Improves overall system operating costs. Filter replacement frequency and costs are reduced; maintenance cycles are extended.