

# MPH5

## OIL MIST COLLECTOR

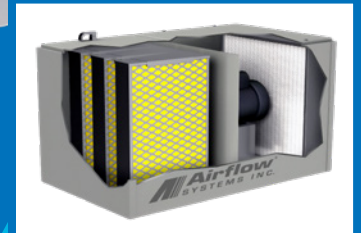
**Airflow**  
SYSTEMS INC.

### SPECIFICATIONS

|                            |                                                                                 |
|----------------------------|---------------------------------------------------------------------------------|
| <b>Construction:</b>       | 16 gauge, welded steel cabinet; powder coated finish.                           |
| <b>Blower Pkgs (HP):</b>   | 1/2 HP Motorized Backward Incline impeller                                      |
| <b>Noise Level (dBA):</b>  | 71 (with after-filters)                                                         |
| <b>Electrical:</b>         | 1/2 HP, 115/1/60, 7.2 amps (std)<br>1/2 HP, 208-230/460/3/60, 2.6-2/1 amps opt. |
| <b>Dimensions:</b>         | W- 34.05" H- 20.06" D- 20.18"                                                   |
| <b>Air Flow Max (CFM):</b> | 500                                                                             |
| <b>Weight (lbs.):</b>      | 148                                                                             |



MistPlus® Containment  
Management System



## High-Performance Oil Mist Collection in a Compact Design

The MPH5 oil mist collector delivers reliable, high-efficiency oil mist control for demanding machine tool applications. Featuring the MistPlus® II filtration system, it captures up to 95% of 1–4 micron mist droplets while extending filter life and reducing maintenance. With a sealed steel cabinet, compact machine-top design, energy-efficient blower, and continuous liquid drainage, the MPH5 provides dependable performance, lower operating costs, and long-term durability.

### Options

- **Pressure Gauge Kit:** Monitors air pressure at inlet for reduced static pressure; indicates need for filter cleaning, ensures optimum energy efficiency.
- **Side Panel Inlet:** Adaptable to virtually any facility or equipment configuration.
- **High-efficiency After 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.

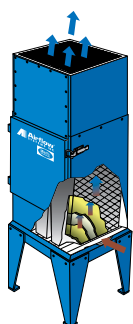
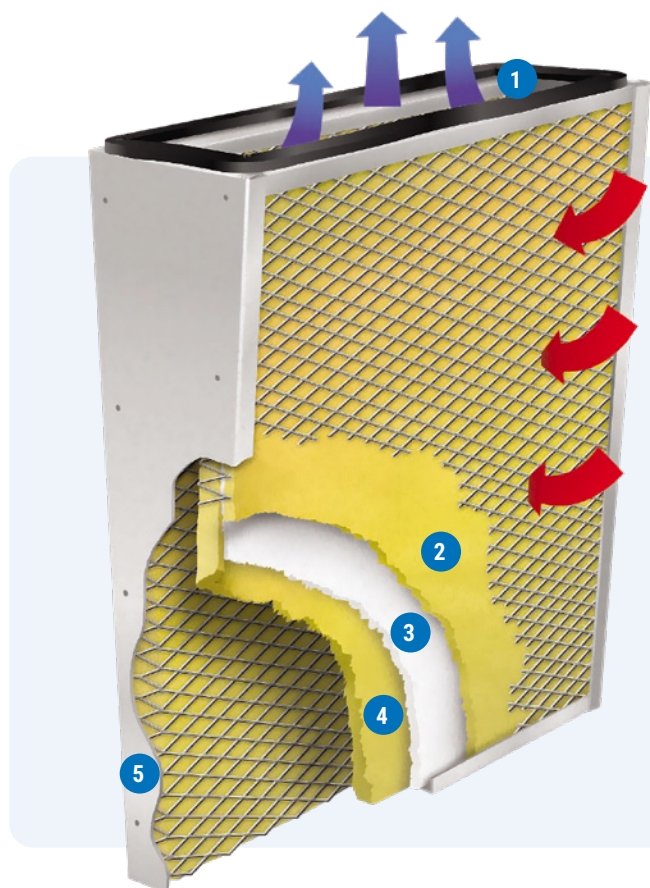
### Features & Benefits

- **95% Collection Efficiency at 1 to 4 Microns:** Designed specifically for oil mist, the Airflow Systems, Inc.® MistPlus® II filter provides up to 95% filtration efficiency of 1 to 4 micron mist droplets. The proprietary, V-shaped filter design aids in drainage of collected mist; extending filter life.
- **MERV 14 Collection Efficiency:** MERV 14 rated after-filter provides an additional contaminant barrier. Collection efficiency is increased; filter life is extended.
- **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. Top 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:** 8-inch bottom inlet allows for 24-hour, 7-day operation with no need for manual handling of collected liquids.
- **Extended Filter Life, Reduced Maintenance:** MistPlus® II filter design reduces dirt loading and filter maintenance; extending filter life up to two years.
- **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.**



#### 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

#### 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).

#### 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.