

MPH10

OIL MIST COLLECTOR

Airflow
SYSTEMS INC.

SPECIFICATIONS

Construction:	16/18 ga. zinc-coated welded steel, powder coated cabinet
Blower Pkgs (HP):	1 std., 0.5 opt.
Noise Level (dBA):	77.5
Electrical:	1 HP - 115/1/60, 12 amps, std. 1 HP - 208-230/460/3/60, 3.7-3.6/1.8 amps, opt. 0.5 HP - 115/1/60, 7.2 amps, opt. 0.5 HP - 208-230/460/3/60, 2.7-2.6/1.3 amps, opt.
Dimensions:	W- 47.56" H- 20.06" D- 22.18"
Air Flow Max (CFM):	1000/500
Weight (lbs.):	191



MistPlus® Containment
Management System



Powerful Mist Control for a Cleaner, Safer, More Efficient Facility

The MPH10 oil mist collector with MistPlus® Contaminant Management System delivers cleaner, quieter, and more energy-efficient performance by capturing oil mist and dry contaminants with over 95% filtration efficiency. Built for long-term reliability, it reduces operating costs, extends filter life, and minimizes maintenance cycles. Compact and versatile, the MPH10 integrates seamlessly into new or existing systems—providing powerful, efficient mist control for a cleaner, safer facility.

Options

- **Pressure Gauge Kit:** Monitors air pressure at inlet for reduced static pressure; indicates need for filter cleaning, ensures optimum energy efficiency.
- **High-efficiency and Application-specific After Filters:** Includes 99.97% HEPA or MERV 14 rated, rigid-style, washable cartridge filters.
- **Drain Loop Kit:** Simplifies collection and reclamation of captured oil mist while providing drain line air seal when the FRONT INLET option is used.
- **Bottom Inlet:** Standard 10".
- **Intelligent Controls for "Intelligent Efficiency":** Provides significant savings on your energy bill while reducing facility noise levels.

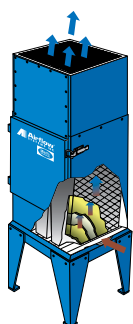
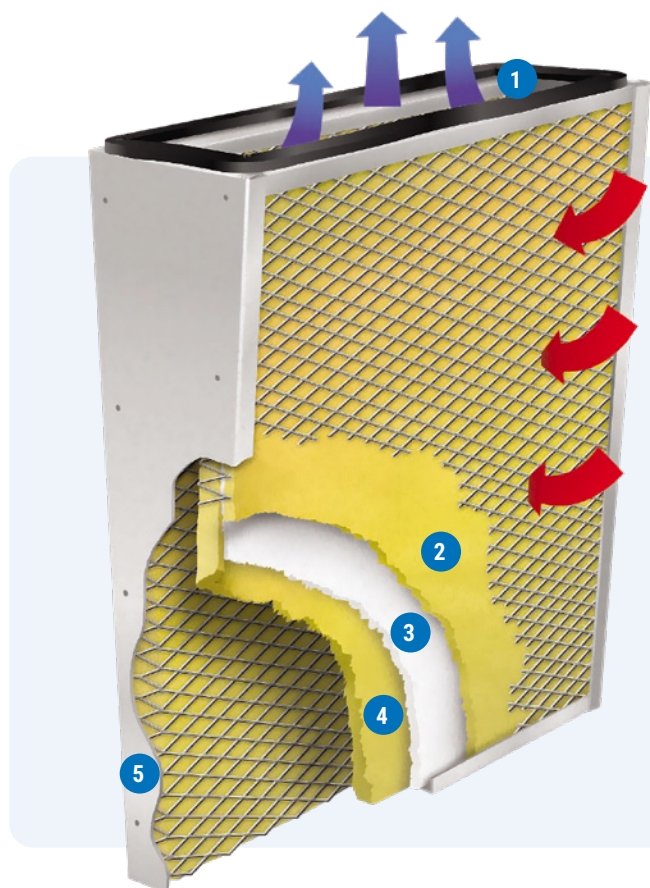
Features & Benefits

- **95% Efficiency at 1–4 Microns:** Captures oil mist droplets with proprietary V-shaped filter for better drainage and extended life.
- **MERV 14 After-Filters:** Dual filters add protection, improve capture efficiency, and extend service life.
- **Sealed Steel Cabinet:** Seam-sealed 16/18-gauge construction prevents contaminant leaks.
- **Ultra-Seal® Filter System:** Ensures tight, accurate filter placement—no bypass, easier maintenance.
- **Low-profile Design:** Fits above machine tools, even in low-clearance areas; maximizes floor space.
- **Efficient Liquid Drainage:** 10" inlet and deep sump support continuous, hands-free operation.
- **Extended Filter Life:** Reduces loading for up to 2 years of performance with less maintenance.
- **Direct-drive Blower:** Quiet, energy-efficient airflow with no belts or pulleys to maintain.

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.