

MPH8

OIL MIST COLLECTOR

Airflow
SYSTEMS INC.

SPECIFICATIONS

Construction:	18 gauge, zinc-coated, welded steel cabinet; powder coated finish.
Blower Pkgs (HP):	1 std., 0.75 opt.
Noise Level (dBA):	75
Electrical:	1 HP - 115/1/60, 12 amps, std. 0.75 HP - 115/208-230/1/60, 9.8/4.9 amps, opt. 0.75 HP - 208-230/460/3/60, 2.7-2.6/1.3 amps, opt. 1 HP - 208-230/460/3/60, 3.7-3.6/1.8 amps opt.
Dimensions:	W- 44" H- 24" D- 16"
Air Flow Max (CFM):	800
Weight (lbs.):	170



High-Efficiency Oil Mist Control in a Compact, Low-Profile Design

The MPH8 oil mist collector is a high-performance, low-profile solution engineered for efficient removal of oil mist in demanding machining environments. Featuring a sealed steel cabinet, energy-efficient direct-drive blower, and the MistPlus® II filtration system, the MPH8 delivers up to 95% collection efficiency for 1–4 micron oil mist while promoting superior liquid drainage and extended filter life. Its compact horizontal design and maintenance-friendly features 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 and Application-specific After Filters:** Including: 99.97% HEPA, 95% DOP, external AD odor control, activated charcoal, and Kmn04 filtration.
- **Drain Loop Kit:** Simplifies collection and reclamation of captured oil mist while providing drain line air seal.
- **Additional or Non-standard Inlets:** Designed to accommodate application-specific requirements; cabinet can be adapted to receive a variety of inlet configurations.
- **Intelligent Controls for "Intelligent Efficiency":** Provides significant savings on your energy bill while reducing facility noise levels.

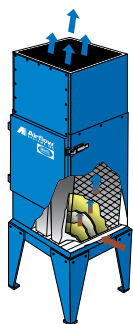
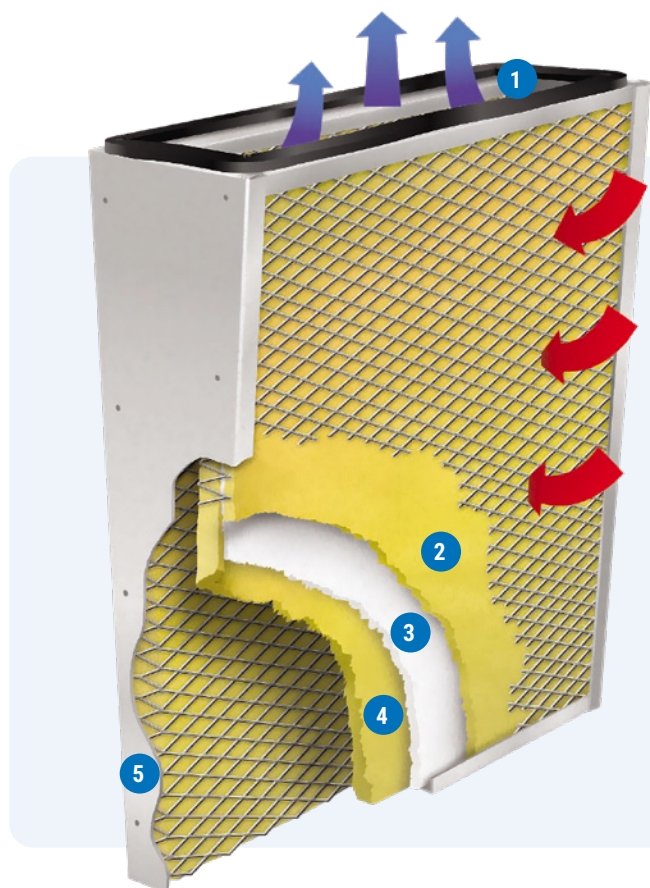
Features & Benefits

- **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.
- **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.
- **Low-profile Cabinet Design:** Horizontal orientation allows for installation directly above the machine tool—even in low ceiling applications; saves floor space.
- **Superior Liquid Drainage:** 10-inch bottom inlet and 2-inch deep sump enable high-volume, 24-hour, 7-day operation; no manual handling of liquids.
- **Extended Filter Life, Reduced Maintenance:** MistPlus® II filter design reduces dirt loading and filter maintenance; extending filter life up to two years.
- **Direct-Drive Blower:** Energy-efficient; superior air flow and higher static pressure operation; no belts or pulleys to replace, acoustic-lined 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.