

MP120

INDUSTRIAL MIST COLLECTOR

Airflow
SYSTEMS INC.

SPECIFICATIONS

Construction:	14, 12 ga. zinc coated welded steel, powder coated cabinet
Blower Pkgs (HP):	20
Noise Level (dBA):	79
Electrical:	20 HP - 230/460/3/60, 26/22 amps
Dimensions:	W- 49" H- 131" D- 53"
Air Flow Max (CFM):	12000
Weight (lbs.):	1550



Multi-Machine Oil Mist Collector Engineered for the Toughest Jobs

The MP120 mist collector is designed for extremely heavy-duty, multiple-machine tool metalworking applications. It produces 12,000 CFM with 95% filtration efficiency. The MP120 features 2" aluminum mesh pre-filters and (16) Mist-Plus® main filters, a sloped drain pan for faster reclamation of captured oil mist, and a 24" stand for floor-mounted installation.

Options

- **Pressure Gauge Kit:** Indicates when filters require cleaning.
- **Pre-Filters:** 2" polyester pad.
- **After-Filters:** 99.97% HEPA, 95% DOP and odor modules.
- **Drain Loop Kit:** Simplifies collection and reclamation on captured oil mist while providing drain line air seal.
- **Adsorption Modules:** 12" v-bank refillable after-filters.

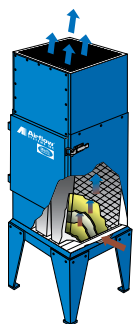
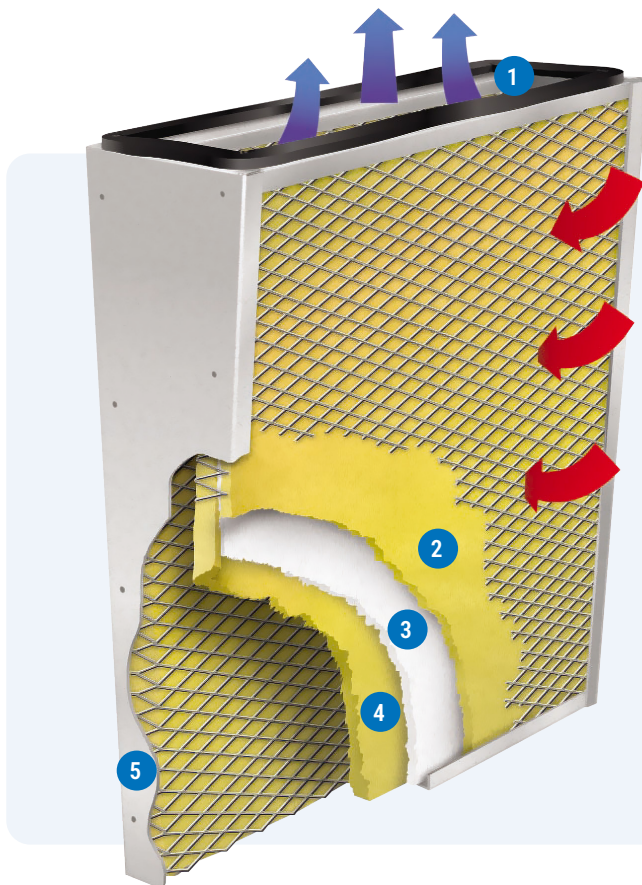
Features & Benefits

- **Exclusive Mist-Plus® Containment Management System:** Delivers over 95% filtration efficiency; reduces operating costs by extending maintenance cycles and filter life.
- **Welded steel cabinet:** Eliminates contaminant escape common with bolt-on-panel cabinets.
- **Baked-on powder coat finish:** Resists harsh industrial environments.
- **Front access filter door:** Eases filter access; reduces filter maintenance and changeout time.
- **Sloped drain pan:** Facilitates reclamation of captured oil mist.
- **Lever locking filter mounting:** Eliminates contaminant bypass of filters.
- **24" floor stand:** Stabilizes floor-mounted units; eases unit and facility maintenance.
- **Continuous draining:** Provides for longer filter life.
- **Direct-drive blower:** High static pressure blower, spark resistant; greater reliability, no belts or pulleys to replace.

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.