

Trion's Air Boss MP Series industrial mist collectors are designed to remove oil mist, coolant mist and smoke at the source to bring you in compliance with OSHA and EPA standards, improve employee safety and working conditions, protect equipment, plant fixtures and work in process, and reduce plant maintenance. They are ideal for source capture of contaminants such as water soluble, synthetic and petroleum based coolants, and grinding dust generated from operations such as screw machines, surface and centerless grinders, CNC, turning lathes, parts cleaning systems, and various other applications.

Features/Benefits

- Cleans and Recirculates Indoor Air - no expense to reheat or cool air
- Portable or Wall, Platform or Machine Mounting - eliminates the need for elaborate duct work and saves floor space
- Optional HEPA Filter - 99.97% efficiency on 0.3 micron particles
- Collects Wet or Dry Particulates - providing the capability of a wide range of applications
- Vertical Design - increase draining of filters for better collection efficiency
- Wired Directly to the Machine Tool Control - operates only when machine tool does
- High Static Blower Option- allows up to 900 CFM range @ 3.5 inches S.P.

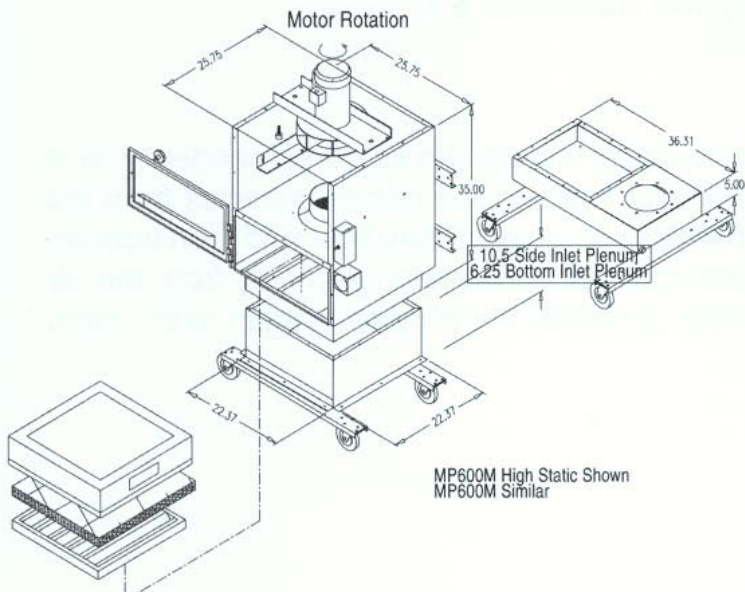
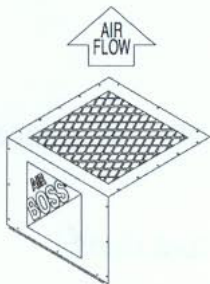
How It Works

Trion's Air Boss MP Series employs several principles to clean the air. Working independently of a HVAC system, the unit draws polluted air through its impinger, which strips micron particles from the air stream by "impaction." The remaining particulates travel through a secondary filter and then through the 95% DOP Rated PRIMARY filter which strips smoke and other submicron particles from the air stream by "interception." The blower is designed specifically to handle the filtration system at the rated cfm over the useful life of the filter.

specifications

MP600M Standard and Optional Features - Standard units are 16 gauge galvanized steel, Textured Blue industrial oil resistant paint, and 3/4" NPT drain connection.

Specifications	Standard Unit	High Static Unit	
Performance	600cfm @ 1.6" TSP	600cfm @ 4.5" TSP	
Motor	1/2 HP TEFC	1 1/2 HP TEFC	
Rpm	3500	3500	3500
Electrical UL & CSA	120V/60HZ/1PH	120-230/60hz/1ph 208-230V/60hz/3ph	120-230/60hz/1ph 208-230V/60hz/3ph
Current	9.4 amps	8.0/4.0	4.9/4.6,2.3
Blower	Forward Curved Direct Drive	Backward Curved Direct Drive Class II	
Sound	67dBa @ 5ft	70 dBA @ 5ft	
Filters (Standard)	Pre: 2" Impinger Secondary: 2" Synthetic Primary:95% DOP 90ft ²	Pre: 2" Impinger Secondary: 2" Synthetic Primary:95% DOP 90ft ²	
Filters (Optional)	Pre: Aluminum Mesh Primary: 99.97% HEPA	Pre: Aluminum Mesh Primary: 99.97% HEPA	
Plenum Options	6" or 8" Hose Connection 8" Arm	6" or 8" Hose Connection 8" Arm	
Weight	75 lbs	85 lbs	
Controls	Switch	Unit Mounted or Remote Starter	
Dimensions	26"D x 26"W x 35"H	26"D x 26"W x 35"H	



SYSTEM PERFORMANCE CURVES WITHOUT FILTERS

ADDED STATIC @	600 CFM	1000 m ³ /HR
FILTER	IN W.C.	PASCALS
99.97% DOP HEPA	1.00	250
95% DOP	.35	87
90-95% ASHRAE	.20	50
80-85% ASHRAE	.15	37
60-65% ASHRAE	.10	25
45-55% ASHRAE	.05	13
IMPINGER	.15	37
ALUM. MESH PREFILTER	.05	13
GLASS PREFILTER	.00	1

**To determine performance with various filter combinations, add total static of filters (from table) and subtract from specific option performance curves (below).

