

TRION

Air Purification Systems



Air Boss® Model 38
Industrial Mist Precipitator

Air Boss® Model 38

Under normal mechanical and thermal stresses, petroleum based and synthetic oils in lubricating systems break down into fine mist and smoke particles. These particles, under pressure, escape through bearing seals to breather vents where they are exhausted. These airborne oil mists can create health and fire hazards, violate EPA/OSHA regulations, and contribute to the fouling of relays and other electronic components. Direct venting to the atmosphere is costly and may violate EPA/OSHA regulations.

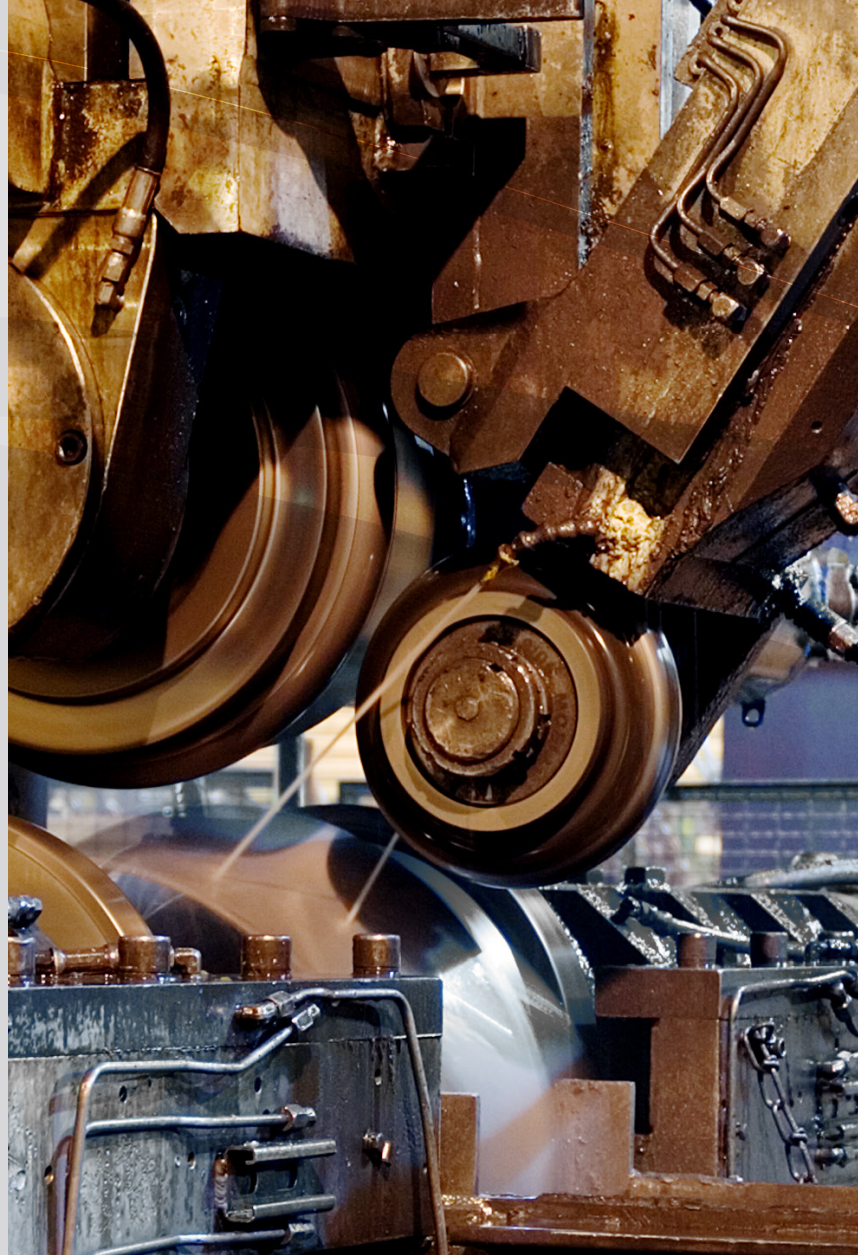
Because of the predominance of submicron size particles, oil mists generally cannot be effectively controlled by ordinary straining type filters or centrifugal collectors. High efficiency mist eliminators create excessive back pressure. Trion's Model 38 is up to 99% efficient, nonselective in the size of particles collected, contains no moving parts, and in most applications, is virtually self-cleaning.

Features & Benefits

- Removes Fumes and Oil Mist from Discharged Air: Helps maintain a cleaner work environment and reduces costly maintenance cleanup of oily accumulations.
- Spiked Ionizers: No ionizing wires to replace, which reduces maintenance replacement costs.
- Low and Constant Static Pressure: Insures machinery performance is keeping constant without excessive static pressure buildup, common in media filters.
- Shock: Designed to meet the requirements of MIL-S-901D Grade A, Class I, High Impact Shock.
- Vibration: Designed to meet the requirements of MIL-STD-167 Environmental Vibration.
- EMI: Designed to meet the requirements of MIL-STD-461 Electromagnetic Interference.
- Easily Installed and Maintained: Installs within 30 minutes to 1 hour!

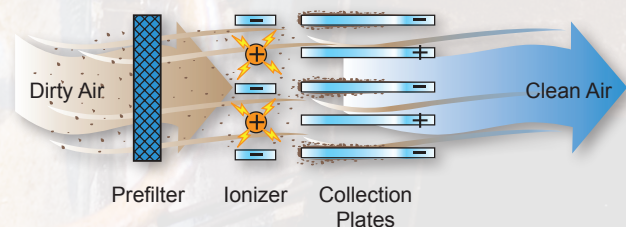
Applications

- Gas Turbines
- Vacuum Pumps
- Auxiliary Engines
- Diesel Engines
- Compressors
- Storage Tanks



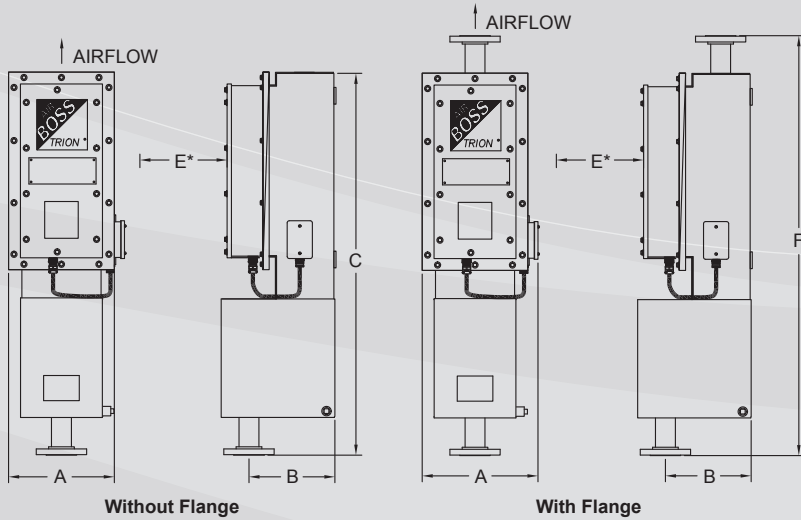
Principle of Operation

With an electronic air cleaner, air is drawn into the unit and passes through a pre-filter to capture large particles. The airborne particles then pass through an electronic field and receive an electrical charge. The charged particles move into a collector section where each alternate plate is charged with the same polarity as the particles and repels them; the other set of plates is grounded, which attracts and collects the particles. The remaining air, cleaned up to 95% of its impurities, is then returned to the plant or building.



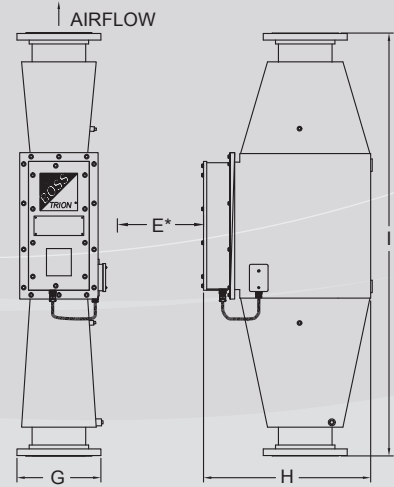
General Information

Front & Side Views (150 & 300 CFM)



NOTE: * Service Access

Front & Side Views (600 CFM)



Dimensional References

Unit Size	A	B	C	D	E	F	G	H	I
150 CFM	13 3/4"	10 1/4"	45 1/2"	13 3/4"	12"	50 1/4"	-	-	-
300 CFM	13 3/4"	15 25/32"	45 1/2"	13 3/4"	12"	50 1/4"	-	-	-
600 CFM	-	-	-	-	12"	-	12 1/4"	28 1/8"	68"

NOTE: Overall length in direction of flow are same for units equipped with flanges or threaded pipe connections.
12" minimum clearance required in front of power pack for component removal.

Connection Variations

Unit Size	Inlet and/or Outlet					Outlet
	2"	3"	4"	6"	8"	Free Air Discharge
150 CFM	Yes	Yes	Yes	No	No	Yes
300 CFM	Yes	Yes	Yes	Yes	No	Yes
600 CFM	-	-	-	-	Yes	No

NOTE: ASTM A 181, ASAB 16.5 150 PSI weld neck flange IPS or threaded pipe.

Unit Weights

Unit Size	Base Unit Weight	Added Weight for Each Flange				Added Weight for Each Pipe			
		2"	3"	4"	6"	2"	3"	4"	6"
150 CFM	135 lbs	6 lbs	10 lbs	15 lbs	-	3 lbs	6 lbs	8 lbs	-
300 CFM	150 lbs	6 lbs	10 lbs	15 lbs	24 lbs	3 lbs	6 lbs	8 lbs	14 lbs
600 CFM	300 lbs	-	-	-	24 lbs	-	-	-	14 lbs



Our Air Boss® Model 38 comes with a one-year limited warranty.



T-Series Electronic Air Cleaner

Learn more about other
Trion industrial products
by contacting your local
Trion representative or by
visiting us on the web at
www.trioniaq.com



Mini M.E. Mist Collector

TRION
Air Purification Systems

Trion®

101 McNeill Road | Sanford, NC 27330

P: 800.884.0002 | F: 800.458.2379 | www.trioniaq.com | customerservice@trioniaq.com