

# TRION<sup>®</sup>

Indoor Air Quality



**Air Boss<sup>®</sup> VOMP 600**  
*Vertical Oil Mist Precipitator*

## Air Boss® VOMP 600

TRION's Vertical Oil Mist Precipitator (VOMP) 600 electronic mist collector is designed to remove oil/coolant mist and smoke at the source. The VOMP 600 brings you in compliance with OSHA and EPA standards, improves employee safety and working conditions, protects equipment, plant fixtures and work in progress, and reduces plant maintenance costs. The VOMP 600 can be mounted directly on the machine tool for source capture of contaminants such as water-soluble, synthetic and petroleum-based coolants and smoke.

## Features & Benefits

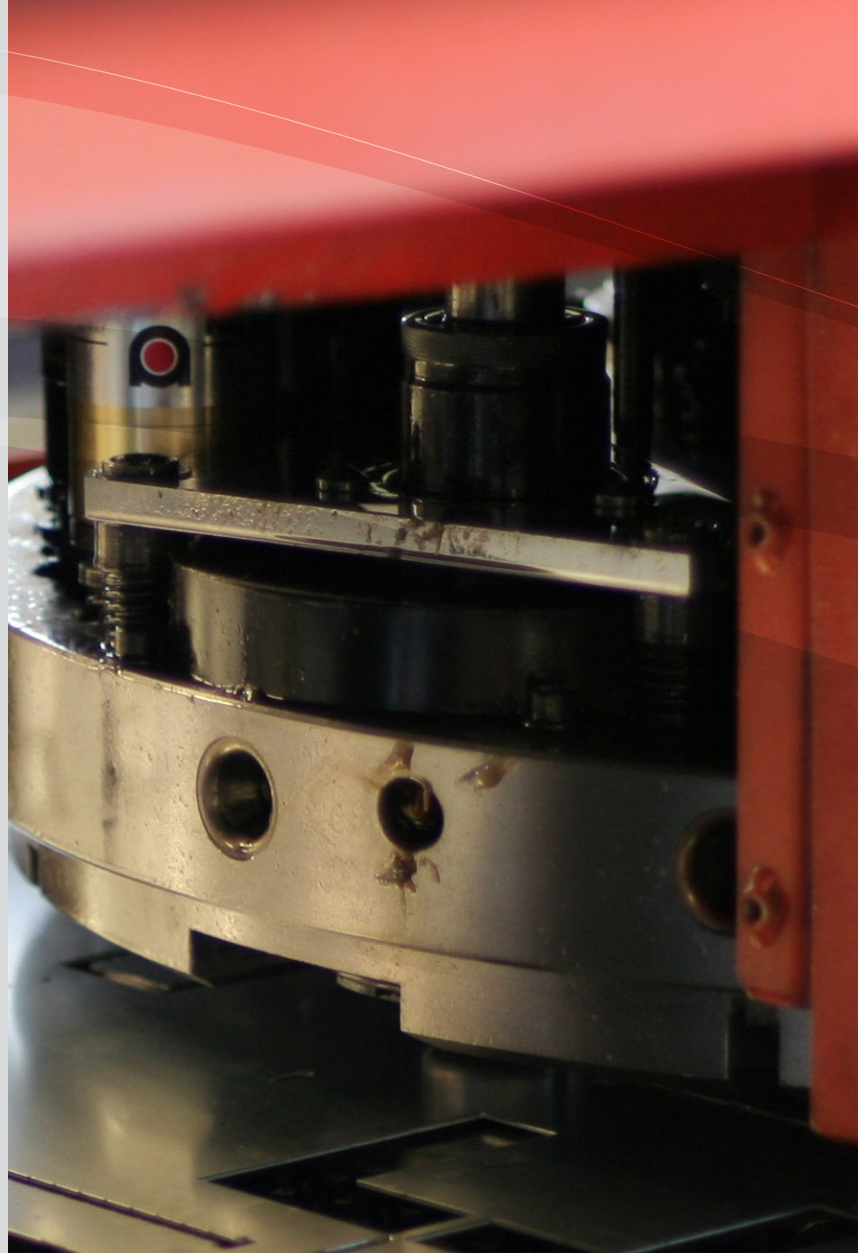
- High Efficiency: Up to 95% efficient on 0.3 micron particles.
- Cleans & Re-Circulates Indoor Air: No expense to reheat or cool air.
- Wall, Platform, or Machine Mounting: Eliminates the need for elaborate duct work and saves floor space.
- Can Be Wired Directly to The Machine Tool Control: Operates only when the machine tool does.
- Spiked Ionizer: Increases efficiency and reliability.
- Collector Cell: Made of all-aluminum plates, which eliminates filter replacement costs.
- Low Airflow Resistance: Reduces energy costs.
- Venturi-Assisted High-Voltage Insulator: Forces clean air across critical areas of the insulator to provide longer service intervals.

## Applications

- Screw Machines
- Surface & Centerless Grinders
- CNC Machining Centers
- Turning Lathes
- Parts Cleaning Systems
- Other Various Applications

## How It Works

TRION's VOMP 600 utilizes the principle of electrostatic precipitation. Air is drawn by the motor/blower through an impinger pre-filter which traps large particles. Smoke and mist particles, some as small as 0.01 microns, pass into a strong electrical field (ionizing section) where the particles receive an electrical charge. The charged particles then pass into a collector plate section made up of a series of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates, which are grounded, attract and collect oil/coolant mist, and smoke. The air is then returned fresh and clean.



## High Voltage Insulator

The high voltage components in the ionizing/collector cells are supported with insulators of a completely new design. A strategically located air passage and venturi spacer direct clean air at increased velocity across critical areas of the insulator. These areas, under positive pressure, force contaminated air away from the insulator (see Figure 1) creating the following benefits:

- Insulators stay clean, improving overall collecting efficiency.
- Higher percentage of water in soluble oil can be collected.
- Reduced maintenance.

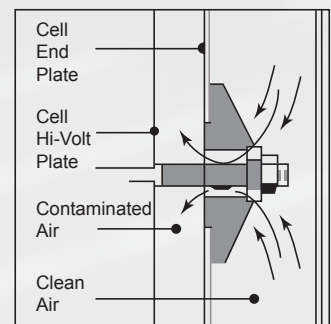


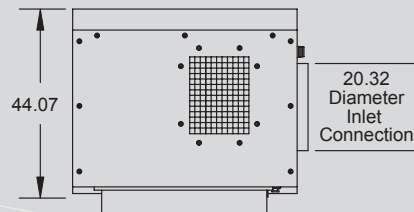
Figure 1

# General Information

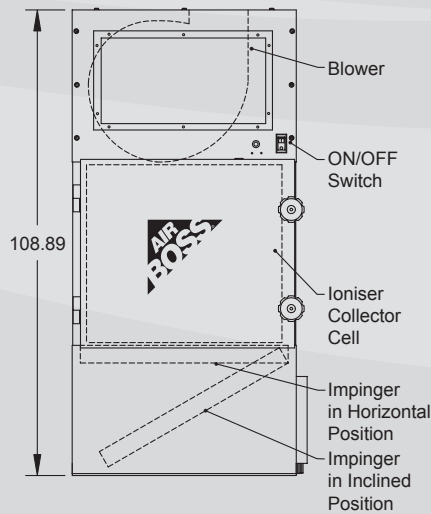
## VOMP 600

Height	42.9"
Length	17.4"
Width	21.7"
Weight	121 lbs
Drain Diameter	3/4" NPT
Inlet Connection	8" - Right Side
Cabinet	Heavy-Gauge Steel Construction
Power Supply	Solid-State Dual-Voltage Design
Air Volume CFM	330-800
Input Voltage	120-240V / 60Hz / 1-Ph
Output Voltage (KVDC)	11 / 5.5
Fan	1/2 HP
Max Static In. W.C	2.3" EXT. S.P.
No. of Cells	1 each
Cell Weight	29 lbs

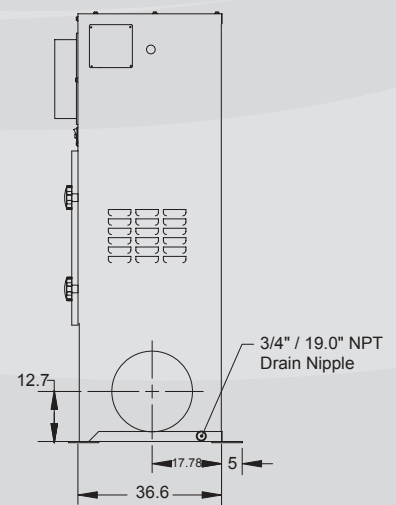
Top View



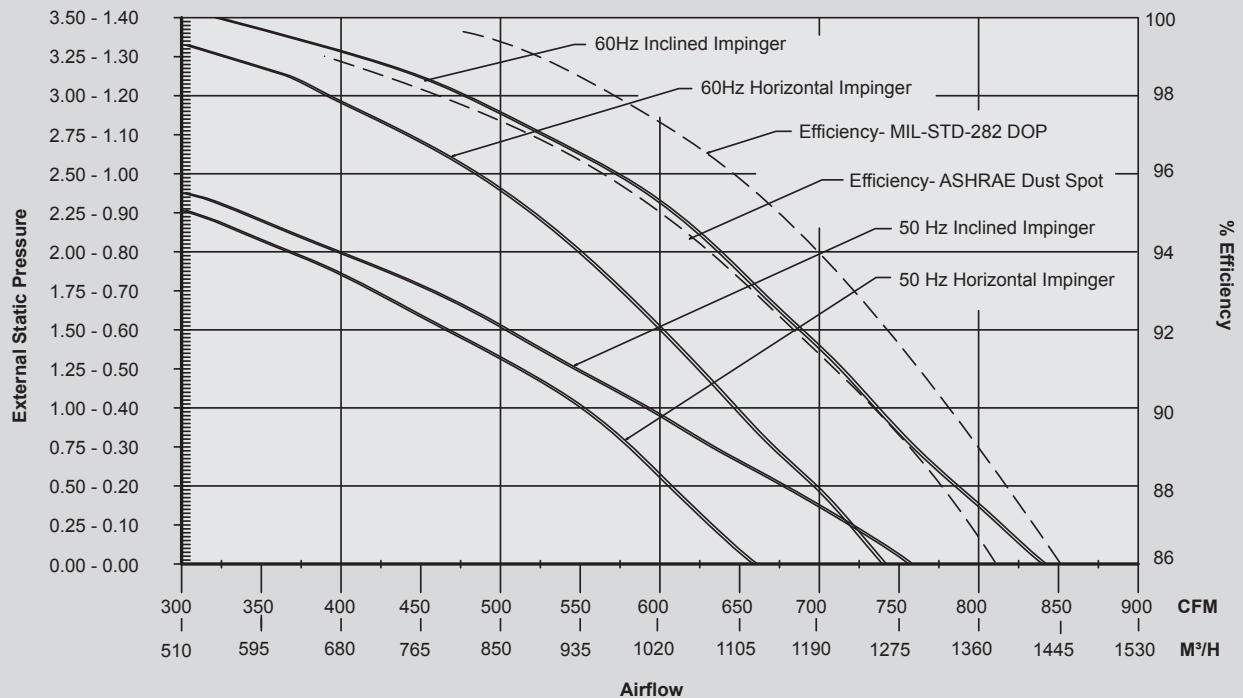
Front View



Side View



## System Performance Curves





Our Air Boss® VOMP 600 comes with a three-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](http://www.trioniaq.com).



Mini M.E. Mist Collector

# TRION®

## Indoor Air Quality

Indoor Air Quality Since 1947

ISO 9001:2015 Certified

Industry Membership:



Proudly Designed,  
Engineered, and  
Manufactured in the USA.\*



*\*Manufactured with domestic  
and foreign components.*

To help serve you better,  
please contact us at:

800-884-0002 (tel)

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