



WINDFIELDS

MECHANICAL GROUP INC

MagneGrip® **AirHAWK** AIR PURIFICATION SYSTEMS

BREATHE CLEAN AIR

WITHOUT PARTICULATES, TOXIC GASES, MICROBES AND VIRUSES



Phone: (416) 423-6885
Cell: (905) 922-7257
Email: estimating@windfieldsmechanical.ca
Website: www.windfieldsmechanical.ca

Protect First Responders' Health

When fighting fire, first responders protect themselves from toxins, soot, gases and fumes to avoid long term health concerns. In the firehouse, shouldn't they be protected against particulates and airborne viruses, bacteria and mold spores as well as toxins, soot, gases and fumes?

NFPA, EPA, NIOSH and most mechanical codes warn that diesel exhaust can cause serious health problems including cancer. The World Health Organization has classified diesel exhaust as a known carcinogen.

Diesel exhaust emissions have a mixture of different gases and some require special filtration materials for their removal. AirHAWK Air Purification Systems draw vehicle exhaust pollutants out of the air, trapping (or neutralizing) gases and particulates and then returning clean air to the facility.

The AirHAWK filtration process was developed by Sandia Laboratories and the National Renewable Energy Laboratory. This advanced technology, used by the US Department of Defense for destroying toxic organic compounds, is part of AirHAWK Air Purification Systems' units.



AirHAWK is your best choice

For fire/EMS facilities, most air cleaning systems remove particulates and some gas-phase pollutants that are released in diesel exhaust. AirHAWK offers the only system with the additional protection of Photo-Catalytic Oxidation and Ultraviolet Radiation to destroy toxic organic compounds (VOCs) and microbes. AirHAWK'S four-stage filtration process demonstrates why its air cleaning and purification performance is superior to all other systems.

30+ Years in Airflow Engineering Design

Unit placement and design of the air circulation pattern are critical to air purification and circulation effectiveness. The AirHAWK engineering team has more than 30 years of airflow design expertise. For each application, AirHAWK designs an effective air circulation pattern that provides continuous air purification and coverage for an entire area or facility.

No hoses, no hook ups, fully automatic

In the bay area, AirHAWK Air Purification Systems are ceiling mounted to avoid safety hazards. Hoses are not used and no vehicle or building modifications are needed. AirHAWK units are automatic and operate hands-free with no personnel interaction.

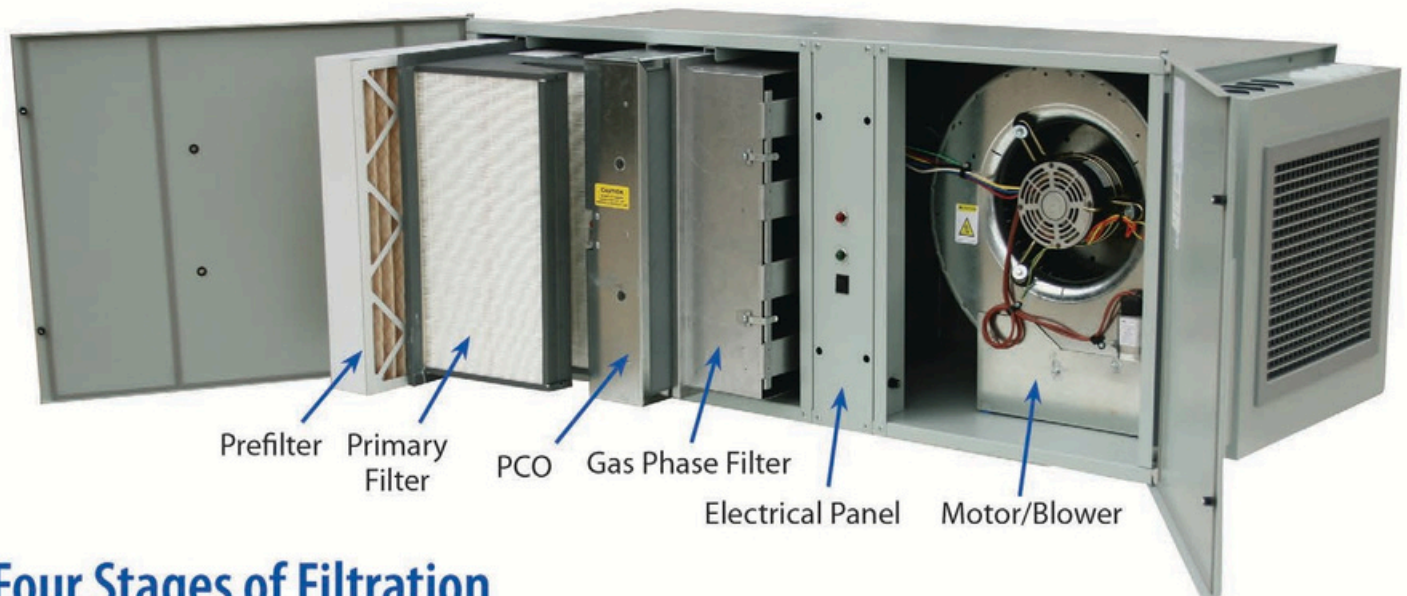
Meets or Exceeds Regulatory Standards

AirHAWK units meet or exceed the regulatory standards of OASH, NIOSH, EPA and ASHRAE. AirHAWK is Assistance to Firefighters Grant compliant.

AirHAWK Has “Best Technology” Filtration

AirHAWK Air Purification Systems have a progressive filtration process that guarantees the highest level of pollution removal. With the most advanced air filtration

available, each unit provides four stages of filtration with our unique, patented Photo-Catalytic Oxidation (PCO) process.



Four Stages of Filtration

1. **Prefilter:** Hazardous exhaust emissions are drawn into the AirHAWK filtration unit by the motor blower assembly. A pleated filter removes diesel exhaust particulate and is rated class 2, UL Standard 900.
2. **Primary Filter:** High-efficiency particulate (HEPA) filter has pleated, micro fiberglass media for high-capacity performance. Thermoplastic separators provide consistent spacing to ensure aerodynamic airflow.
3. **Photo-Catalytic Oxidizer (PCO):** Containing both ultraviolet lamps and a patented, specially coated grid, PCO helps protect against microbes, mold spores, organic compounds and viral germs. Available on AirHAWK 3000 XL model.
4. **Gas-Phase Filter:** As the air reaches the gas-phase filter, the active carbon filter traps and absorbs volatile organic compounds (VOCs) to remove them from a facility's breathing area.

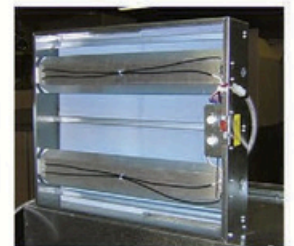


Photo-Catalytic Oxidizer



Control Panel

Standard Control Panel has these features: Automatic on/off, Manual Run / Manual Stop, Adjustable Timer, LED Display, Remote Activation.

Advanced or Custom Panel includes all Standard Control Panel features, plus: Email Alerts, Maintenance Notification, CO / NO2 Audible and Strobe Light Warning, Continuous Run 24/7 and On Demand Run, Remote Fan Operation and other Custom Features.

AirHAWK 3000 XL

Using the best technology available, energy-efficient AirHAWK 3000 XL removes more contaminants and disease-causing compounds than other air purification systems.



AirHAWK 3000 XL

LIMITED LIFETIME WARRANTY

Polluted air passes through AirHAWK 3000 XL's four-stage filtration process to remove harmful substances, such as particulates, toxic gases and other airborne contaminants. UV lamps kill viruses, bacteria and mold spores. Clean, purified air is then evenly dispersed back into the facility.

AirHAWK 2000 and AirHAWK 2000H units are also available.

Best Technology Features

- AirHAWK 3000 XL units are ETL certified to the UL 507 Standard and Canada Standard CSA C22.2.
- High efficiency blower motors: 1 hp PSC 208-230V or 1.75 hp ECM motor; 115/208-230V. Airflow: 2740/3000 CFM.
- Manual and remote activation features.
- System activation methods: Photo-Eye Sensors, Door Switches, Door Flags, CO/NO₂ Sensors, Onboard Transmitters and other Custom Methods.
- Standard and Advanced Control panels for automatic operation.
- Illuminated "in operation" light and a separate indicator for filter replacement.
- 2-speed, 24/7 on-demand run capacity.
- Low amperage for low-cost efficiency.
- Ceiling-mounted.
- Meets or exceeds all regulatory standards: OSHA, NIOSH, EPA, ASHRAE.
- Also available:
 - AirHAWK 2000-H with .75 hp motor, 115V, 2000 CFM.
 - AirHAWK 2000 with 1 hp motor, 230V, 2740 CFM.

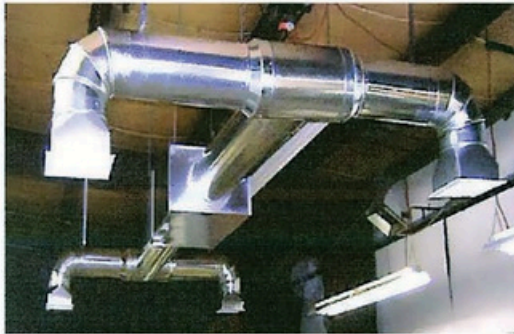


AirHAWK 1000

The AirHAWK 1000 unit is independent of an existing HVAC system. The unit can be equipped with a decorative supply grille for surface mounting (below the ceiling). For areas where aesthetics are important the unit can be installed above a ceiling with supply and return grilles – virtually out of sight. Either method will provide for a cleaner and healthier environment for personnel. UV technology kills diseases, mold spores, bacteria, and viruses to eliminate the spread of germs from one person to another. The AH 1000 has air changes up to 10 times an hour. Most HVAC systems change the air only one or two times an hour and offer no protection against germs.



AIRHAWK 1000



TWO-YEAR WARRANTY ON PARTS

Does not include UV lamps or filters.

Best Technology Features

- AirHAWK 1000 is fitted to any room with a suspended ceiling using hard or flexible ductwork.
- Surface or wall mounted.
- The system can often accommodate adjoining rooms.
- Removes particulates, viruses, mold spores, bacteria, gases, odors, etc., and returns clean, purified air.
- Chassis is 18-gauge galvanized steel.
- Motor and blower are 115 volts.
- Provides super quiet operation.
- Meets or exceeds all regulatory standards: OSHA, NIOSH, EPA, ASHRAE.

AirHAWK 265

AirHAWK 265 units are portable and free-standing and have the same filtration features and high level of particulate and germicidal protection as AirHAWK Air Purification Systems' larger units. AirHAWK 265 incorporates Photo-Catalytic Oxidation to convert toxic compounds, even carbon monoxide and nitrous oxide, into benign constituents such as carbon dioxide and water. The AH 265 has computerized controls with four modes of operation and seven-room sizes to ensure energy efficiency. A sensor detects toxic chemical fumes, high particulate counts, and gas leaks.

Best Technology Features

- Inlet and outlet grills with safety locks.
- Prefilter cleans air of particles larger than 5 microns.
- Two gas absorption layers remove toxic chemical and gases.
- Hospital grade filter removes allergens: pollen, mold, fungal spores, etc.
- Quiet, reversed-curved, motorized impeller with sealed ball bearings.
- Construction is high-impact ABS plastic.
- High output germicidal UV lamp kills viruses and bacteria.



TWO-YEAR WARRANTY ON PARTS

Does not include UV lamps or filters.



AIRHAWK + MAGNEGRIP = MAXIMUM PROTECTION

Fire departments and municipalities throughout the country are taking a hard look at the overwhelming statistics and warnings about firefighter and EMT health and how vehicle exhaust emissions increase cancer risk. Many fire departments are addressing the problem by combining two state-of-the-art systems from one company—MagneGrip—to ensure that their firefighter/EMTs have maximum protection.

MagneGrip is the only company that manufactures both source-capture exhaust removal systems (MagneGrip) using hose-and-nozzle that connect to the apparatus tailpipe, and air purification systems (AirHAWK) filtration units that suspend from the ceiling.

This combination provides the most complete protection from engine diesel exhaust, off-gases from equipment and turnout gear used at the fire scene, toxic air blown in from the tarmac, and airborne contamination. This combination system provides greater liability protection for municipalities—and it best fits the intent of FEMA recommendations.

Let us show you why more Fire Departments are choosing AirHAWK Air Purification Systems.

MagneGrip®

MagneGrip
EXHAUST REMOVAL SYSTEMS

MagneGrip
AirHAWK
AIR PURIFICATION SYSTEMS



WINDFIELDS
MECHANICAL GROUP INC.

FREE Grant Assistance

Phone: (416) 423-6885

Cell: (905) 922-7257

Email: estimating@windfieldsmechanical.ca

Website: www.windfieldsmechanical.ca