

AIRMATION®

FILTRATION SYSTEMS

Fleet Maintenance and Industrial Applications



Meets or Exceeds Regulatory Standards or Recommendations

- OSHA
- EPA
- NIOSH
- NFPA
- ASHRAE
- ACGIH
- CSA
- GSA

• USA/FEMA Grant Compliant



AIR TECHNOLOGY SOLUTIONS, INC.

AirMATION Filtration Systems

Provide a wide range of environmental solutions utilizing State-of-the-Art Biologic Filters

All of the AirMATION Industrial Air Cleaners have a multi-stage progressive filtration system designed to virtually remove airborne particulate contamination and gaseous pollutants and reduce CO to within regulatory requirements. The AMARB model includes synthetic "auto-roll" media. It becomes ideally suited for applications where high levels of airborne contaminants would ordinarily require frequent filter replacement, thereby adding to energy, material and labor costs.

This feature is a totally automated function that indexes the media roll 5-6" at a time, based upon the pre-set factory pressure setting.

The "auto-roll" feature provides a large inlet

surface area of over 11 square feet and over 200 linear yards of media per roll. This highly efficient synthetic media continuously removes high volumes of airborne contaminants.

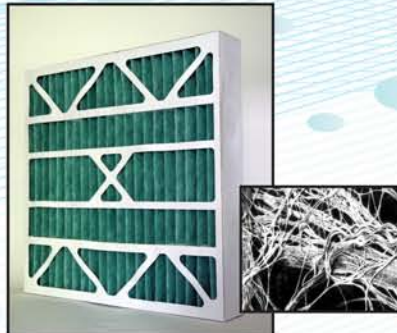
The maintenance, life and performance of the remaining filters are thereby greatly extended and enhanced.

All models include a separate and independent air pressure switch to continually monitor filter status and unit operation. A red-neon warning signal is activated when airflow volume is decreased due to filter loading. Air purification solutions have never been easier or more versatile than with AirMATION.

FILTERS

Progressive Filtration System

Stage #1, Pre-filter. Pleated (24 x 24 x 4") Biologic Filter media is composed of blended and natural fibers for better than 90% arrestance on particulate as small as 4 microns in size. Filter is rated at MERV 8



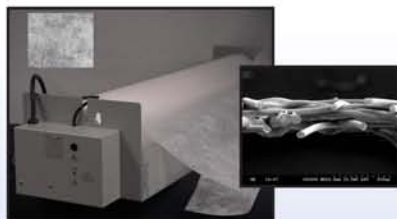
Stage #2, Final filter. High efficiency (24 x 24 x 12") V-bank Biologic cell, with over 200 sq. ft. of ultra fine micro-glass fiber media successfully removes pathogenic organisms and sub-micron particulates such as bacteria and mold spores. Filter is rated at MERV 16.



Stage #3, Gas phase. V-bank Biologic cell construction with 50/50 blend of over 26# of activated coconut shell carbon and potassium permanganate. Designed for the virtual removal of both high and low molecular weight hydrocarbons and numerous VOC's and the reduction of CO levels to within regulatory requirements.



Optional, Auto-Roll media is positioned prior to stage #1 pre-filter when Auto-roll is included. Composed of polyester media that acts as a roughing filter and is 83% efficient on 8-10 micron size particles.



APPLICATIONS

- Fleet Maintenance
- Welding/Machine/Wood Shops
- Parking Garages
- Body Shops
- Loading Docks
- Manufacturing Facilities
- Fire/Rescue
- EMS
- Postal Facilities
- Printing Shops

REMOVES/REDUCES

- Diesel/Soot/Fumes/Gases
- Airborne Particulates
- Exhaust Haze
- Soot Haze
- Welding By-Products
- Volatile Organic Compounds (VOC's)
- Nitrogen Oxide (NOX)
- Carbon Dioxide (CO2)
- Carbon Monoxide (CO) reduced to within regulatory requirements
- Buffing Dust
- Saw Dust

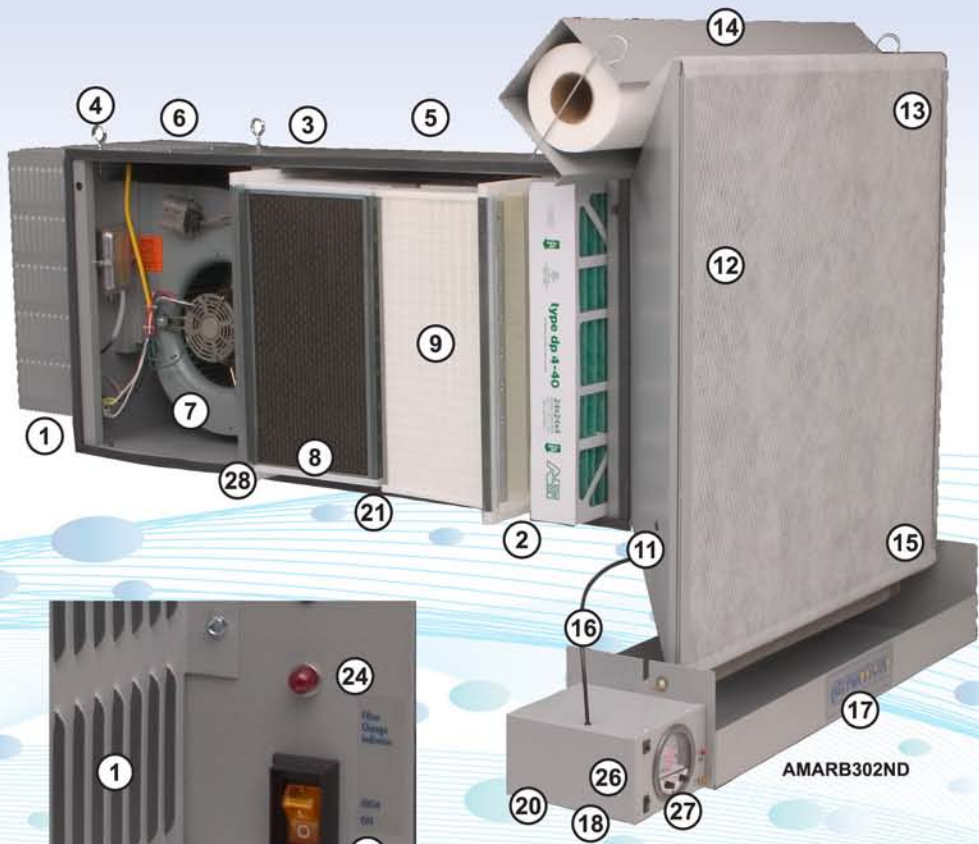
FEATURES & BENEFITS

- Any Ceiling Height Accommodated
- Quiet Operation <60 db
- Automatic Filter Change Indicator
- Easy Installation
- Factory Trained Installer Available
- Low Electrical Consumption
- Ceiling Hung, Out-of-the-way
- Designed for 24/7 Use
- Automated Activation Systems
- No Building or Vehicle Modifications
- Personnel Health and Safety
- Recirculation of Pure Air
- Easy Maintenance/No Adjustments
- Regulatory Compliance
- Contaminant Control with Open or Closed Doors
- Increased Productivity
- Clean Work Place
- Units can be Outfitted with Germicidal UV Lamps if Required

ACTIVATION OPTIONS

- 1 - Manual
- 2 - CO Sensors
- 3 - Timer
- 4 - Automatic Start

**CONFORMS TO UL STD 507
CERTIFIED TO CAN/CSA STD
C22.2 NO.113**



1. 300 directional louvers – Baffle Box
2. positive seal full frame gasketing
3. 4 eye bolts (for suspension)
4. electrical cord – 12'
5. heavy duty 16 ga. steel cabinet
6. pressure sensing switch
7. direct drive dual inlet blower mfg. rated @ 3000 CFM
8. carbon/alumina blend V-Bank cell
9. high efficiency V-Bank particle filter
10. pleated pre-filter
11. flanged auto-roll housing
12. perforated steel screen
13. synthetic polyester auto-roll media
14. auto-roll tube enclosure
15. auto-roll take-up spool
16. pressure probe for roll media
17. removable collection tray
18. subfractional indexing motor
19. 180° side loading access door – either side
20. chemical resistant epoxy finish
21. probe port for air switch
22. 4 way rear exhaust grille
23. illuminated "on" circuit breaker
24. filter change indicator light
25. slide-in filter tracks
26. photohelic gauge advancement
27. auto-roll advance light
28. left or right side filter access door

AMARB302ND



Air Mixing Chamber measures 19"x23"x12"



Auto-roll automatically indexes as particle build-up increases airflow pressure

Self indexing automatic roll filter. The auto-roll section is comprised of a 200 yd. roll of polyester filtration material. The roll automatically advances when the pre-set pressure gauge has reached its set point due to air restriction from contaminant build-up on the surface of the media.

Timer box for auto-roll (Replaces 26 above)



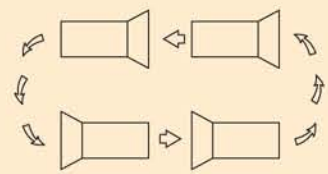
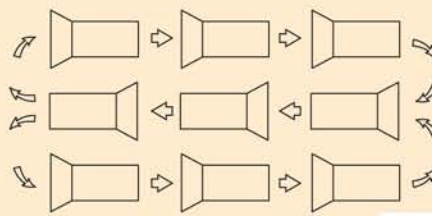
A new microprocessor panel is available to control the filter indexing function of the auto-roll. Controlled by a precise electronic timer, media advancement cycles are user adjustable, while colored LED's identify the function and status of this user-friendly automatic controller.

The baffle box attachment reduces the sound of the exhausted air. A four position rear exhaust grille allows for multi-directional airflow adjustment through 390 return air louver grilles. High density sound proofing material in the motor housing deadens noise levels. Surface mounted louvers positioned on four sides diffuse and further re-circulates the clean filtered air.

When the auto-roll is specified a special air switch installed to closely monitor the

build-up of contaminants on the face of the media. The switch monitors pressure so when the resistance reaches a pre-selected point, the roll is automatically advanced until the pressure is decreased to another pre-selected point. This function is totally performed automatically, however, there is a manual advance switch built in as well as a media advance LED.

Unit circulation configuration for Fleet and Industrial operations. This applies for AirMATION or AirMATION Auto-Rolls or any combination of both



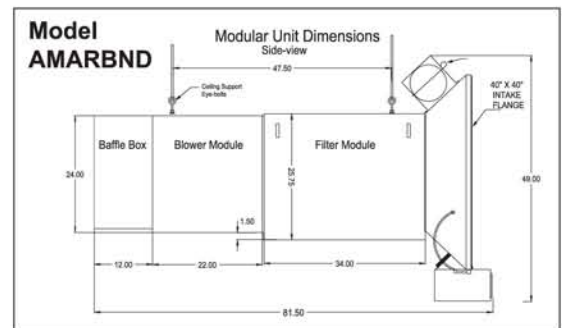
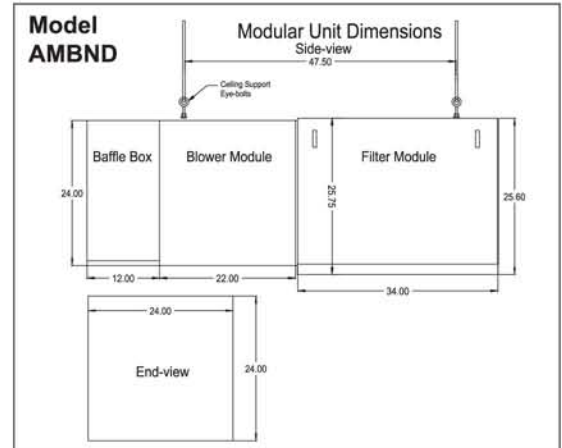
AirMATION SPECIFICATIONS

Model	AMB & AMARB
Fan Capacity (0" static)	Mfg rated @ 3000 CFM (M3H 5070)
Dimensions (ins):	
AMB	(H) 24" x (W) 24" x (D) 66"
AMARB	(H) 49" x (W) 45" x (D) 79.5"
	Includes 12" (D) - Baffle Box
Motor HP	1 Hp 1 speed
Voltage – Units*	115 or 208/230V 60 Hz (Std)
Voltage – Automatic Activation	24V
Amps	14 (115V), 7.5 (220V)
Weight lbs (Kg)	AMB 250 (114), AMARB 350 (159)
Clearance Required	AMB 30", AMARB 60"

*Can be modified for overseas applications

STANDARD BIOLOGIC FILTER PACKAGE

Auto-Roll Media	200 yards, synthetic polyester
First Stage Filter (pre-filter)	24" x 24" x 4" pleat 30% MERV 8
Second Stage (final particulate)	98% pleated DOP V-Bank 24" x 24" x 12" MERV 16
Third Stage (gas phase)	24" x 24" x 12" V-Bank carbon cell 26# 50/50 Blend of Carbon & Potassium Permanganate



AirMATION DC Compact Design

AirMATION AMB-302DC is designed with all the same precision and engineering attention to detail as the original AirMATION. However, the AirMATION DC displays a smaller footprint, but has the same filtering capabilities required for today's busy Fire, EMS and Fleet Maintenance facilities. Units can be individually activated by wall switch.

The DC's compact design and versatility allows it to be positioned to operate in either a vertical or horizontal position, another industry first. Requiring no building modifications or time consuming maintenance procedures the DC can be activated using the same proven and effective low voltage Time Control Maintenance Monitor (TCMM) that is considered the standard of the industry or the economical TCMM-B. When it comes to vehicle exhaust capture systems the AirMATION line has the right products to capture your imagination, and save your eyes, nose and lungs.

Vertical design with 4-sided top exhaust



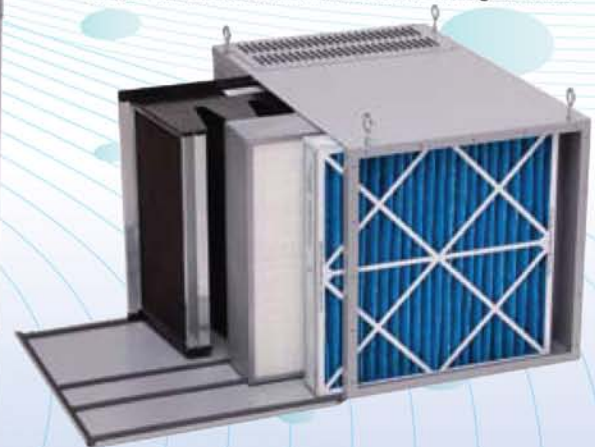
Vertical mount with slide-in filter mounting channels



Horizontal mount with 4 sided rear exhaust louvers

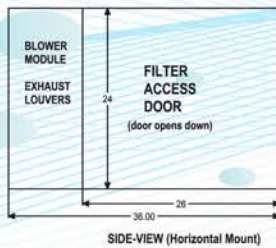
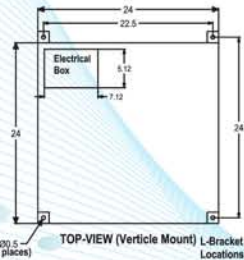
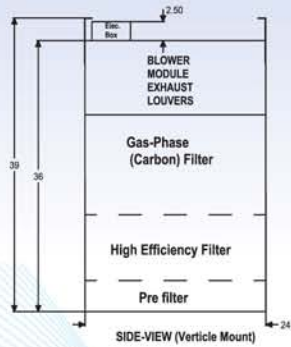


Horizontal mount with slide in filter mounting channels



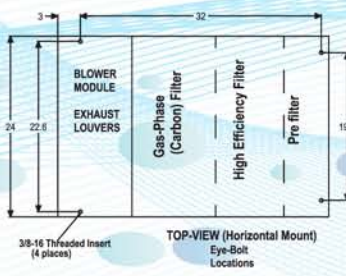


Installation using two vertical flow AirMATION DCs



Filtration Unit

- Unit measures 24" (H) x 24" (W) by 36" (L).
- Sturdy 16 gauge sheet metal construction finished inside and out with baked-on epoxy paint
- Electrical Requirements: 230VAC@50/60 Hz, Single Phase.
- Unit weight 190 lbs. with filters.
- Blower has a permanently lubricated ball bearing ¾ HP Motor rated @ 1650 rpm and is equipped with dynamically balanced backward curved aluminum or composite blades.
- Blower and all electrical parts and monitoring circuits contained in an easily removable module
- 4 Way Clean Air Return
- Unit Mounts Either Horizontally or Vertically.
- Individual filter compartments equipped with tracks to facilitate changing filters without disturbing others and insuring filters stay in place during operation
- Single door equipped with gaskets and captive hardware to secure and seal the filter compartment
- Modular Blower construction



Complete product details and specifications are available online at www.airmation.com

AirMATION BB (BIG BLU)

High volume filtration with multiple capture configuration

The AirMATION AMB-402BB is a multi-stage progressive filtration system, designed to virtually eliminate toxic exhaust airborne particulates, contamination and gaseous pollutants from Fire, EMS, Fleet Maintenance, Transfer Stations and large area facilities, with the exception that the AirMATION is able to reduce CO levels to within regulatory requirements. The AirMATION Big Blu is powered by a single direct drive blower, Mfg. rated at 4200 CFM which quickly draws the contaminated air through the various filtering mediums and discharges clean filtered air. Big Blu is unique in many aspects in both its high capacity performance and the ability to remotely position the intake filter modules. A single fan housing attaches to 2 independent filter modules, that can be positioned in various configurations. This design feature allows for optimum contaminant capture through placement of the filter modules. Either bolted together or angled and attached to the custom intake plenum the enhanced intake area offers a wide capture area that can be further enhanced by the addition of self activated auto-rolls.

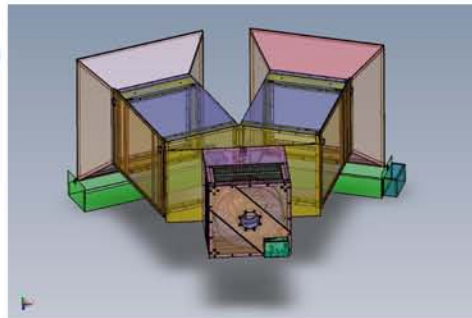


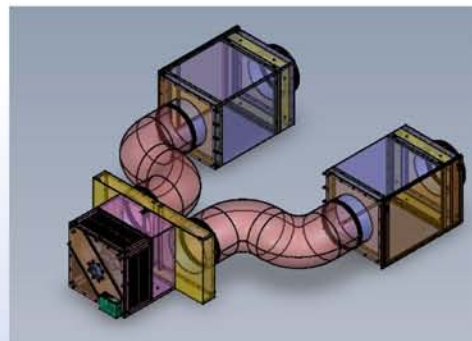
Illustration of BB unit with Auto-rolls



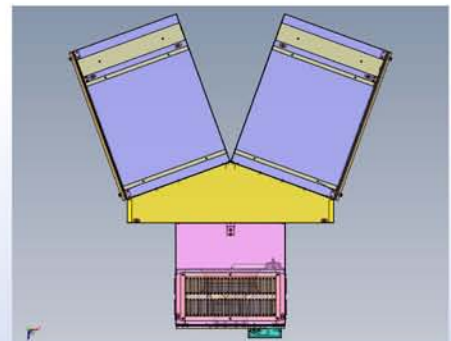
AirMATION BB units in large garage setting



Overhead shot of AirMATION BB with Auto-rolls



AirMATION BB with remote filter modules



Top view of AirMATION with std. intake

AirMATION Timer Control System (TCMM)

Low-voltage user safe controls



TCMM Enclosure 8"x10"

AirMATION Timer Control System (TCMM)

The TCMM Timer Control System, is designed to control the operation of any AirMATION model. By utilizing a safe 24V (AC/DC) low voltage circuit the TCMM provides numerous standard and customized features to satisfy your specific application.

The TCMM is housed in a NEMA 4 enclosure that complies with UL 508 & CSA specification, available with optional keyed lock.

The timer is easily adjusted to monitor the AirMATION's run time. Set in 3 minute increments (3 to 90) minutes the timer is factory set to 21 minutes.

Timer bypass switches allow manual operation of any number of AirMATION units. This removes the individual unit from the pre-timed controller, providing 24/7 coverage.

System Start allows for manual activation of all AirMATION units for a pre-timed cycle.

System Reset, allows for bay doors to remain open without having the AirMATION units operating. By activating the external reset button, it thereby resets the pre-timer cycle allowing the system to activate for a fire or EMS call.

Power sequencing options are available to help reduce facility power surges during start-up of multiple AirMATION units.

The TCMM can accept up to 16 individual units allowing for multiple hookups through one control box or utilize the added capacity for future system expansion.

The TCMM is designed to accept facility emergency shut-down inputs for fire alarm circuits through at least 8 different types of activation circuits in three separate zones.

TCMM Activation Sources-Optional Equipment

- Audible (tone) alarm circuits
- Magnetic Door relays
- Industrial gas detectors
- Electric eye systems
- Remote initiate push buttons
- Auto-eject (automatic power disconnect systems)
- 800 MHz alert systems
- Vehicle radio or remote control systems
- Custom interfaces



TCMMb Enclosure 4"x6"

The TCMMb is a basic design version of our TCMM, but with fewer features. Housed in a compact UL 508, 4" X 6" X 3" deep NEMA 3R, 4,13 14, enclosure, it too is a low voltage (24V) controller. Capable of activating 6 AirMATION filtration units, it utilizes the same 16 position dial control timer, "check filter" LED with view port and power off/on switch. Multiple activation sources like the TCMM and external reset make the TCMMb a capable activation module when only the basic control functions are required.

MICROCON® CD

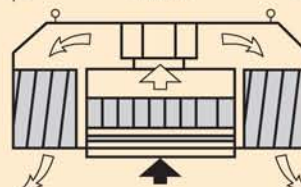
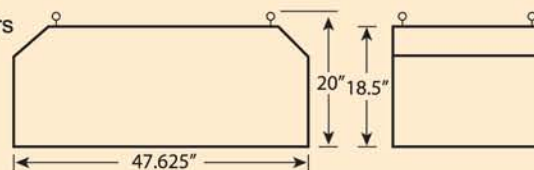
The MICROCON® CD is a ceiling mounted air filtration system specifically designed for the removal of both airborne pollutants and gaseous contaminants from indoor environments. Placed in a standard 2' x 4' T-bar ceiling channel, air is drawn through the center grille section, containing a pre-filter, and final filter of 99.97% efficiency on sub-micron particles before being exhausted through two carbon filter cells. Clean air, is reintroduced to the area free of particulate, gaseous odors and VOC's.



UV Lamps (optional)

Applications...

- Dispatch Areas
- Communications Centers
- Offices/Hallways
- Locker Rooms
- Smoking Areas
- Training Centers
- Bunk Rooms
- Living Areas



Complete product details and specifications are available online at www.airmation.com

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