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*Replaces source capture exhaust systems - allowing hands free exhaust and VOC capture.*

Industrial Strength Ambient Air Cleaners

**BSE-AIRPRO-FIRE** **Single Phase**



**Specifications (3/4HP)**

Dimensions	24" W x 26" H x 67" L
Weight	240 lbs
Power	115V/1/60
Amps	10.2
Wiring	3 Prong With 10 Feet of Cord
CFM - Maximum	2500
Motor	3/4 HP Direct Drive w/ Thermal Overload
Cabinet	16 Gauge Steel
Finish	Blue Powder Coat
Speed Control	Low and High Toggle Switch
Air Flow	Straight Through
Decibals	65 dBA at 5'
Warranty	3 Years, Excluding Filters

**Part # Filtration**

BSE-AIRPRO-FIRE	(1) 24 x 24 x 4, Pleated Pre Filter (1) 24 x 24 x 22, 65% Bag Filter (3) Gas phase filters
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**Part # Options**

BSE-MAG	Magnehelic Pressure Gauge 0-2" W.C.
BSE-WALLKIT	(2) Wall Mounting Brackets
BSE-CEILINGKIT	Hanging Kit (chain, eye bolts, and snap links)
BSE-ION	Needlepoint Bipolar Ionization*



**APPLICATIONS:** Provides efficient removal of irritating vehicle exhaust fumes, dust and smells.

**METHOD OF OPERATION:** Dirty air enters one side of the collector and is trapped in the filters and clean air is exhausted.

**INSTALLATION:** Suspend from the ceiling with chains/threaded rod or hang on the wall with brackets.

**KEY BENEFITS**

- Avoid health and safety hazards that cause respiratory ailments.
- Reduce make-up air requirements by cleaning and re-circulating air versus exhausting outside.
- Reduce housekeeping by filtration with airborne particles that settle on equipment.
- Lower in cost for the amount of cfm.
- Assists meeting OSHA standards (based upon filtration and design considerations).

**SIZING EXAMPLE:** A fire station needs efficient removal of irritating vehicle exhaust fumes. The vehicles are stored in a space that is 80' x 100' x 15' tall = 120,000 cubic feet.

120,000 x "air changes per hour needed." Use 6 for light fumes/smoke, 8 for moderate, and 10 for heavy.

120,000 x 8 = 960,000. 960,000 divided by 60 minutes per hour = 16,000 cfm required for all the air in the station to cycle through the filters eight times per hour. The machine rated for 2,500 cfm, so 16,000 divided by 2,500 = 6.4.

For this application we recommend 7 units. Alternatively A-machine cfm could be used. 16,000 divided by 3000 = 5.3 units. 6 units could be used.



## IONIZATION (NPBI)

BSE's ambient air cleaners with ionization are designed for use anywhere that fine airborne contaminants, odors or pathogens are a concern. The multiple stages of filters in our units provide "active" filtration of the dirty air passing through them, while the ionizer projects ions via the exhaust air to provide "passive" air filtration outside of the unit.

NPBI – The patented Needlepoint Bipolar Ionization (NPBI) technology utilized in our units uses an electronic charge to create a plasma field filled with a high concentration of + and –ions. As these ions travel with the air stream they attach to particles, pathogens and gases. The ions help to agglomerate sub-micron particles. This makes them filterable, kill pathogens by robbing them of life-sustaining hydrogen, and breaks down harmful VOCs into harmless compounds like oxygen, carbon dioxide, nitrogen, and water vapor. This process maximizes the overall effectiveness of the units to safely clean the air inside your building.

\*only available with single phase unit

## FILTERS

A 4 pleated pre-filter is provided. These are used to economically capture larger particles, extending the life of the second stage multi-pocket bag filter.

Bag Filters – These are high quality, micro-glass, multi-pocket, bag filters which handle the largest share of the particulate filtration process. MERV 11 is standard, but MERV 15 is an option.

Gas Phase – Installed after the above bag filters are gas phase filters. Three two inch filters are included with the unit. These are a 50/50 blend of carbon/potassium permanganate.

All filters are disposable and easy to access within the unit, allowing for quick and simple maintenance.