



**Industrial Strength Ambient Air Cleaners**

IAP - Air Products



**Specifications**

Dimensions	24" W x 24" H x 72" L
Weight	180 lbs
Power	115V/1/60
Amps	10.2
Wiring	3 Prong With 10 Feet of Cord
CFM - Maximum	3000
Motor	3/4 HP Direct Drive
Cabinet	16 Gauge Steel
Finish	Blue Powder Coat
Speed Control	Low and High Toggle Switch
Air Flow	T-Flow Pattern
Decibals	68 dBA at 5'
Warranty	3 Years, Excluding Filters

Part #	Filtration
A-3000-3/4HP-1P	(2) 24 x 24 x 4, Pleated Pre Filter (2) 24 x 24 x 22, 65% Bag Filter

Part #	Options
A-MAG	Magnehelic Pressure Gauge 0-2" W.C.
A-WMK	(2) Wall Mounting Brackets
A-CMK	Hanging Kit (chain, eye bolts, and snap links)
A-NPBI-FAC	Needlepoint Bipolar Ionization

**Dealer Information / Contact:**



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**APPLICATIONS:** Provides efficient removal of irritating contaminants such as smoke, chemical fumes, mist, or dust.

**METHOD OF OPERATION:** Dirty air enters both sides of the collector and is trapped in the filters and clean air is exhausted in a T-Air flow pattern.

**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 company performs orbital sanding in their production process. Several employees sand all day long. The airborne dust irritates employees in the room, along with creating a housekeeping issue. The room is 60' x 40' x 15' tall = 36,000 cubic feet.

36,000 x "air changes per hour needed." Use 6 for light dust/fumes/smoke, 8 for moderate, and 10 for heavy. 36,000 x 10 (heavy) = 360,000.

360,000 divided by 60 minutes per hour = 6,000 cfm required for all the air in the room to cycle through the filters 10 times an hour. The A-3000-3/4HP-1P is rated for 3,000 cfm, so 6,000 divided by 3,000 = 2 units required.

For this application we would recommend (2) A-3000-3/4HP-1P staggered in the room. To create a more circular airflow pattern in the room, (4) units could be used.



## IONIZATION (NPBI)

IAP'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.

## FILTERS

**Pre-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 filters.

**Bag Filters** - These are high quality, micro-glass, multi-pocket, bag filters which handle the largest share of the particulate filtration process. Depending on the options, they can be MERV 11 or MERV 15.

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

