



AtmosAir  
Air Purification  
Systems

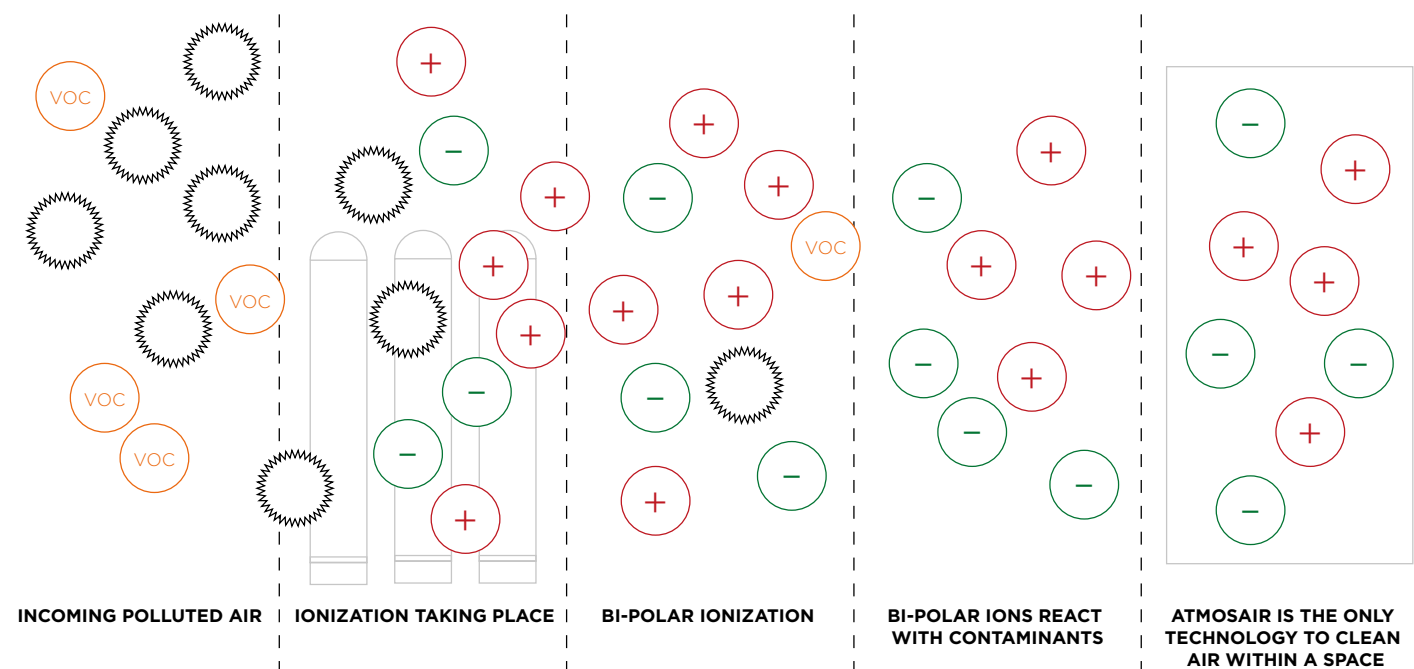


# AtmosAir

## Air Purification Systems

AtmosAir compliments Tri-Dim's filters by actively working 'in the space' where we live and play to improve filter efficiencies while reducing energy use and emissions in the process.

### HOW ATMOSAIR WORKS



### ATMOSAIR BENEFITS

#### Particle Decay

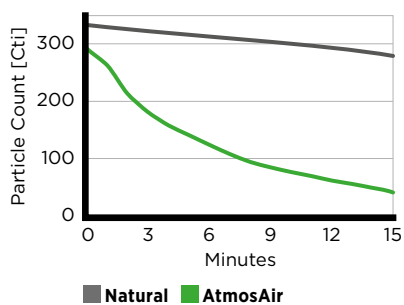
Particles are taken out of the breathing range so that harmful particulates and allergens are not inhaled. Bi-polar ionization (BPI) agglomerates particles so they become larger in size and are picked up by our filters or fall to the floor.

#### VOC and Odors Reduction

Chemical off-gasses and offensive odors are eliminated by the interaction with ionized air, eliminating the use of masking agents that add to indoor pollution.

#### Dust Particle Decay

Naturally vs. AtmosAir



#### AtmosAir TVOC Testing

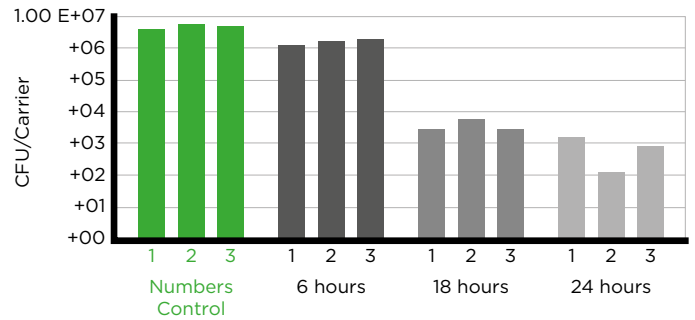
Test Site	VOC Reduction
Kilroy Realty	79%
Hyatt Hotel	95%
Staples Center	90%
Santa Ana Schools	97%
USC	97%
Rivers Casino	90%

# AtmosAir

## Further Benefits

### Microbial & Pathogen Reduction

Airborne molds, bacteria and viruses are reduced by particle decay and by preventing their reproduction and growth. The “typical basement odor” will be eliminated with BPI delivered by an air system or portable units outside of the centrally-conditioned spaces.



### Static Reduction

Static electricity is neutralized by BPI.

### Energy Conservation

With AtmosAir’s engineered air purification approach, ASHRAE’s 62.1 Guidelines allow you to reduce the volume of outside air while greatly improving the indoor air quality. AtmosAir has been highly successful in applying such energy reductions in many projects. Capital expenses on new installations are reduced through downsizing of HVAC equipment and infrastructure.

### Example—energy and outside air Reduction

Staples Center	AtmosAir Off	AtmosAir On	Reduction
<b>Energy used (kWh)</b>	583.59	456.56	21%
<b>Outside air (CFM)</b> Center total: 689,050	339,640	172,465	51%



Display local outdoor and indoor air quality on phone, app or monitor

### Air Quality Monitoring

The AtmosAir sensor provides real-time air quality measurements to validate the operation of the system.

# AtmosAir

## Technical Data

### PRODUCTS AND SPECIFICATIONS

AtmosAir Purification System	Model(s)	In Duct, AHU, Standalone	CFM/Sq.Ft	Application
<b>Matterhorn 1000 Series</b>	1000, 1002	In Duct, AHU, RTU, ERV	Up to 5,000	Small HVAC supply duct
<b>500 Series</b>	500 EC, 500 FC, 508 FC	In Duct, AHU, RTU, ERV	Up to 15,000	Large HVAC duct/AHU/RTU
<b>Rainier</b>	R1, R2	Portable	Up to 1,000	Portable unit
<b>FC100/FC400</b>	FC100, FC400	FCU PTAC heat pump	Up to 1,000	Small HVAC FCU/Heat Pump



Matterhorn 1000 Series



500 Series



Rainier



FC100/FC400

Tri-Dim Filter Corporation is committed to continual product development - all descriptions, specifications and performance data are subject to change without notice. Tri-Dim products are manufactured to exacting criteria - there can be a  $\pm 5\%$  variance in filter performance.

#### LOCAL REPRESENTATIVE