
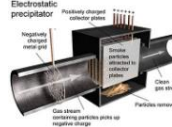






Condensed Fact Sheet

ITEMS						
DESCRIPTION	Traditional Filtration	Electrostatic Percipitators	Polar/Bipolar Ionization	Ultra Violet Light	Hydroxyl Radical Generation	Ozone Generation
HOW IT WORKS	<ul style="list-style-type: none"> • A mesh or weave of various opening sizes sifts the air passing through the filter and catching airborne particulate • Can be enhanced with Tackified media or charged media 	<ul style="list-style-type: none"> • Positive plates charge particles • Negative plates attract positive particles 	<ul style="list-style-type: none"> • Positive and/or negative discharge points create charged molecules • Charged molecules cause chemical reactions and collide with one another 	<ul style="list-style-type: none"> • Specialized bulbs generate specific spectrum light • This light is damaging to cells, including airborne bio-contaminants 	<ul style="list-style-type: none"> • Specialized bulbs and specific coatings create Hydroxyl gas • Some systems forego the coatings in favor of stronger bulbs • Hydroxal gas oxidizes the air it interacts with 	<ul style="list-style-type: none"> • Controlled electrical discharge breaks down oxygen in the atmosphere • Ozone gas is a strong oxidizer that interacts with the air around it.
GOOD POINTS	<ul style="list-style-type: none"> • Simple to understand • Easy to modify the system to suit the space • High degree of provable efficacy • Portable additive systems are readily available 	<ul style="list-style-type: none"> • Very low pass through impedence • Scalable to large or small spaces • High degree of provable efficacy 	<ul style="list-style-type: none"> • Simple installation process • May be safe for occupied spaces • Low cost of operation 	<ul style="list-style-type: none"> • Multiple flexible installation options • Low health hazards when installed correctly • Proven kill claims 	<ul style="list-style-type: none"> • Multiple plug and play options for room based solutions • Proven kill claims • Effects spread widely 	<ul style="list-style-type: none"> • Proven kill claims • Strong odor indicator that a space is “clean” • Effects spread widely
ISSUES	<ul style="list-style-type: none"> • Upgrading existing systems can be expensive • Plug and play systems can be expensive and bulky 	<ul style="list-style-type: none"> • Larger systems can have high power demands • Collection elements need regular cleaning to remain effective 	<ul style="list-style-type: none"> • There is a lack of data on the long term health effects from exposure • Kill claims are still being evaluated • May generate ozone as a byproduct 	<ul style="list-style-type: none"> • Can cause damage to eyesight if the bulbs are looked at directly • In order to ensure effective kill of bio-contaminants, close contact is required • Many publicly marketed systems may not be strong enough for the spaces they are employed in 	<ul style="list-style-type: none"> • There is lack of data on the long term health effects from exposure • Produces some amount of ozone as a byproduct • Intermediate stage byproducts can be hazardous 	<ul style="list-style-type: none"> • Ozone is a known health hazard • Ozone breaks down natural rubber and latex
EXAMPLES	<ul style="list-style-type: none"> • Sanders filters: Containment Media 150 • Honeywell: Home Filter systems • True blue: Basic Blue 	<ul style="list-style-type: none"> • Cosatron: Model LC1750 	<ul style="list-style-type: none"> • Global Plasma Systems: GPS-FC-3-BAS • Plasma Air: PlasmaPURE 600 Series • Phenomenal Aire: R6.0 - R Series 6.0 Cold Plasma Generator 	<ul style="list-style-type: none"> • International Ozone Systems: Interceptor RIUV-A18 • Bioshield: 50-BUVAS-E 	<ul style="list-style-type: none"> • Odorox: Oasis+ • International Ozone Systems: Titan 1000 	<ul style="list-style-type: none"> • International Ozone Systems: Total Zone TZ-1 • Odor Free: Autel 1000