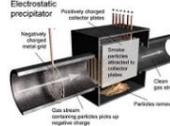


## Condensed Fact Sheet

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