
 Bi-Polar Ionisation	 Bi-Polar Ionization	HEPA Filtration	UV Light	Photo- Catalytic Oxidation (PCO)	"Needlepoint" Ionization	Carbon Filters	Room Ionizers and Electronic Air Cleaners
Active or Passive Technology	Active	Active	Passive	Passive	Passive	Passive	Passive	Passive
Cost	Affordable	Expensive	Affordable	Expensive	Reasonable	Cheap	Reasonable	Affordable
Warranty	2 Years	1 Year	Varies	Varies	Varies	1 Year	Varies	Varies
Technology	Glass DBD Tube	Multicore Composite Tube	Filter	Glass tube UV	Ozone Tubes with Titanium dioxide	Tiny "needles" for Bipolar production	Activated Carbon	Air sucked through filters
Built-In Airflow switch (standard)	YES	NO	N/A	Unknown	Unknown	NO	N/A	Unknown
Where manufactured	China	China (tubes supposedly made in USA)	Misc	Generally China	China, USA	Generally China or USA	Misc	Misc
Number of Models offered	30	7	Varies	Varies	Varies	Varies	Varies	Varies
Custom Design Available if needed	YES	NO	Unknown	Yes	Unknown	Unknown	Unknown	Unknown
Volume of Bipolar Ions Produced (Scale of 1 to 10)	10	7	N/A	N/A	N/A	8	N/A	N/A
Published Tube Life	17,000 hours	17,000 hours	N/A	4,000 - 10,000 hours	Generally 1 year	N/A	N/A	N/A
Deactivates Contaminants / Pathogens in the room	YES	YES	NO	No	YES	NO	NO	NO
Reduces Odours	YES	YES	NO	NO	YES	NO	YES	NO
Reduces VOC's	YES	YES	NO	NO	NO	YES	YES	NO
Reduces Particles	YES	YES	YES	NO	NO	NO	YES	YES
Effective on Viruses, Bacteria and Germs	YES	YES	NO	YES	YES	YES	NO	NO
Produces Ozone as measured at output vent	NO	NO	NO	YES	YES	NO	NO	YES
Low Pressure Drop	YES	YES	NO	YES	YES	YES	NO	YES
Maintenance	Yearly Tube Cleaning	Yearly Tube Cleaning	Quarterly	Yearly Tube Change + Frequent cleaning	Yearly	6 months - 2 years needle replacement	Monthly	Annually
Re-engineering of HVAC system needed	No	No	Yes	No	No	No	Yes	Yes
Reduces Energy Costs	YES	YES	NO	YES	NO	NO	NO	NO
Produces Chemicals or Bi-Products	NO	NO	NO	NO	YES - OZONE + TiO2	NO	NO	NO
Tested Contaminant Reductions in Occupied Space	YES	YES	NO	NO	NO	NO	NO	NO
Published and Peer Reviewed Research	YES	YES	YES	YES	YES	YES	YES	YES
"Smart" System Available (Integrated with sensors & monitors)	YES	YES	NO	NO	NO	NO	NO	NO