

Color Chart:	No Issues	Caution Potential Negative effects	Probable Negative Effects																	
Technology Characteristics	CIMR by Hi-Tech	CIMR with RFI (Radio Frequency Ionization) True Bi-Polar Ionization.	HEPA Filters	HEPA Filter with UV	HEPA Filter with Carbon, UVC/UV, and Ionization	UV Light	(PCO) Photo Catalyst Oxidation	Needle Point Ionization	Bi-Polar Ionization	Electrostatic Air Filter	Ozone	Low Ozone	No Ozone	Hydro - peroxides	Vaporized H2O2	Dry H2O2 with a water molecular	Electrostatic Sprayer			
Disinfects Continuously 25/7/365 Throughout Treated Space both on the seen and unseen locations in the room.	YES	YES	Captures up to 3 microns only at the Filter (not small enough to capture most viruses)	Limited to what enters the filter and effective only at the filter	Limited to what enters the filter and only at the filter	Limited as to what passes by the light and only with the right amount of dwell time	Produces low ozone or high ozone. (called friendly oxidizers)	Limited to the pathogens traveling past the electrical field	Limited to the pathogens traveling past the electrical field	Limited to the pathogens traveling past the electrical field	YES	Limited because ozone is not strong enough	Limited (working with Ho and H2. (working with UV/UVC light capability only)	YES (according to literature, patent, and trademark terms their active kill mechanisms is ozone along with other oxidizers)	NO	YES	NO			
Location of the killing mechanism e.g point of the device or full treated space.	All Treated Space	All Treated Space	Location of Device	Location of Device	Location of Device	Location of Device	Location of Device	Location of Device	Location of Device	Location of Device	Space Treated	Space Treated	Space Treated	Space Treated	Space Treated	Space Treated	Space Treated			
Produces non-encapsulated hydrogen peroxide gas molecules to disinfect viruses, bacteria, spores, mold and fungi and other pathogens	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO			
Limits production to .02 ppm 1/50 of OSHA limits	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO (attempt to limit ozone production to .02-.05 ppm)	NO	NO	NO			
EPA and OSHA Compliant	YES	YES	YES	YES	Some (in not states)	Depending on UV cell	in most states	YES	YES	YES	limited	YES in most states	YES	YES as long as units are installed in the duct system	YES	na	YES			
Produces pure dry hydrogen peroxide gas (not an aqueous vapor)	YES	YES	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO			
Prevents possible oxidative damage to equipment	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO			
Magnetically attracted to pathogens	YES	YES	NO	NO	NO	NO	NO (uses ozone to randomly attack pathogens)	YES	YES	NO (electrostatic charge on particles as they pass by filter)	NO	NO	NO	NO	NO	NO	NO			
Pathogen Scavenging Technology (+/- charged to seek to destroy pathogens)	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO (electrostatic charge on particles)	NO	NO	NO	NO	NO	NO	NO			
Produces immediate mechanical kill by penetrating pathogen protein	YES	YES	NO	NO	YES (limited to what enters the filter)	alters DNA of Cell with the right amount of Radiation and dwell time	YES (ozone reactive)	NO (works by weighing down pathogens and sticking them to something)	NO (works by weighing down the pathogens and sticking them to something)	NO (electrostatic charge on particles)	YES	limited because ozone is not strong enough	only what passes with inches of the light or cell	YES	YES	limited (has to have higher levels of H2O2 to work) By product is low level ozone	YES			
Disinfects all room air and surfaces. Also disinfects air ducts, filters, coils etc.	YES	YES	NO	NO	NO	NO	YES	NO (further contaminants ductwork sticking particles to the wall lining of the ductwork)	NO (further contaminants ductwork sticking particles to the wall lining of the ductwork)	NO (electrostatic charge on particles)	YES	limited because ozone is not strong enough	NO	YES (through ozone)	YES	NO	YES			
Penetrates and oxidizes cell biofilm	YES	YES	NO	NO	NO	NO	YES	NO	NO	NO (electrostatic charge on particles)	limited	limited	NO	limited	YES	NO	YES			
Effective against both gram positive and gram negative pathogens	YES	YES	YES	Limited to what enters the filter	Limited to what enters the filter	YES	YES	YES	YES	YES (electrostatic charge on particles)	YES	limited	only what passes with inches of the light or cell	YES	YES	YES	YES			
Airborne deployment	YES	YES	NO	NO	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO			
Requires dwell time	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES			
Leaves Potentially Harmful residual by-products	NO	NO	NO	may leave ozone by product	may leave ozone	YES (ozone and free radicals)	YES (ozone and free radicals)	YES	YES	NO	YES	YES	NO	YES	YES	YES	YES			
Requires room isolation	NO	NO	NO	NO	NO	YES	YES for high level ozone kills (called the away mode on machine)	NO	NO	NO	YES	NO (unless it builds up)	NO	NO/YES on certain models	YES	NO	YES			
Disinfect HVAC and filter systems	YES	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES	limited	NO	YES	Limited	higher levels of H2O2 to work) By product is low level ozone	NO (only if sprayed)			

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Maintains and Prevents the establishment of new germs, fungi, and bacteria	YES	YES	NO	NO	NO	YES (limited)	YES	NO	NO	NO	YES	limited	very limited	YES	NO	limited (has to have higher levels of H2o2 to work) By product is low level ozone	YES			
H2O2 concentration levels are self-regulating	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO			
Proven to lower overall Hospital Acquired Infection (HAI) related risks	YES	YES	YES	YES	YES	YES (limited)	YES	limited to the pathogens traveling pass the electrical field	limited to the pathogens traveling pass the electrical field	limited to the pathogens traveling pass the electrical field	limited	limited	limited	YES	YES	limited (has to have higher levels of H2o2 to work) By product is low level ozone	YES			
Decreases room turnaround time	YES	YES	NO	YES	YES	YES (limited)	NO (can cause oxidative on equipment)	NO	NO	NO	NO	NO	NO	NO	YES	unknown	Limited			
Portable, mountable and permanly duct work installed units	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO			
Requires preventative maintenance	YES Cell every 3 years	YES Cell every 3 years	YES Replace Prefilter every 3 months and HEPA 1 every year	YES Replace Prefilter every 3 months and HEPA 1 every year and UV once every Year	YES Replace Prefilter every 3 months and HEPA 1 every year and UV once every Year	YES (cells replaced every 9 to 12 months)	YES (replacement cells every 12 months)	YES (limited) (must keep needle points clean or replace)	YES (limited) (must keep needle points clean or replace)	YES Replace filter and electros	YES	YES change lights or cells out every year	YES change lights every yearr	YES change out lights 1 year some home units 3 years	continual spraying	YES change out black light	continious spraying			
3 year limited warranty	YES	YES	NO	NO	NO	NO	90 days to 1 years depending on brand	1 year	1 year	NO (electrostatic charge on particles)	1 to 3 years	90 days to 1 year	90 days to 1 year	90 days to 1 year	NO warranty	unknown	NO warranty			
Disinfects sub-micron air born particulates, odors, mold, mildew	YES	YES	YES only what goes into filter	YES only what goes into filter	YES only what goes into filter	limited as to what passes by with the right amount of dwell time	YES (if ozone levels are high enough)	limited to the pathogens traveling pass the electrical field	limited to the pathogens traveling pass the electrical field	limited to the pathogens traveling pass the electrical field	limited	limited	limited	YES	YES	limited (has to have higher levels of H2o2 to work) By product is low level ozone	YES			
Produces harzards by-products	NO	NO	NO	YES Possible ozone	YES UV produces Ozone	UV produces Ozone	Ozone and other oxidative by products	ozone/low ozone	ozone/low ozone (They claim no ozone but official doucment refute what they claim.	YES ozone/low ozone	YES ozone and other oxidizers	YES	NO	YES Ozone	YES	YES	YES			
Produces ozone or low ozone	NO	NO	NO	YES Possible ozone	YES Possible ozone	YES Possible ozone	YES Possible ozone	ozone/low ozone	low ozone	YES ozone/low ozone	YES	YES	YES	YES	NO	YES	NO			
Automatic recycling process using ambient environment air	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO			
100% Green	YES	YES	Partially	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	unknown	YES			
Breaks the chain of infection in all 7 places.	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO			

Source : Hi-Tech Solutions Analysis