

# CHOOSING THE RIGHT TECHNOLOGY

Indoor air quality experts agree that **Active Air Purification** is the optimal way to combat COVID-19 and mitigate the spread of contaminated droplets found in the air and on hard surfaces.

The chart below is a quick comparison between Active and Passive air purification systems. As you can see systems using Hydroperoxide Ion technology provide the most comprehensive benefits, with a line-up of features and benefits that significantly outweigh other **Active Air Purification** systems.

IAQ Systems - Quick Guide Comparison									
FEATURES & BENEFITS	Active Air Purification					Passive Air Purification			
	REME Technology	Bi-Polar Ionization	Plasma Ionization	Needpoint Ionization	Photocatalytic Oxidation	UV	HEPA Filtration	Chemical Filter	Electronic Air Filter
Number of Air Purification Effects	6	2	2	1	3	1	1	1	1
Treats Viruses and Bacteria on Surfaces >99%	✓								
Treats Airborne Particulates at the Source >99%	✓	✓*	✓*		*				
Effective Against COVID-19 ( Lab Tested & Verified) >99.9%	✓	✓*	✓*		✓*	✓	*	*	
Actively Destroys Contaminants in the Occupied Space	✓	✓*	✓*		✓				
Reduces Odours > 80%	✓	✓	✓		✓*		*	✓	
Reduces Surface Mould >90%	✓	*	*		*				
Eliminates VOCs >99%	✓							✓	
Provides an Active Sneeze Shield of 3 Feet	✓								
Low Pressure Drop (Does Not Inhibit Air Flow)	✓	✓	✓	✓	✓*	✓*			✓*
Maintenance Requirements	Every Four Years	Every Two Years*	Every Two Years*	Yearly*	Yearly*	Yearly	Quarterly	Quarterly	Quarterly
Warranty (Typical)	7 Years	1-3 Years*	1-3 Years*	1 Year*	2 Years*	1 Year*	N/A	N/A	1 Year
Does Not Require Re-engineering of HVAC Systems	✓	✓	✓	✓	✓*	✓*	*		*
Reduces Energy Costs by Reducing Outdoor Air Exchange	✓	✓	✓		✓*	✓*			
Contaminants are not required to pass through the duct system to be treated or rendered in-active	✓	✓	✓	✓	*				
Does Not Produce Harmful Chemicals or By-products	✓	✓*	✓*	✓	*	✓*	✓	*	*
Does Not Produce Ozone	✓	✓*	✓*	✓*	**	**	✓	✓	*

\* Depends on application and manufacturer  
 \*\* UVV (Vacuum UV) UV-A and UV-B typically produce Ozone. Properly designed UVC typically does not produce Ozone

A Green box indicates a positive attribute while a Tan box indicates that it does not meet the requirement or is unlikely to meet the requirement

Disclaimer: This chart is for informational purposes only, accuracy of the information provided is subject to change. Not all products in the market have been studied in production of this document