AIRPHX versus MERV-13 Filtration

	AIRPHX	MERV-13 Filtration
Treats Air	Yes, including air that does not go through unit	Yes, but only air that goes through the duct work; ability to trap smaller, harmful pathogens unclear; larger pathogens are less likely to go through duct work due to weight; most virus droplets do not travel far enough to go through duct work
Treats Surfaces	Yes	No
Installation	Wall mounted in minutes; self-contained; does not need to be integrated with HVAC	Expensive/time consuming to mount in ductwork; need filters in every HVAC zone; need HVAC system able to handle MERV-13 filters
Up Front Cost	$0.025-$0.04/cubic foot (depending on unit deployed)	Unknown; depends in part on need to upgrade HVAC system
Maintenance; Operating Costs	Less than $450/yr for PA2400 (filters and plasma cell); < 1/10 of Up Front Cost; minimal energy use; no HVAC experience needed	Expensive MERV-13 filters require frequent replacements; increased energy costs; more wear and tear on HVAC system
Independent Real World Testing	Yes, 90+% reduction of airborne organisms and 95+% reduction of surface organisms	No independent test results found