

Comparison of SecureAire® PACT versus CosaTron Air Purification Systems



System Features	SecureAire PACT	CosaTron	Comments
Air pressure drop at 500 fpm	.008"	.006"	
Double walled ductwork required to create field strength	No	Yes	CosaTron will need major ductwork modifications to use in lined ducts or AHU
Power requirements	75 va	50 va	CosaTron offers 3 sizes of generators each with different components. PACT offers only (1) size for ease of spare parts requirements.
Particle Inhibitor / ION Cloud creation	No	Yes	Inhibits positive charge particles and creates positive ion cloud acting as a filter for positively charged particles only.
Uses Particle Acceleration and Collision Technology to control particles	Yes	No	CosaTron uses continuous direct current (DC) only. PACT uses a pulsed AC high voltage signal that alternates for <u>complete admittance and control of all particles.</u>
Ozone creation / Corona Discharge	No	No	CosaTron will create corona discharge if plastic spacers get dirty over time. Eventually unit will short circuit and shut down. If there are any burrs or frays in the DC grid wires, of the CosaTron, corona discharge will occur. The PACT system has no wires. The PACT system also has built in diagnostics that prevent the possibility of generating enough current to create ozone.
Complete Installation Hardware	Yes	Yes	
Installation Labor Savings	50%	100%	PACT takes approx. 50% less labor to install.
Lead time	2-5 weeks	4-6 weeks	CosaTron comes in custom sizes that must be custom fit to units.
TUV or UL Listed	Yes	Yes	CosaTron is UL listed. PACT is TUV listed. Also, PACT meets both class A&B FCC environments.
Improvement Function for Particle removal @ .5 micron size in 3 minutes	282	5.7	PACT is 49 times more effective than CosaTron in particles reduction in 3 minutes
Pre-conditioning of all particles entering the system	Yes	No	PACT preconditions all particles in the PCU section to optimize the effectiveness of the electric fields for particle control.
PACT (EU) Electronics Unit or CosaTron(Generators) self calibration and advanced diagnostics feature	Yes	No	CosaTron uses late 1950's technology and components in mfg of Generator. Many elec. components are no longer made. PACT used current surface mount boards with "watchdog" circuits to continually monitor and control its voltage/current outputs resulting in complete control of air units (AU's)

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Maintenance Cleaning Level	Low	High	PACT uses no continuous DC signals and therefore particles have less of a tendency to adhere to surfaces.

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