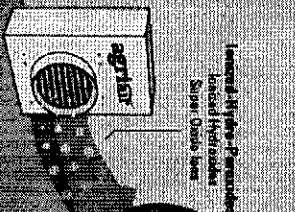


1 HHP RELEASE

2 ATTACHMENT

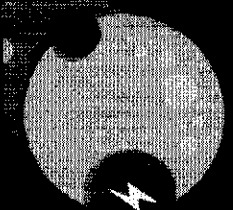
3 DEACTIVATION

4 EXTRACTION



1
RELEASE

GENERATED BY POWER 20 MICRONATION
ADVANCED HYDROXIDES
SUPER OXIDE IONS



ATTACHMENT
DEACTIVATION
EXTRACTION

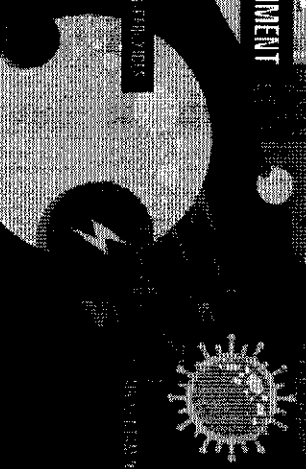
1
Generated oxidizers are created
& released into environment

Power by active 20 micronation Hydroxides
Super Oxide ions and H₂O₂ oxidizers are
produced at a high energy cell

agriair

2
ATTACHMENT

ATTACHMENT OF OXIDIZERS
MOLECULAR OXYGEN
H₂O₂ & VOLATILE

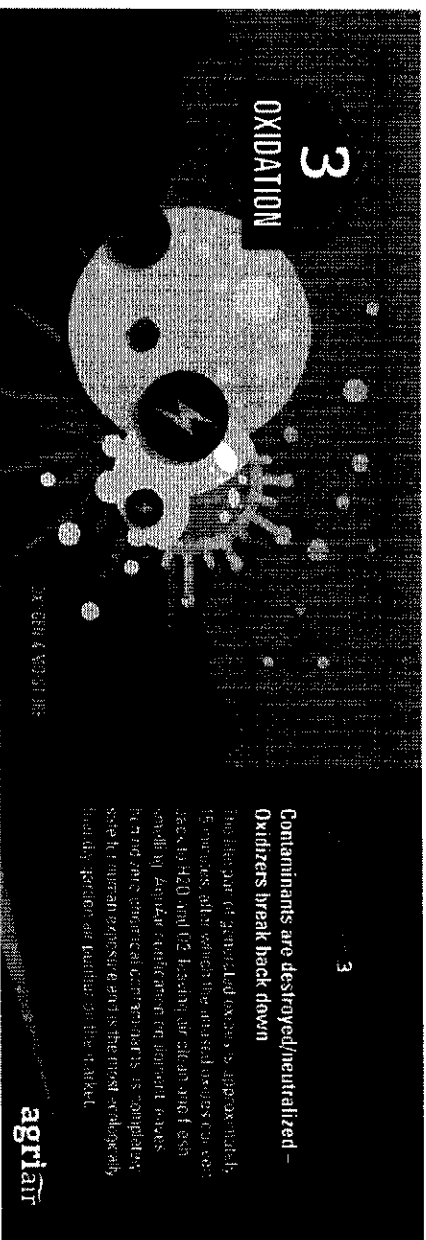


DEACTIVATION
EXTRACTION

Oxidizers proactively seek out and
attach to contaminants oxidizing them

Generators have a pro-oxidizing destroy microbes
by changing the molecular structure and cell
density from the inside, so a cell with more water
content is going to produce less protein and
bacteria

agriair



Advanced purifier technology

When dealing with medical and food-grade products, it is extremely important to maintain a sanitized production environment to prevent reduction, rejection or complete loss of your valuable crops.

Agriair® machines utilizes an oxidation process that take advantage of UV-C Germicidal lights and HEPA filtration to sanitize air and hard surfaces and remove or destroy even sub-micron sized contaminants such as pathogens, pollen, mold and mildew spores from your indoor grow or processing facility. This purification process also removes odors before they can be emitted to the outside, protecting you from regulation penalties and giving away your growing location.

Our line of equipment combines a number of technologies to produce the most efficient, safe and economical compliance solutions for commercial indoor cannabis growing operations.

Ionic Oxidization – Kills Odors and Contaminants

Agriair® purifiers utilize an ionic oxidation process to remove bio-contaminants and strong cannabis odors in commercial grow areas. This exclusive oxidation process utilizes dual wavelength-UV elements that are targeted onto a tri-metallic catalyst surface. This surface is coated with a proprietary TiO₂, Ag, Cu, and hydrophilic coating. UV energy (254nm) striking the target surface activates production of hydroxyl radicals, super oxide ions, and ionized hydro-peroxides (IHP) on the generator cell surface. The hydrophilic surface absorbs humidity from the air which is split into OH radicals in the advanced oxidation process.

The dual wavelength lamp also emits UV energy at 185 nm. The photon energy at this wavelength is sufficient to split oxygen molecules. These ozone molecules are then quickly reduced back to oxygen by the 254 nm UV energy that is also emitted from the UV element (another type of advanced oxidation reaction). The results from this reaction process also produce OH radicals, super-oxide ions and ionized hydro-peroxides (IHP) similar to the surface reactions discussed earlier.

As you can see, not only is the target surface active, but so is the air space between the target and the UV element. Ionic Oxidation not only treats the air passing over the cell with germicidal UV light, it also continues to treat the surrounding environment with additional ionized hydro-peroxides and super-oxides. This purification process is very effective at reducing both microbes and odors, something conventional UV systems cannot do.

These powerful oxidizers destroy microbes, pathogens and other volatile organic compounds by changing their molecular structure and rendering them harmless. The lifespan of generated oxides is about 15 minutes, after which the unused oxides convert back to H2O and O2 leaving and fresh smelling. This purification process is designed to continuously sanitize your grow area – 24/7.

HEPA Filtration

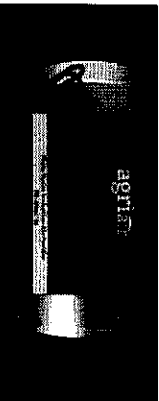
High-efficiency particulate air or HEPA is a type of air filter that has many applications including use in medical facilities, food processing and labs where sterility is essential . HEPA air machines are used to clean the air as well as create positive or negative air pressure containment areas in confined spaces.

Indoor grow environments require air purity equal to that in food processing and medical labs to pass the increasing number of tests and regulations being applied in states that have legalized cannabis. HEPA filters must satisfy standards of efficiency such as those set by the United States Department of Energy (DOE) and must remove 99.97% of all particles greater than 0.3 micrometers from the air passing through the filter. They, in fact, remove 99.99% of the contaminants that growers are most concerned about.

Today's cannabis users expect high quality and good taste so any hint of the foul taste of mold will launch a negative social media campaign that you don't want. HEPA filtration is an effective method for removing mold spores, pathogens and pollen from the air and preventing cross-pollination or contamination of your plants.

UV-C Germicidal Irradiation

UV germicidal irradiation is an air disinfection method that uses ultraviolet (UV) light at sufficiently short wavelengths to kill microorganisms and is an integral component of the air purifying Ionic Oxidation process. In recent years UVGI has found renewed application in medical air sanitation and sterile work facilities such as cannabis grow operations. UVGI is effective in destroying the nucleic acids in micro-organisms, disrupting their DNA and leaving them unable to perform vital cellular functions. Using UVGI in grow environments with circulating air systems creates a deadly effect on micro-organisms such as pathogens, viruses and other pesky invaders.



Agriair® PG-HVAC Air Purifiers

Air purification for HVAC systems with IO Technology

Request a Quote

Description Technical Specs
 Part Numbers / Quote Form Documents

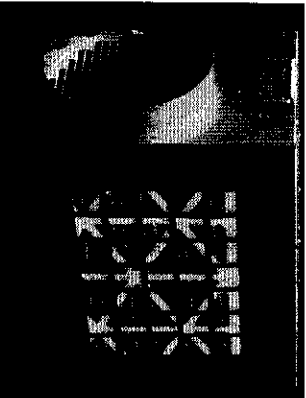
	Agriair® PG-HVAC-3	Agriair® PG-HVAC-16
Airflow	100 – 1000 CFM from HVAC system or external fan	100 – 1000 CFM from HVAC system or external fan
Power Requirements	115 VAC/60 Hz/2.7 amps available in 230VAC/50-60HZ/1.2 amps	115 VAC/60 Hz/3.0 amps available in 230VAC/50-60HZ/1.7 amps





Control	ON/OFF generator switch, hour meters, LED ON light	ON/OFF generator switch, hour meters, LED ON light
Ionic Oxidation Generators	optional 5", 9" or 14" IO Generator	optional combinations, your choice of (2) 9" or 14" IO Generators
Housing	aluminum powder coated housing with 14" inlet/outlet duct connection, 5' power cord	aluminum powder coated housing with 14" inlet/outlet duct connection, 5' power cord
Size/Weight	24" L x 14" W x 17.25" H; 16 lbs.	24" L x 14" W x 17.25" H; 16 lbs.







Agriair® 1000 Surface & Air Purifiers

Portable Air Purifiers with Ionic Oxidation Technology

Request a Quote

Description Technical Specs
 Part Numbers / Quote Form Documents

	Agriair® 1000	Agriair® 1000-3	Agri 100
Airflow	300 – 650 CFM, variable speed blower	300 – 650 CFM, variable speed blower	300 var blo
Power Requirements	115 VAC/60 Hz/2.7 amps *Note – available in 230VAC /50-60HZ /1.2 amps	115 VAC/60 Hz/3.0 amps *Note – available in 230VAC /50-60HZ /1.7 amps	115 Hz/ *Nc ava 230 60-

	ON/OFF	ON/OFF Power	ON
	Hour Meter	Switch	Swi
Recessed Control	Switch 0 –	(2) Generator	(2)
	12 hr Timer	On/Off	On/Off
	Switch	Switches	Swi
	Variable	Variable Speed	Var
Filtration	Speed	Control	Spe
	Control	(2) Hour	(2)
	Hour Meter	meters	me
	16"x24"x2"	16"x24"x2"	16'
Ionic Oxidation Generators	MERV-11	MERV-11	MEI
	Pleated	Pleated Filter	Ple
	Filter	16"x24"x1"	16"
	16"x24"x1"	Pleated	Ple
Housing	Carbon	Carbon Filter	Car
	Filter		Car
Size/Weight	14" IO	(1) 9" & (1) 14"	(2)
	Generator	IO Generator	Ger
Aluminum housing with 2 rubber grip handles, 12" outlet	Aluminum housing with 2 rubber grip handles, 12" outlet	Aluminum housing with 2 rubber grip handles, 12" outlet	Aluminum housing with 2 rubber grip handles, 12" outlet
	Aluminum housing with 2 rubber grip handles, 12" outlet	Aluminum housing with 2 rubber grip handles, 12" outlet	Aluminum housing with 2 rubber grip handles, 12" outlet
Size/Weight	14"W x 20"H x 27"L	14"W x 20"H x 27"L	14'
	40 lbs.	40 lbs	27"
			

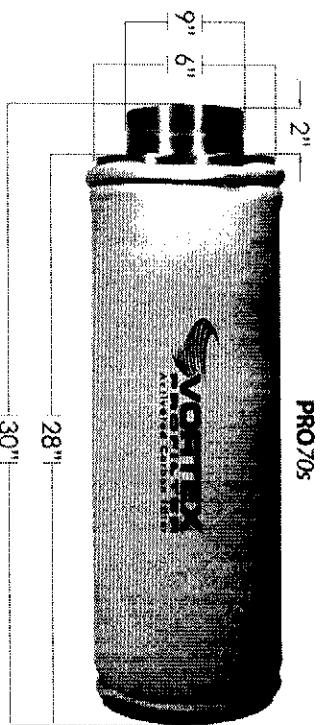
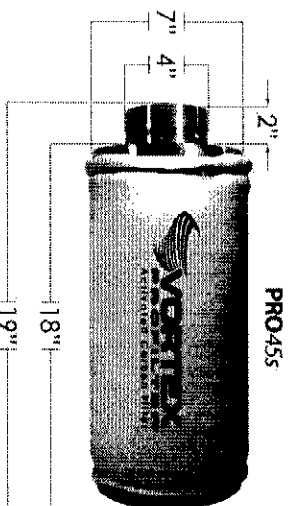
VORTEX

PROFILTERR

Activated Carbon Filter

Industrial Activated Carbon Filter
for Heavy Duty Applications

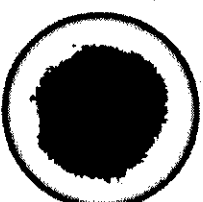
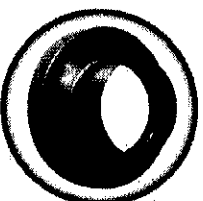
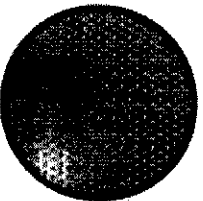
Manufactured with only the finest high porosity activated carbon, the PROFilters 45s and 70s effectively remove 99.5% of volatile organic compounds. The factory installed high capacity PREFilter eliminates bigger particles such as dust to prevent premature usage of the carbon. Rated for a continuous worry-free operation, light weight and its compact dimensions, make the PROFilters 45s and 70s ideal for residential filtration.



MODEL	Recommended Maximum CFM	Flange	Outside Diameter	Height	Weight	Carbon Bed Width	Recommended Fan	Pressure Drop at Max CFM
PRO45S	150 at 0.1 sec	4" fixed	7"	18in. 46cm	13.8 lbs.	1.6" (40.64mm)	VTX400	80pa/7.5wg
PRO70S	400 at 0.1 sec	6" fixed	9"	28in. 71cm	28.6 lbs.	1.6" (40.64mm)	VTX600 & 5-600	80pa/7.5wg

All PROFilter products come with a PREFilter included.

All PROFilters have a Max Operating Temperature of 175°F.



- High capacity prefilter
- 20mm thickness
- Low air resistance
- Antibacterial
- High capacity: 670g / M²
- Flame retardant

High quality galvanized perforated steel.

High quality galvanized steel.

High porosity virgin activated carbon 4mm. Specially designed to remove VOC. 6mm bed thickness.

PROfilter accessories
PREFilters



PREF45S



PREF70S