

# Lamers ENVIRONMENTAL

## Commercial Air Purification System A Photohydroionization™ (PHI) Technology



### **Reduces Airborne**

- Smoke •Mildew / Mold
- Odors •Bacteria •Viruses\* •VOCs

### **Effectively Reduces**

- Grease & Oils- (Restaraunts, Bars)
- Mercury - (Dental offices, Labs)
- VOC's - (Chemical odors)

### **Benefits**

- Economical
- Low Maintenance
- 10,000 Hour Cell Life
- Light weight
- Compact
- Versatile

Ideal for restaurants, bars, larger meeting rooms, nursing homes, schools, locker rooms, health clubs, pet kennels and other similar commercial applications.

### **The Problem:**

Indoor air pollution is now considered by the EPA and Congress to be America's No. 1 environmental health problem. Tightly sealed buildings and homes may be more energy efficient but can trap pollutants and microbes indoors causing allergies, odors, mold and illness.

### **The Solution:**

The APS has proven to drastically reduce airborne odors, mold, and bacteria in the 90+ percentile along with significant smoke reduction. Airborne FOGs also are reduced over 90% for restaurant applications and mercury is reduced over 90% for dental applications.

### **The Technology:**

The APS utilizes RGF's Photohydroionization™ technology which utilizes safe low level ozone, super oxide ions, hydro peroxides, passive negative ions and uv light targeted on a hydrated tri-metallic target to develop an advanced photo-catalytic oxidation.

\*UV, Hydro-peroxides and Ozone are recorded as effective in killing viruses however clinical tests have not been performed as there are thousands of strains.

# The Air Purification System

PHOTOHYDROIONIZATION CELLS



BLOWER

Multiple filter configurations possible

## ABSORBER CARTRIDGES

- (1) **MULTI CARTRIDGE** ODORS AND PARTICULATE
- (2) **ULTRA CARTRIDGE** PARTICULATES - LOW LEVEL ELIMINATION
- (3) **MERCURY CARTRIDGE** REMOVAL MERCURY VAPORS
- (4) **VOC CARTRIDGE** SMOKE, VOCS, CHEMICAL
- (5) **RADON CARTRIDGE** REMOVAL RADIOACTIVE RADON GAS
- (6) **FOG CARTRIDGE** (FATS, OILS, GREASE)

## SPECIFICATIONS

Dimensions	hxdxw 33 x 32 x 94 cm
Weight	24 kg
Electrical	230 volt 5 amps
Free air delivery	420 m <sup>3</sup> /h

## CONTROLS

- **ABSORBER CHANGE** Indicates absorbers need replacement
- **TURBO** 3 absorbers, blower, 2 targeted photohydroionization cells
- **HIGH** 3 absorbers, blower, 1 high intensity targeted photohydroionization cells
- **MED** 3 absorbers, blower, 1 targeted photohydroionization cells
- **LOW** 3 absorbers, blower

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