



# Air Disinfecting Purifier-70

(ADP-70)

## Overview

The ADP-70 utilizes Photocatalytic Oxidation (PCO) technology to purify the practice's air and surfaces. Bacteria, viruses, mold, mildew, and other contaminants are continuously rendered harmless. Odors are also eliminated, creating a cleaner, safer work environment. The ADP-70 gives you additional protection by reducing pathogens in the workplace.

## Applications

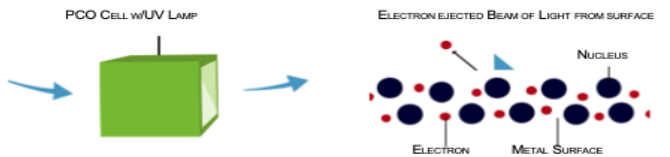
The ADP-70 is ideal for:

- Operatory Areas & Labs
- Patient Waiting & Breakrooms
- Seri-Centers & Prosthetic Processing
- Any Unconfined Area
- For multi-room use only



## About the Technology

ADP-70 utilizes PCO technology to generate advanced oxidation, primarily consisting of hydro-peroxides (vaporized hydrogen peroxide). PCO replicates nature's purifying process through the use of ultraviolet energy to activate a multi-metal catalyst, converting water vapor into oxidizers including peroxide and hydroxyls ( $\text{OH}^-$ ). These oxidants inactivate microbes via cell lysing or by changing the molecular structure of chemical contaminants.



THE ELECTRONS TRANSFERRED COMBINE WITH AIR ( $\text{O}_2$ ) AND WATER ( $\text{H}_2\text{O}$ ) (SUPPLIED BY THE MOISTURE FROM THE PCO CELL'S HYDROPHILIC COATING) TO FORM POSITIVELY AND NEGATIVELY CHARGED CLUSTER IONS (HYDROXYL RADICALS).



THE HYDROXYL RADICALS WORK TO RUPTURE THE SURFACE MEMBRANE LEADING TO MALFUNCTION AND EVENTUAL DEATH OF THE PATHOGEN CELL WITH ONLY CARBON DIOXIDE AND WATER VAPOR REMAINING.

## ADP-70 Specifications:

DIMENSIONS	WEIGHT	ELECTRICAL	PERFORMANCE
10.25"H	3.0 lbs	24V DC, .54 amps	airflow: 70 CFM
9.75"W		115 VAC adapter included	O3 output: <0.05 ppm
3.75"D			coverage: 2000sqft open area
			Typical practice coverage
			1000 open concept/800 non-open
***Meets or Exceeds: EPA, FDA, OSHA & NIOSH National Safety Standards***			<b>*WARRANTY 1 year</b>