

## Description

The PHI Cell uses advanced air purification and oxidation technology to protect against most biological and chemical contaminants within an enclosure. Housed in an Air Pear Thermal Equalizer fan, the PHI Cell works continuously to eliminate bacteria, viruses, mold, gases, odors, and VOCs while dramatically improving air circulation.

The Photohydroionization (PHI) Cell utilizes a broad spectrum, high-intensity UV light directed on a quad-metallic target that produces hydroperoxides. This creates a unique oxidation process that kills micro-organisms and neutralizes airborne chemicals, providing for a safer environment as well as clean, odor-free air.

Additionally, while the air is continuously being purified, the space is also being thermally equalized. This improves occupants' comfort by eliminating hot and cold spots, and it reduces energy consumption by balancing the floor and ceiling temperature.

## Applications

*Destratification fans are suitable for renovation, upgrade, and new construction projects.*

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



## Features

- Option for Air Pear destratification fans that safely reduces airborne bacteria and viruses up to 99%
- Eliminates stale air and odors
- No costly chemicals needed, making the PHI Cell both environmentally friendly & economical to use
- Low maintenance, integral to fans
- Scheduled operation in conjunction with occupancy sensing when used with *EnergyCenter* control systems
- Uses a high-efficiency rated UV bulb with an estimated life of 25,000 hours—nearly 3 years
- *autaniNet* secure wireless 2.4GHz communications with network devices
- **Designed & Made in the USA**

### Specifications

#### ATTRIBUTES & CHARACTERISTICS

- Creates aggressive advanced oxidation atmosphere
- Kills 99% of bacteria, viruses and mold (surface and airborne)
- Kills 85% of gases and odors

#### PERFORMANCE

- Estimated life of 25,000 hours (3 years)
- Broad spectrum 100-300 nm HE/UV™
- Low level ozone (0.01 - 0.02 ppm)

#### DIMENSIONS & PROPERTIES

- Available in 5in (9W), 9in (10W), and 14in (14W)

#### MATERIALS

- High intensity broad spectrum UV tube (100 - 300nm)
- Hydrated catalytic matrix cell (Quad-Metallic)
- UV bulb encased in a protective poly tube
- Entire assembly is encased in a protective metal cell

#### ACCESSORIES & OPTIONS

- Available in Air Pear Model 45
- Short, standard, and extended nozzles
- Works with 120/230/277VAC models

#### OPERATION

- Designed to operate 24 hours-a-day, 7 days-a-week to protect against airborne mold, bacteria, viruses, odors and VOCs

#### TESTED AND APPROVED BY

- UL, ETL, TUV, EPA, and CSA
- U.S. Military; U.S. Government – GSA
- Canadian, Chinese, and Japanese Governments
- European Union

#### LIMITATIONS

- Little effect on airborne particulate
- Do not install in environments open to the elements

#### GENERAL INFORMATION & SAFETY PRECAUTIONS

- Warranty: 3 years; Factory installed
- UV bulb is encased in a protective poly tube to prevent any glass or mercury breakage/leakage



Indoor use only

### Ordering Information

SKU	Description
A01-08-0002-01	PHI Photohydroionization™ Kit
<b>Optional Accessories</b>	
A01-08-0045-03	Model 45 – 115V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0045-04	Model 45 – 230/277V-EL-LISA with <i>autaniNet</i> wireless control
A01-08-0045-01	Model 45 – 115V-EL-LISA with <i>autaniNet</i> wired control
A01-08-0045-02	Model 45 – 230/277V-EL-LISA with <i>autaniNet</i> wired control

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