

## DIMENSIONS



## PUREAIR STANDARD SERIES RANGE - MODEL 45/PS-4

### DESCRIPTION

- Air purification and odour control destratification and airflow circulation fan.
- Features integrated Photohydroionization (PHI) Cell.
- Creates aggressive advanced oxidation atmosphere.
- Floods spaces with airborne hydroperoxides, superoxide and hydroxide ions.
- Broad spectrum HE/UV light targeted on a quad metallic target producing hydroperoxides.

### FEATURES

- Kills surface Germs, Bacteria & Viruses by 99%+.
- Kills airborne Germs, Bacteria & Viruses by 97%+.
- Reduces Odours by 99%+.
- Reduces VOCs, gases & Vapours by 80%+.
- Balances internal building temperatures.
- Saves 20% - 50% on heating & cooling costs.

### CELL PERFORMANCE

- 25,000 hours (3 yrs) estimated life of continuous runtime.

## PROPERTIES

| UNIT SIZE | Standard       |                  |
|-----------|----------------|------------------|
|           | Weight:        | 6.3 kgs (14 lbs) |
|           | Height to Rim: | 455 mm (18 in)   |
|           | Total Height:  | 605 mm (24 in)   |
| Diameter: | 375 mm (15 in) |                  |

| MOTOR | 230V                   |             |
|-------|------------------------|-------------|
|       | Watts* @ 50 htz:       | 42          |
|       | RPM* @ 50 htz:         | 1,450       |
|       | CFM* @ 50 htz (m3/hr): | 595 (1,010) |
|       | AMPS* @ 50 htz:        | 0.19        |

\*Motor data provided by motor manufacturer and is subject to change at anytime

| BULB | Length:  | 9" Cell |
|------|----------|---------|
|      | Wattage: | +10W    |

| COVERAGES    | AIRFLOW   |                         |
|--------------|---|-------------------------|
|              | Ceiling Height:   | 8m - 12m (26 - 39 ft)   |
|              | Nozzle Height:  | 7.5m - 11m (24 - 36 ft) |
|              | Diameter:   | 11m - 13m (36 - 43 ft)  |
| Floor area:  | 89m <sup>2</sup> - 133m <sup>2</sup> (958 - 1,432 ft <sup>2</sup> ) |                         |
| PURIFICATION |   |                         |
| 9" PHI Cell: | 1472m <sup>3</sup> (51983 ft <sup>3</sup> )                         |                         |

\*Coverages can vary dependent upon environment and load.

### MOTOR

- Single phase, shaded pole, single speed (variable with optional speed control), axial motor.
- Sealed bearings, no lubrication required.

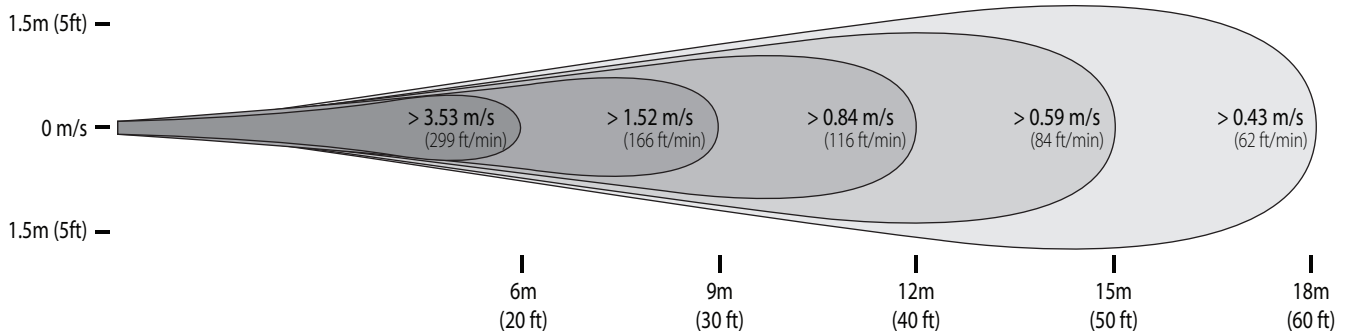


### INGRESS PROTECTION

- IP55 Rated.

## PROPERTIES

### VELOCITY PROFILE



### HOUSING & COMPONENTS

- ABS Resin - Inc. internal fixed blade stator.
- 5VA flame resistance rating.
- 1.8m (6') steel safety leash cable (fastened to housing).
- Hydrated catalytic matrix cell (Quad-Metallic).
- UV bulb encased in a protective poly tube & entire assembly is encased in a protective metal cell.

### OPERATING TEMPERATURES

- Operating Temp = -25°C (-13°F) to 70°C (158°F)
- Thermal shut off = 135°C (275°F)
- Reset = 125°C (255°F)

### NOISE LEVEL

- 3 Metres = 0 - 35 dB(A)

### COLOUR

- White as standard.
- Can be tailor painted to your colour specifications.

### ACCESSORIES & OPTIONS

- Suspended Series kit - Allows model 25 Airius unit to be mounted in a suspended ceiling grid.
- Speed Controls - On/off speed controls allow for variable output from Airius unit. 1 AMP and 5 AMP controls available.

### OPERATION

- Designed to operate 24 hours-a-day, 7 days-a-week to protect against airborne mould, bacteria, viruses, odours and VOCs and save heating & cooling costs.

### MAINTENANCE

- No maintenance required.
- If the Photohydroionization Cell fails, contact manufacturer.

### WARRANTY

- 5 years parts and workmanship from shipping date on fan unit.
- 2 years parts and workmanship from shipping date on Photohydroionization Cell.
- Refurbishment program after 3 year warranty period.
- 120 day money back guarantee - UK only (T's & C's apply).

### SAFETY PRECAUTIONS

- UV bulb is encased in a protective poly tube to prevent any glass or mercury breakage/leakage.

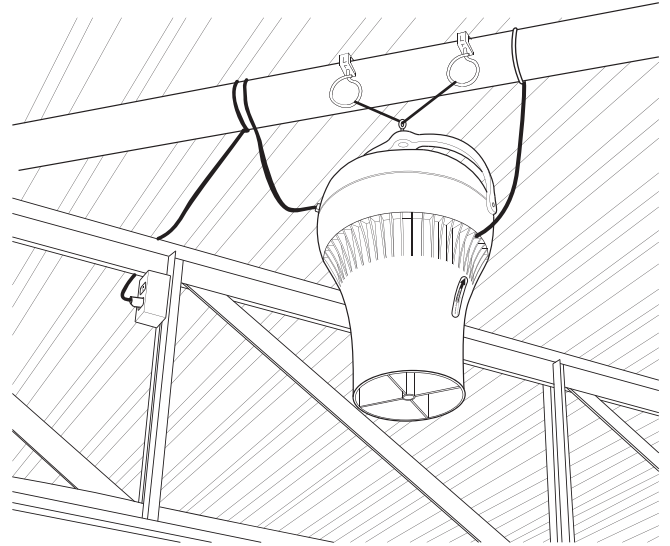
## PLACEMENT

### PREPARATION

- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm electrical continuity of Airius unit on the ground before permanently mounting in the ceiling

### INSTALLATION

- Hang vertically as high in the ceiling as possible  
Typically 300mm (12") - 450mm (18") from the roof deck to intake
- The Airius unit performs best when air column from the nozzle is unimpeded to the floor
- Use professionally installed hardware, capable of supporting a minimum of five times the weight
- Hardware to hang the unit includes but is not restricted to: Hooks, chains, cables, carabiners, bridle rings, beam clamps and bolts
- Density of the placement is directly related to the effectiveness, performance and savings
- Mount out of reach from people and animals
- Floor plans, mezzanines, office locations, machinery, people placement, plumbing, lighting, duct work, electrical systems, natural light/air systems, cranes, doors, windows, ventilation and fire suppression systems are all factors in properly locating the Airius system within the ceiling



### OPERATION

- Designed to operate 24 hours-a-day, 7 days-a-week to maintain thermal equalization/humidity equalization
- Use optional speed control to fine tune RPM if needed

### MAINTENANCE

- Frequency of cleaning will vary by application and environment
- You may clean the plastic housing with a damp warm cloth, using mild household detergents
- Do not use petroleum products, thinners or solvents to clean any part of the Airius unit
- If the Airius unit fails, contact manufacturer

