

## DIMENSIONS



## PUREAIR PHI STANDARD SERIES RANGE - MODEL 45

### 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.

### INGRESS PROTECTION

- IP44 Rated.

## PROPERTIES

UNIT SIZE	STANDARD	
	Weight:	6.3 kgs (14 lbs)
	Height to Rim:	455 mm (17.9 in)
	Total Height:	605 mm (23.8 in)
Diameter:	375 mm (14.7 in)	

MOTOR	230V @ 50 Hz	
	Watts*:	45.7
	RPM*:	1,344
	L/S*:	238 (505 CFM)
	m <sup>3</sup> /hr*:	858
	Centre Line Velocity*:	1.52 m/s @ 9 m
AMPS*:	0.20	

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

BULB	Length:	
	Wattage:	5" or 9" Cell
		+9W or +10W

COVERAGES	AIRFLOW	
	Ceiling Height:	Up to 11 m (36 ft)
	Nozzle Height:	Up to 10 m (32 ft)
Floor area:	Up to 111 m <sup>2</sup> (1200 ft <sup>2</sup> )	
		PURIFICATION
5" PHI Cell:	271 m <sup>3</sup> (9,570 ft <sup>3</sup> )	
9" PHI Cell:	1,472m <sup>3</sup> (51,983 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.

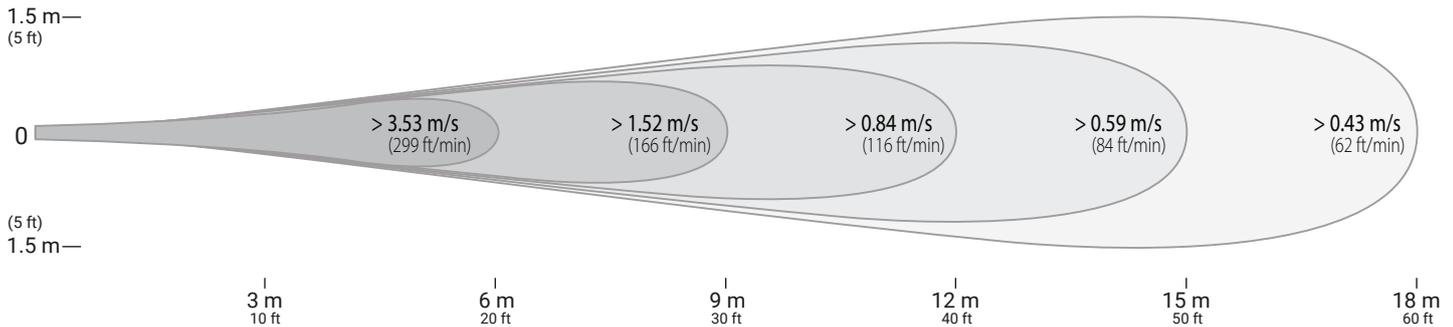


### CELL PERFORMANCE

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

## PROPERTIES

### VELOCITY PROFILE



### 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.

### OPERATING TEMPERATURES

- Operating Temp = -40°C (-40°F) to 70°C (158°F)

### HOUSING & COMPONENTS

- PC/ABS Resin - Inc. internal fixed blade stator, nozzle and cowl
- 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.
- Applicable to Titan Series Upgrade - Chemical resistant ABS resin housing and stator blades with stainless steel fixings

### NOISE LEVEL

- Sound Pressure Level = 32.7 dB(A)

Calculated from nozzle of unit to head height when installed at maximum ceiling height.

For additional noise level information contact Airius

### COLOUR

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

### MAINTENANCE

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

### ACCESSORIES & OPTIONS

- Suspended Series kit - Allows model 10 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.

### WARRANTY

- 5 years parts and workmanship from shipping date on fan unit.
- 1 years parts and workmanship from shipping date on Photohydroionization Cell.
- 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.

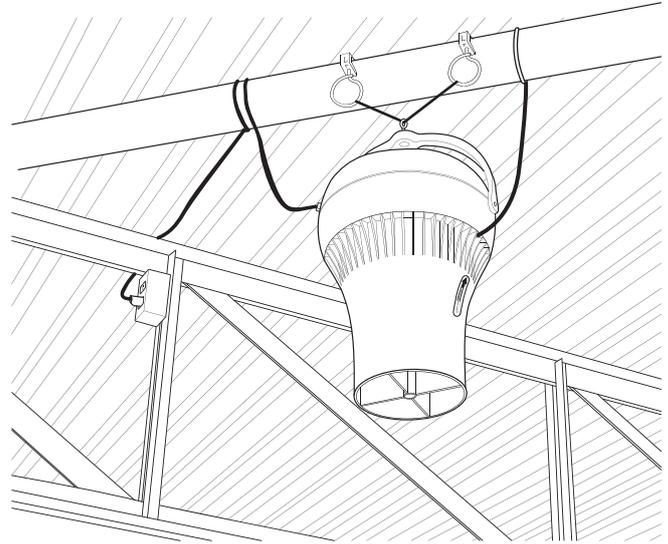
## PLACEMENT

### 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
- Units must have a clearance distance between PHI cell and occupants of 30cm for 5 inch cell and 60cm for 9 inch cell
- Ensure UV safety goggles are worn when handling unit

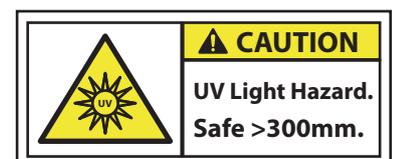


### OPERATION

- 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



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