

DIMENSIONS



PUREAIR PEARL SERIES RANGE - MODEL S1

DESCRIPTION

- Air purification and odour control destratification and airflow circulation fan.
- Features integrated patented needlepoint brush-style bipolar ion generator technology.
- Emits both positive (H+) and negative (O₂⁻) ions.
- Ions surround harmful pathogens and react as Hydroxyl (OH) radicals. This process removes hydrogen from the cell walls of microbes, inactivating harmful pathogens at a cellular level.

FEATURES

- 99% effective at neutralising COVID19 surrogate.
- Inactivates surface germs, bacteria & viruses by 99%+.
- Inactivates airborne germs, bacteria & viruses by 99%+.
- Reduces odours by 99%+.
- Reduces VOCs, gases & vapours by 99%+.
- Energy Savings of up to 40% by destratifying and reducing outdoor air intake by up to 75%.
- Reduces pressure loss by keeping HVAC coils clean without expensive UV system.
- Particle reduction and smoke control.
- Balances internal building temperatures.

PROPERTIES

UNIT SIZE	Standard	
	Weight:	3.0 kgs (6.6 lbs)
	Height to Rim:	229 mm (9 in)
	Total Height:	330 mm (13in)
Diameter:	286 mm (11in)	

MOTOR	230V	
	Watts* @ 50 hz:	32
	RPM* @ 50 hz:	1450
	CFM @ 50 hz (m ³ /hr):	457 (780)
	AMPS* @ 50 hz:	0.14

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

COVERAGES	AIRFLOW	
	Ceiling Height:	4m - 5.5m (13 - 18 ft)
	Nozzle Height:	3.5m - 5m (11.5 - 16.5 ft)
	Diameter:	Up to 14.5m (47 ft)
Floor area:	Up to 165m ² (1776 ft ²)	

*Coverages can vary dependent upon environment and load.



MOTOR

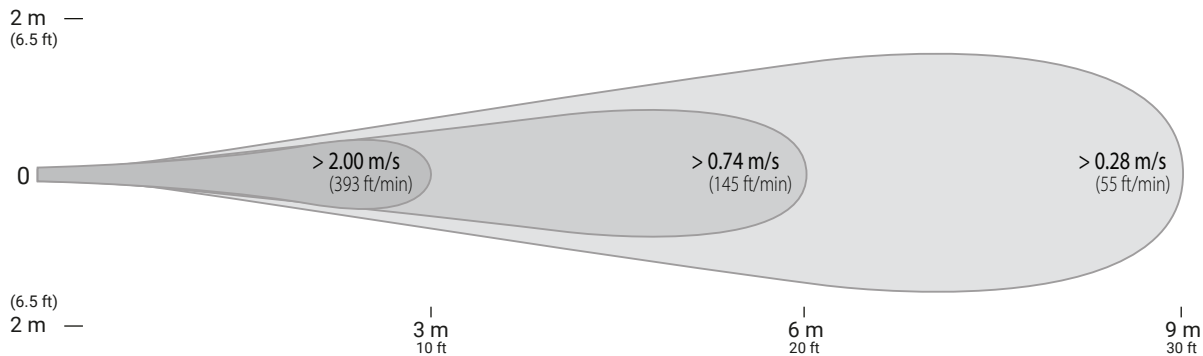
- Single phase, shaded pole, single speed variable with optional speed control, axial motor.
- Sealed bearings, no lubrication required.

BIPOLAR ION GENERATOR

- Needlepoint brush-style Bipolar ionisation air and surface purification system.
- No replacement purification parts required.
- Ozone free system.

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).

OPERATING TEMPERATURES

- Operating Temp = -20°C (-4°F) to 70°C (158°F)
- Thermal shut off = 110°C (230°F)
- Reset = 90°C (195°F)

NOISE LEVEL

- 3 Metres = 0 - 21 dB(A)

COLOUR

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

ACCESSORIES & OPTIONS

- Suspended Series kit - Allows 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

- Clean ion brush head emitters with warm water every 6 - 12 months to maintain optimum ion generation.
- If the Ion Generator unit fails, contact manufacturer.

WARRANTY

- 5 years parts and workmanship from shipping date on fan unit.
- 120 day money back guarantee - UK only (T's & C's apply).

SAFETY PRECAUTIONS

- General safety measures and precautions should be followed when working with any electrical device.
- No additional safety measures are necessary for working with either the fan or NPBI system.

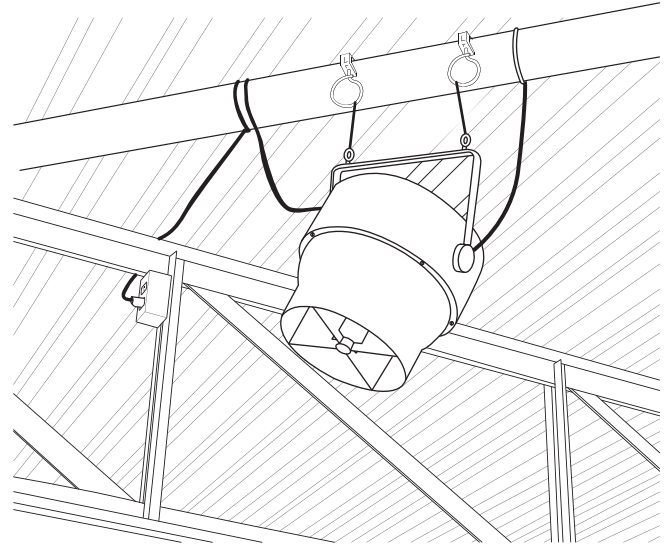
PLACEMENT

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