

DIMENSIONS



PROPERTIES

| UNIT SIZE | STANDARD | |
|-----------|----------------|------------------|
| | Weight: | 6 kgs (13 lbs) |
| | Height to Rim: | 343 mm (13.5 in) |
| | Total Height: | 445 mm (17.5 in) |
| | Diameter: | 368 mm (14.4 in) |

| MOTOR | 230V @ 50 Hz | |
|--|------------------------|-----------------|
| | Watts*: | 110 |
| | RPM*: | 1,600 |
| | L/S* | 671 (1,422 CFM) |
| | m ³ /hr*: | 2,416 |
| | Centre Line Velocity*: | 1.81 m/s @ 9 m |
| | AMPS*: | 0.80 |
| *Motor data provided by motor manufacturer and is subject to change at anytime | | |

PUREAIR⁺ NPBI ONYX SERIES RANGE

- MODEL EC

DESCRIPTION

- Air purification and odour control destratification and airflow circulation fan.
- Features integrated Needlepoint Bipolar Ionization (NPBI) System.
- 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

- 99.9%+ effective at neutralising COVID19 (SARS-CoV-2).
- 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.
- No maintenance required.

| COVERAGES | AIRFLOW | |
|--|-----------------|---|
| | Ceiling Height: | Up to 15 m (49 ft) |
| | Nozzle Height: | Up to 14 m (46 ft) |
| | Floor area: | Up to 185 m ² (2,000 ft ²) |
| *Coverages can vary dependent upon environment and load. | | |



MOTOR

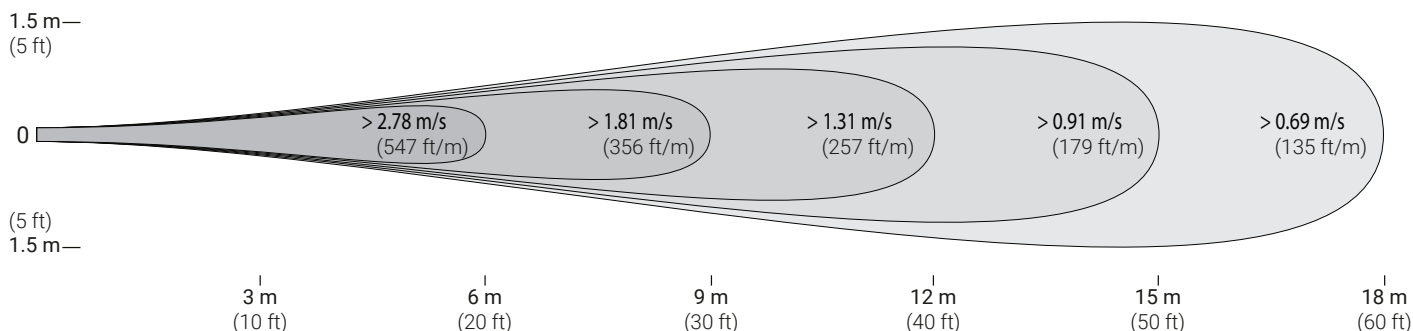
- Single phase, electrically commutated, variable speed (with optional speed control), 92% efficient motor
- Sealed bearings, no lubrication required.

NPBI SYSTEM

- Self-cleaning, maintenance free Needlepoint Bipolar Ionization air and surface purification system.
- Ozone free system.

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 = -25°C (-13°F) to 60°C (140°F)

HOUSING & COMPONENTS

- PC/ABS Resin - Inc. internal fixed blade stator, nozzle and cowl
- 5VA flame resistance rating.
- Applicable to Titan Series Upgrade - Chemical resistant ABS resin housing and stator blades with stainless steel fixings.

NOISE LEVEL

- Sound Pressure Level = 43.4 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 NPBI unit fails, contact manufacturer.

ACCESSORIES & OPTIONS

- 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.
- 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

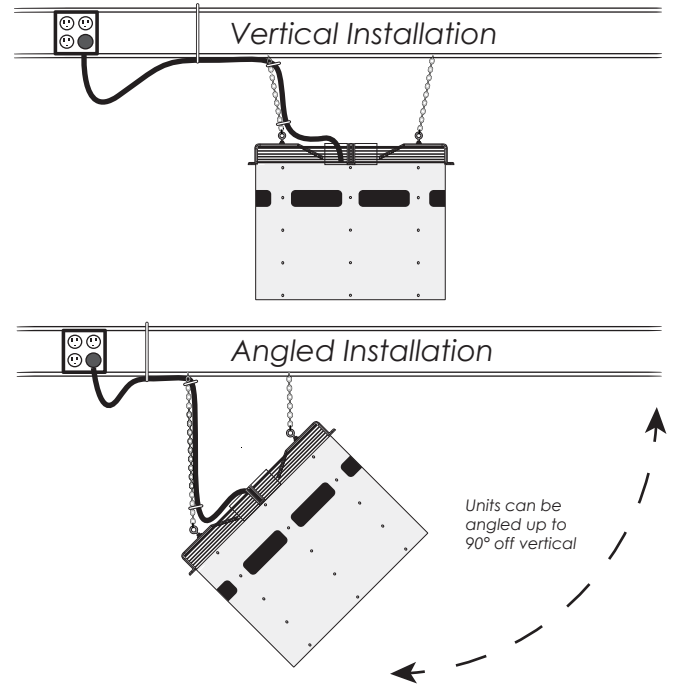
- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm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