

## DIMENSIONS



## PROPERTIES

| UNIT SIZE      | STANDARD |
|----------------|----------|
| Weight:        | 6.00 kgs |
| Height to Rim: | 343 mm   |
| Total Height:  | 445 mm   |
| Diameter:      | 368 mm   |

| MOTOR                               | 230V                   |
|-------------------------------------|------------------------|
| Watts* @ 50 htz:                    | 72                     |
| RPM* @ 50 htz:                      | 1,320                  |
| L/S* @ 50 htz:<br>(m3/hr):          | 500<br>(1,800)         |
| Centre Line Velocity <sup>1</sup> : | 1.0 m/s (@7.50 Metres) |
| AMPS* @ 50 htz:                     | 0.32                   |
| Thrust*:                            | 3.00 Newtons           |

\*Motor data provided by motor manufacturer and is subject to change at anytime  
<sup>1</sup>Velocity profile tested in situ

## ONYX SERIES RANGE - MODEL ONYX PS-4



### COVERAGE

- Ceiling Height = 5m - 10m
- Diameter = 8m - 12m
- Floor area = 60m<sup>2</sup> - 120m<sup>2</sup>

For cooling applications please contact Airius

### MOTOR

- Single Phase
- 1320 RPM @ 50hz
- PS4 Four Pole Motor
- All model 50 PS4 motors are sourced from EBM PAPST

### OPERATING TEMPERATURES

- Min start temp (approx.) = - 25° C
- Maximum ambient temp = 50° C
- Overtemperature protected electronics/motor

### NOISE LEVELS

- Sound Power Level = 0-62 dB (A)
- Sound Pressure Level @ 6 mts = 38 dB
- Sound Pressure Level @ 10 mts = 32 dB

Please contact Airius for full Noise Testing Report

### INGRESS PROTECTION

- IP44 Rated

### COLOUR

- Off white as standard
- Black and grey available as option

### ACCESSORIES & OPTIONS

- Airius Transformer type speed controller 1 and 5 Amp available. 0-100% in 5 steps

### WARRANTY

- 5 years full manufacturers replacement from date of despatch. Subsequent 5 year 'half new price' rebuild cover

### STANDARDS

**Product conforming to standards:**  
EN 60335-1, EN 61800-5-1, EN 60950-1, CE

## 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

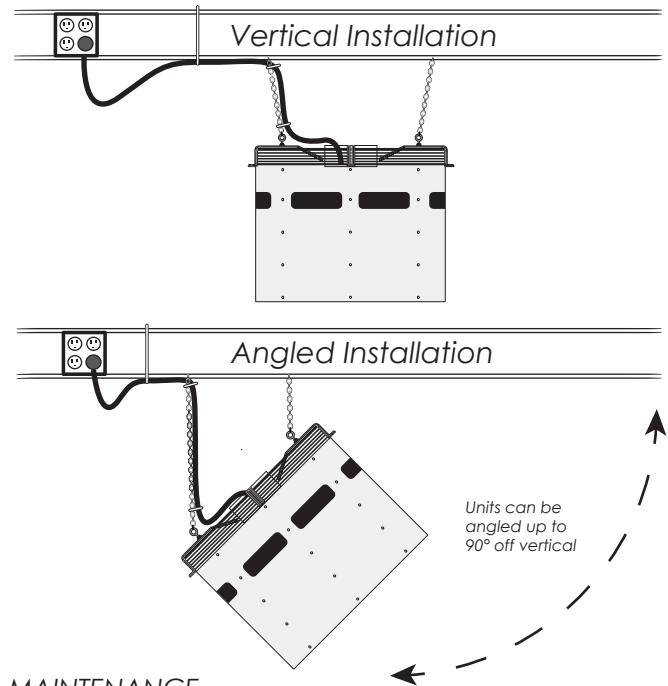
### INSTALLATION

- Hang vertically as high in the ceiling as possible. Typically 300 – 450 mm from the roof deck to intake. However, for cooling, unit can be suspended 2-3 metres below ceiling or hung from walls etc.
- 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
- For horizontal installations Airius recommend the use of the Airius proprietary cradle or a second cable or rod attachment to the discharge end to provide balance

**NOTE:-** Air Pears must not be installed directly to structure if they are to be angled. In this case a small length of cable or wire must be used between the handle and the structure to reduce compound twisting torque on the handle.

### 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

### MATERIALS & PROPERTIES

- Constructed from recyclable materials
- The outer shell, stator and fan blades are fire rated 5VA materials
- Power cord is a 3 wire 1.02 mm diameter 300VAC rated electrical cord - CE/EU compliance rated as HO5VV
- Motor is thermally protected. Shutoff is at 135°C & reset is at 125°C
- 62dB (A) Sound Power Level
- No lubrication required. Bearings are sealed