

DIMENSIONS



PROPERTIES

UNIT SIZE	STANDARD
Weight:	7.00 kgs
Height to Rim:	343 mm
Total Height:	445 mm
Diameter:	368 mm

MOTOR	230V
Watts* @ 50 hz:	87
RPM* @ 50 hz:	1,690
L/S* @ 50 hz: (m ³ /hr):	637 (2,294)
Centre Line Velocity ¹ :	1.90 m/s (@9 Metres)
AMPS* @ 50 hz:	0.36

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

ONYX SERIES RANGE - MODEL ONYX EC



COVERAGE

- Ceiling Height = 6m - 10m
- Diameter = 8m - 12m
- Floor area = 60m² - 120m²

For cooling applications please contact Airius

MOTOR

- Single Phase
- 1690 RPM @ 50hz
- EC - Electricity Commutated, 92% efficient motor
- All model 50 EC motors are sourced from EBM PAPST

OPERATING TEMPERATURES

- Min start temp (approx.) = - 25° C
- Maximum ambient temp = 60° C
- Overtemperature protected electronics/motor

NOISE LEVELS

- Sound Power Level = 74 dB (A)
- Sound Pressure Level @ 6 mts = 50 dB
- Sound Pressure Level @ 10 mts = 46 dB

Please contact Airius for full Noise Testing Report

INGRESS PROTECTION

- IP54 Rated

COLOUR

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

ACCESSORIES & OPTIONS

- Airius speed control - Potentiometer, Touchscreen or Wi-Fi 0-10 Volt DC Analogue Control options
- Building management systems can vary speed of EC based on a 0-10VDC

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

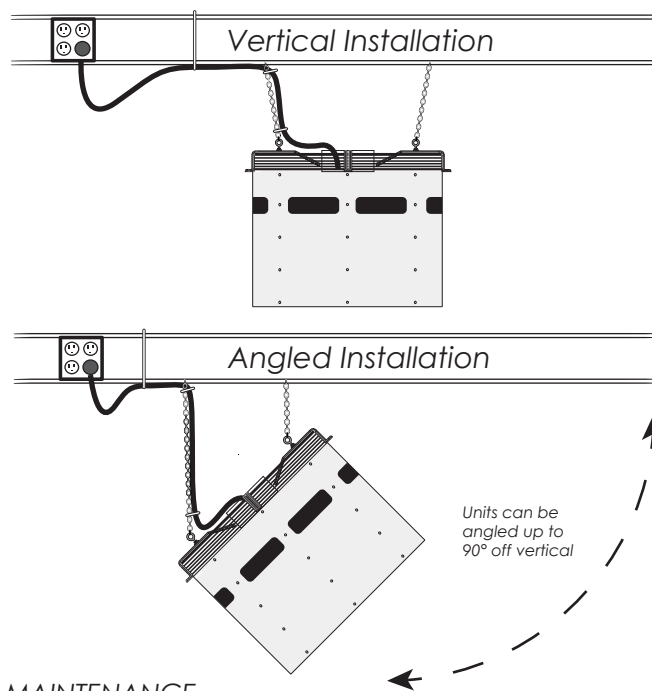
INSTALLATION

- 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
- 74dB (A) Sound Power Level
- No lubrication required. Bearings are sealed