

MODEL 100 DIMENSIONS



MODEL 100 PROPERTIES

UNIT SIZE		Standard	
Weight:		20.5 kgs (45 lbs)	
Height to Rim:		845 mm (33.25 in)	
Total Height:		N/A	
Diameter:		495 mm (19.5 in)	

MOTOR		230V	
Watts* @ 50 htz:		390	
RPM* @ 50 htz:		1690	
CFM* @ 50 htz (m3/hr):		3358 (5705)	
AMPS* @ 50 htz:		2.5	

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

COVERAGE

- Ceiling Height = 20m - 31m (65 - 101 ft)
- Diameter = 21m - 14m (69 - 46 ft)
- Floor area = 279m² - 186m² (3,003 - 2,002 ft²)

MOTOR

- Single Phase
- 1690 rpm @ 50htz
- EC - Electrically Commutated, 92% efficient motor
- All model 100 motors are sourced by EBM PAPST

OPERATING TEMPERATURES

- Min start temp (approx.) = -10° C (-14° F)
- Min running temp = -20° C (-4° F)
- Shut off = 135° C (275° F)
- Reset = 125° C (255° F)

NOISE LEVELS

- 3 Metres = 0 - 68dB
- Floor Level = 0 - 43dB

INGRESS PROTECTION

- IP54 Rated

COLOUR

- Cool gray 2C - Off white as standard
- Can be tailor painted to your colour specifications

ACCESSORIES & OPTIONS

- Airius speed control - Potentiometer to alter 0-10VDC control (EC)
- Building management systems can vary speed of EC based on a 0-10VDC

WARRANTY

- Warranty offered - 3 years from shipping date

MODEL 100 PLACEMENT

PREPARATION

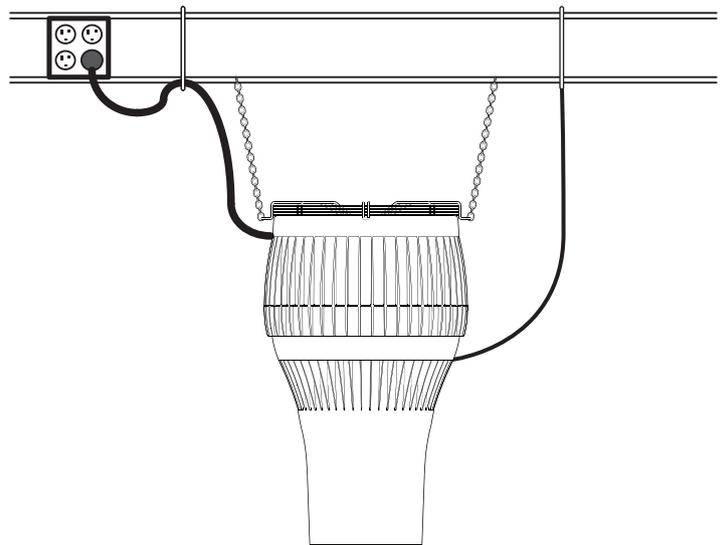
- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm 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 12 - 18 inches 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

MATERIALS & PROPERTIES

- Constructed from recyclable materials
- The outer shell, stator and fan blades are fire rated 5VA materials
- Power cord is a 3 wire 18 AWG (or 16 AWG) 300VAC rated electrical cord - CE/EU compliance rated as HO5VV
- EC - Electrically Commutated, 92% efficient motor
- Motor is thermally protected. Shutoff is at 135°C (275°F) & reset is at 125°C (255°F)
- 0 - 68 dB(A)* at 50 htz / 0 - 43 dB at floor level
- No lubrication required. Bearings are sealed



Airius LLC, © 2011. All Rights Reserved.