



# PRODUCT INFORMATION & INSTALLATION GUIDE 2025

Airius Model 45  
**SUSPENDED SERIES**  
EX-S-45-CKIT & EX-A-45-P4-STD-230

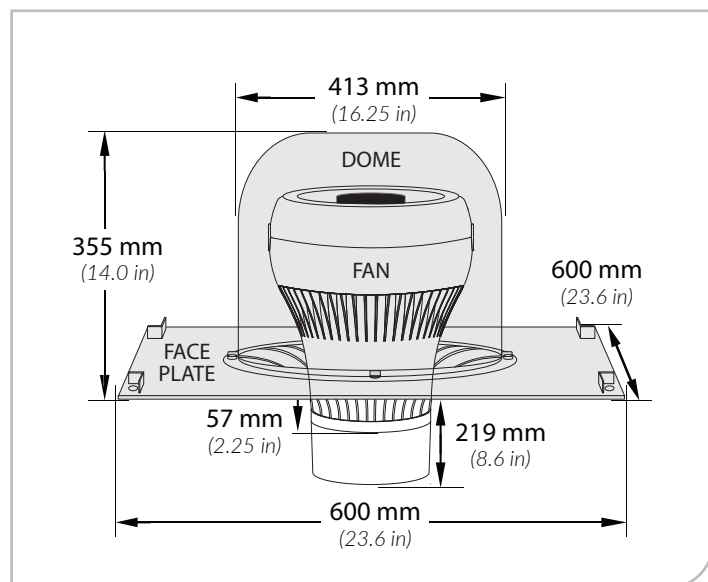
[www.airius.co.uk](http://www.airius.co.uk)

**AIRIUS**<sup>®</sup>  
saving you energy

## Product Information & Installation Guide

### SUSPENDED SERIES - Model 45

## MODEL 45 DIMENSIONS AND PROPERTIES



### UNIT SIZE

|                         |                     |
|-------------------------|---------------------|
| Weight (Ceiling Mount): | 4.0 kgs (8.8 lbs)   |
| Weight (Fan):           | 6.3 kgs (13.8 lbs)  |
| Weight (Total):         | 10.3 kgs (22.7 lbs) |
| Width:                  | 600 mm (23.6 in)    |
| Depth:                  | 600 mm (23.6 in)    |
| Dome Height:            | 355 mm (14.0 in)    |
| Dome Diameter:          | 413 mm (16.25 in)   |
| Nozzle Height:          | 219 mm (8.6 in)     |

### STANDARD

### MOTOR

|                                     |                |
|-------------------------------------|----------------|
| Watts*:                             | 45.7           |
| RPM*:                               | 1344           |
| L/S*:                               | 238 (505 CFM)  |
| m <sup>3</sup> /hr:                 | 858            |
| Centre Line Velocity <sup>1</sup> : | 0.84 m/s @ 9 m |
| AMPS*:                              | 0.20           |

### 230V @ 50 Hz

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

### COVERAGE Heating Cooling

|                  |                                                  |                                                  |
|------------------|--------------------------------------------------|--------------------------------------------------|
| Ceiling Height = | Up to 11 m (36 ft)                               | Up to 8 m (26 ft)                                |
| Floor Area =     | Up to 111 m <sup>2</sup> (1200 ft <sup>2</sup> ) | Up to 88.8 m <sup>2</sup> (955 ft <sup>2</sup> ) |

All data is indicative only and can change subject to application. For more accurate design please contact Airius.

### MOTOR

Single Phase  
PSC - Permanent Split Capacitor motor  
230 Volt @ 50 Hz

### OPERATING TEMPERATURES

|                       |                                 |
|-----------------------|---------------------------------|
| Operating Temperature | = -25°C (-13°F) to 70°C (158°F) |
| Thermal Cut Off       | = 70°C (158°F)                  |

### HOUSING

PC/ABS Resin - Inc. Faceplate, dome, internal fixed blade fan stator, nozzle and cowl

UL 94 5VA flame resistance rating

Applicable to Titan Series Upgrade - Chemical resistant ABS resin housing and stator blades with stainless steel fixings

### INGRESS PROTECTION

IP44 Rated

### NOISE LEVELS

Sound Pressure Level = 32.7 dB(A)

Calculated from nozzle of unit to head height when installed at maximum ceiling height

For additional noise level information contact Airius

### COLOUR

Cool gray 2C - Off white as standard

Can be tailor painted to your colour specifications

Titan Series Upgrade - Off white as standard

### ACCESSORIES & OPTIONS

Optional speed controls allow for variable output from Airius unit.

1 AMP and 5 AMP controls available

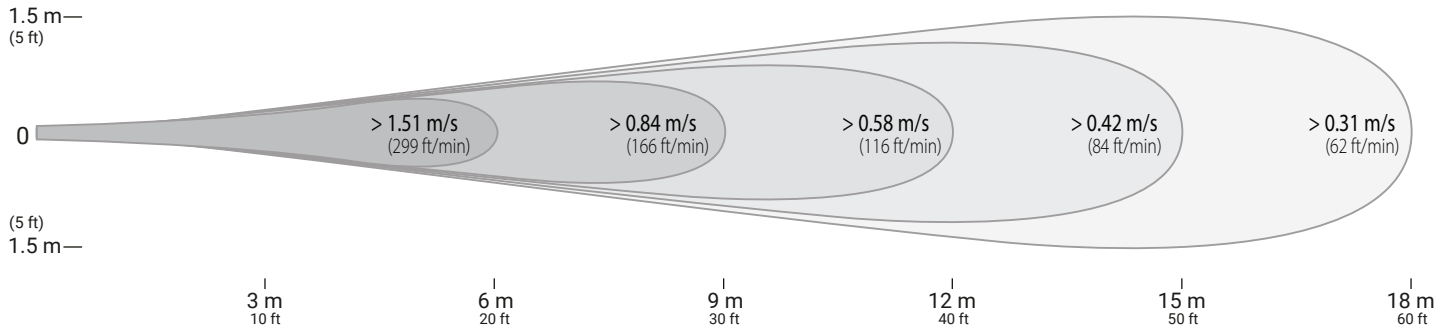
Air & Surface Purification - Used to mitigate contaminants:

- PHI kit - Photohydroionization - Advanced oxidation technology
- NPBI kit - Needlepoint BiPolar Ionization - Leading Ion technology

### WARRANTY

3 years parts and workmanship from shipping date  
120 day money back guarantee (T's & C's apply)

## VELOCITY PROFILE



## UNIT 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.

### 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 UL 94 5VA materials.

Power cord is a 1.8 m, 3 wire, 1.02 mm diameter 300VAC rated electrical cord - CE/EU compliance rated as HO5VV (PLUG NOT SUPPLIED).

Single phase, shaded pole, single speed, axial motor.

Motor is thermally protected. Cut off is at 70°C.

No lubrication required. Bearings are sealed.

### OPERATION

Designed to operate 24 hours-a-day, 7 days-a-week to maintain air circulation/thermal equalization/humidity equalization.

Use optional speed control to fine tune RPM if needed.

### INSTALLATION

Do not hard connect fans in excess of 10 kgs unless agreed with Airius prior to Installation. When attaching it is preferred if some chain or cable is used between fan and the support. However it is not imperative.

For installation into suspended, dropped or false ceilings.

For cooling applications fans can be installed slightly lower. Contact Airius for design details and assistance.

The Airius unit performs best when air column from the nozzle is unimpeded to the floor.

The Airius unit should not be mounted directly in front of heat ducts, vents or any other high heat source.

Use professionally installed hardware, capable of supporting a minimum of five times the weight of the fan unit.

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.

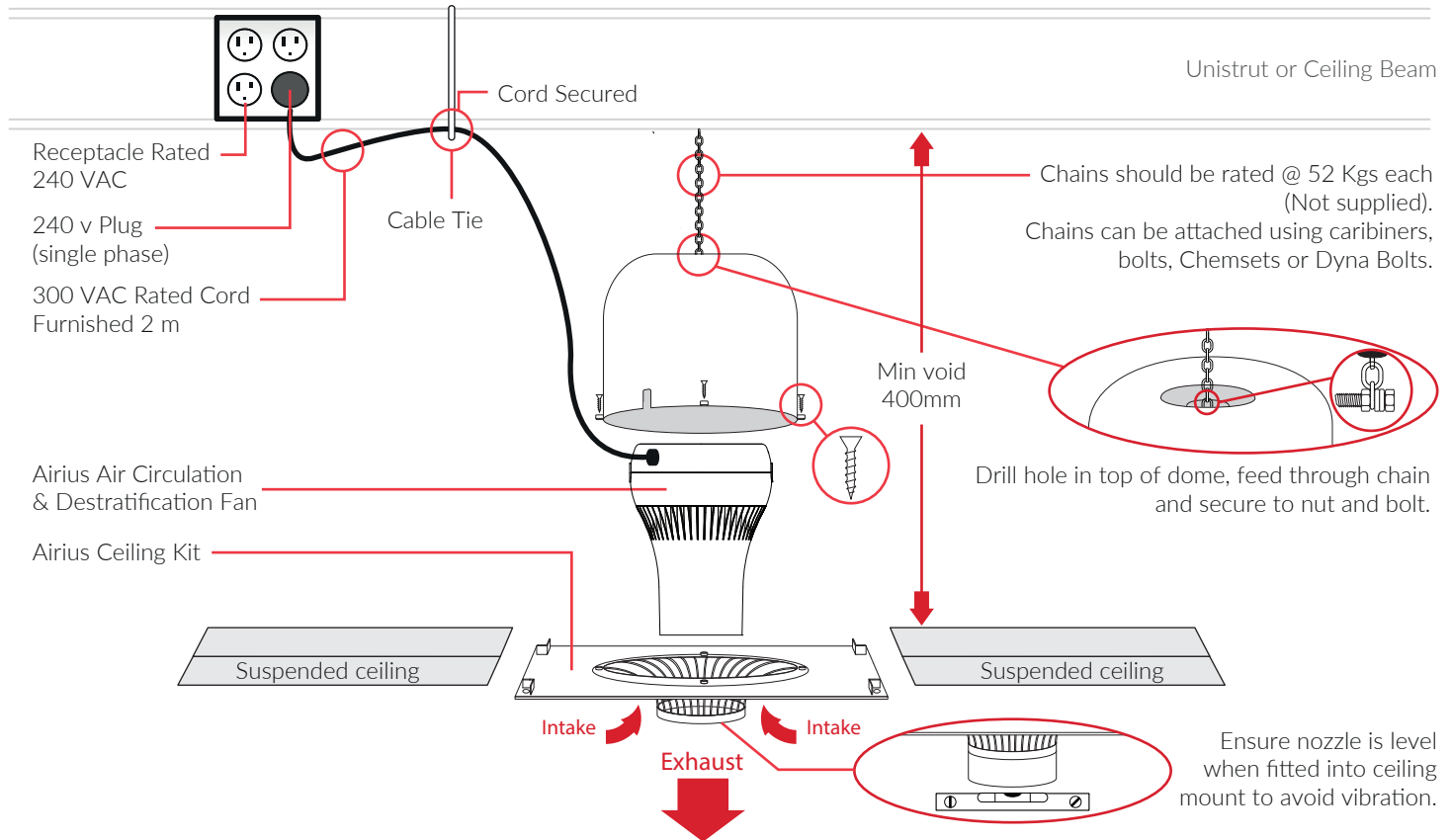
Mount out of reach from people and animals.

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.

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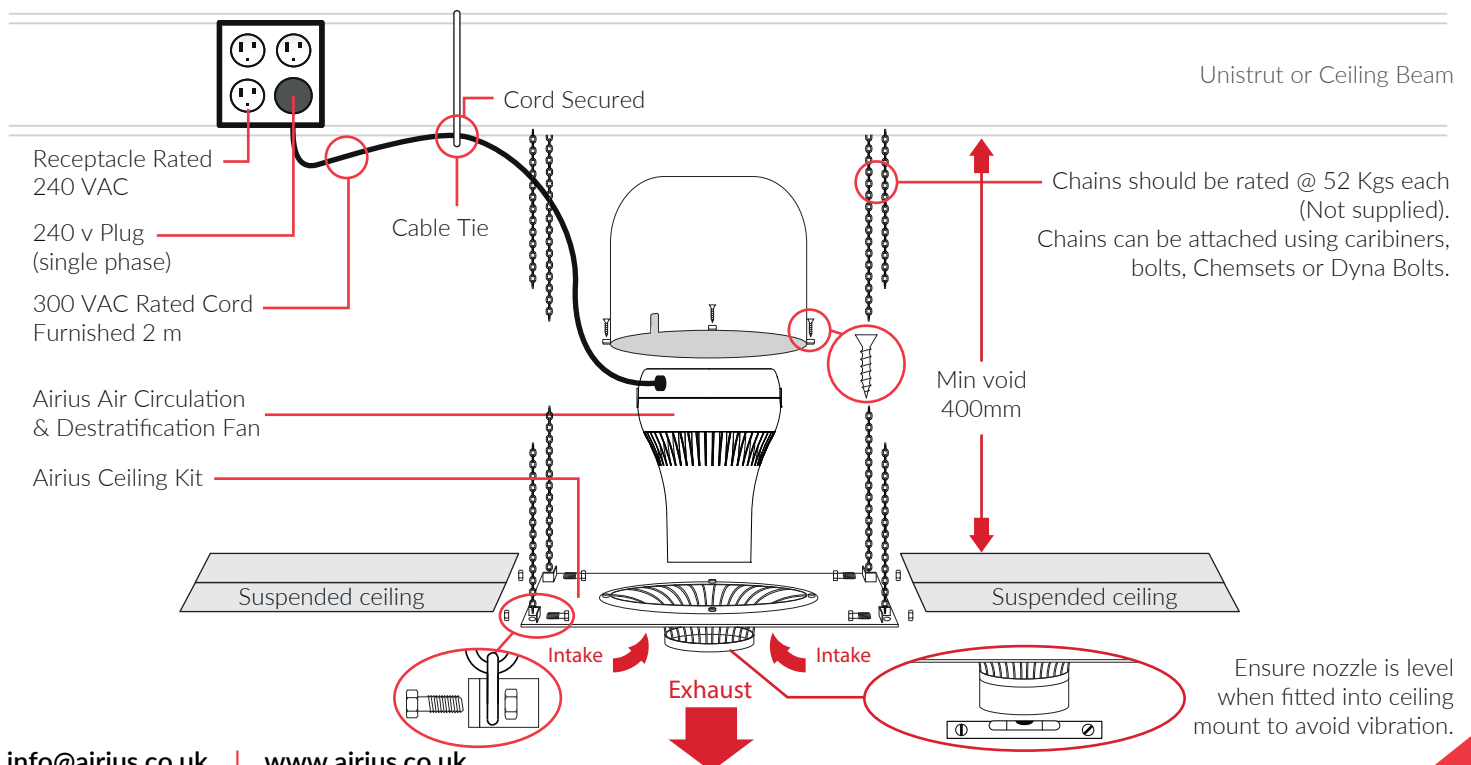
## CHAIN HUNG (1 Chain)

PLUG NOT SUPPLIED



## CHAIN HUNG (4 Chains)

PLUG NOT SUPPLIED





### **Airius Europe, Middle East & Asia**

Airius Europe Ltd  
Holwell Farm, Cranborne  
Dorset  
BH21 5QP, UK  
Tel - +44 (0) 1202 554200  
Email - [info@airius.co.uk](mailto:info@airius.co.uk)  
Web - [www.airius.co.uk](http://www.airius.co.uk)

### **Airius Americas**

Email - [Info@airiusfans.com](mailto:Info@airiusfans.com)  
Web - [www.airiusfans.com](http://www.airiusfans.com)

### **Airius Oceania & S.E. Asia**

Email - [info@airius.com.au](mailto:info@airius.com.au)  
Web - [www.airius.com.au](http://www.airius.com.au)

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