



PRODUCT INFORMATION & INSTALLATION GUIDE 2023

Airius Model 15 'Short' SUSPENDED SERIES

www.airius.co.uk





Get In Touch

 \mathscr{C}

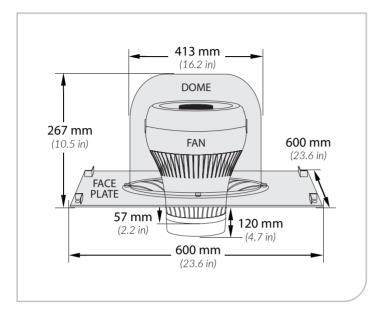
Call: <u>0845 6880112</u>







MODEL 15 SHORT DIMENSIONS AND PROPERTIES



UNITSIZE	STANDARD
Maight (Cailing Mayort)	0 / 1,00 /0 //

3.6 kgs (8 lbs) Weight (Ceiling Mount): Weight (Fan): 4.1 kgs (9 lbs) 7.7 kgs (16.9 lbs) Weight (Total): Width: 600 mm (23.6 in) Depth: 600 mm (23.6 in) Dome Height: 267 mm (10.5 in) Dome Diameter: 413 mm (16.2 in) Nozzle Height: 120 mm (4.7 in)

MOTOR 230V @ 50 Hz

Watts*: RPM*: 1154

127 (269 CFM) 457 1/5** m³/hr:

2.33 m/s @ 3 m Centre Line Velocity¹: AMPS* 0.07

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

COVERAGE Heating Cooling

Ceiling Height = Up to 5.5 m (18 ft) Up to 3.5 m (11 ft) Up to 74 m² (800 ft²) Up to 36.8 m² (400 ft²)

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

NOISE LEVELS

Sound Pressure Level = 28.9 dB(A)

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

For additional noise level information contact Airius

MOTOR

Single Phase

PSC - Permanent Split Capacitor motor 230 Volt @ 50 Hz

COLOUR

Cool gray 2C - Off white as standard

Can be tailor painted to your colour specifications

Titan Series Upgrade - Black as standard

OPERATING TEMPERATURES

Operating Temperature = -20°C (-4°F) - 70°C (158°F)

HOUSING

PC/ABS Resin - Inc. Faceplate, dome, internal fixed blade fan 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

ACCESSORIES & OPTIONS

On/off 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

INGRESS PROTECTION

IP55 Rated

WARRANTY

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

info@airius.co.uk | www.airius.co.uk

Get In Touch

Call: 0845 6880112

Email: info@adremit.co.uk

Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard,

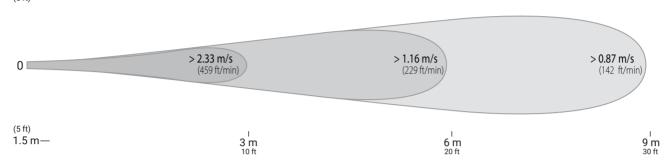






VELOCITY PROFILE

1.5 m-(5 ft)



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 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. Shutoff is at 110°C & reset is at 90°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.

info@airius.co.uk | www.airius.co.uk



Get In Touch

Call: 0845 6880112

Email: info@adremit.co.uk

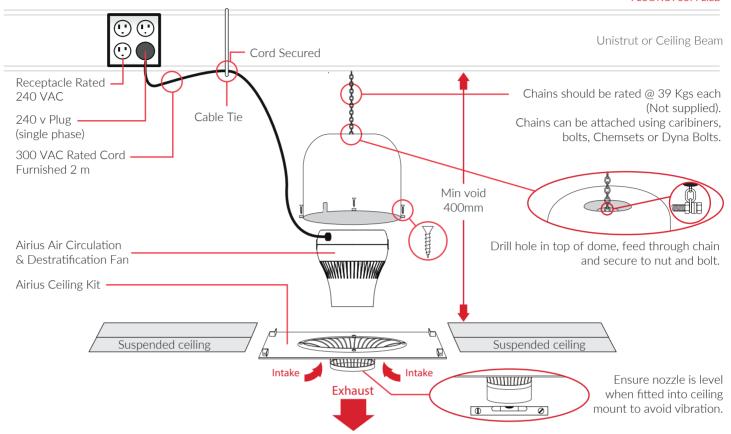
Our Address





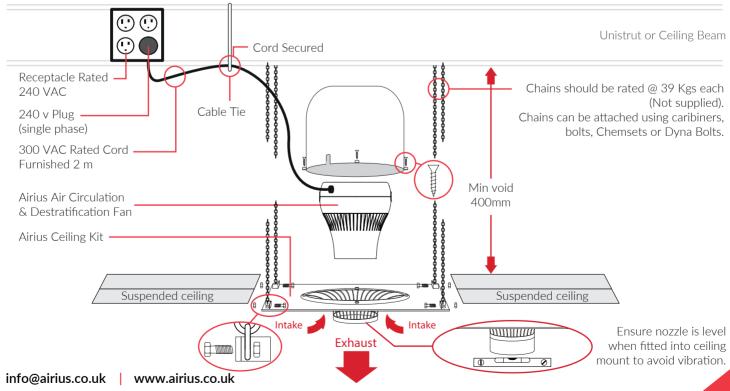
CHAIN HUNG (1 Chain)

PLUG NOT SUPPLIED



CHAIN HUNG (4 Chains)

PLUG NOT SUPPLIED





Get In Touch

Call: <u>0845 6880112</u>

 \square





AIRIUS SPFFD CONTROLLER 1 AMP



Airius Model	10/S3	15/S2	25/S1	45	Onyx	50	60	G400
No. of Units	14	11	7	4	3	3	1	1

MOUNTING

The controllers are to be mounted on a smooth surface. Connect voltage supply, motor(s) and earth as shown in the scheme with cables of the proper diameter. On the mains side, a safety switch with recommend pre-fuses has to be installed.

TRANSPORT AND STOCK KEEPING

Avoid shocks and extreme conditions, stock in original packaging.

WARRANTY

Two years from delivery date against defects in manufacturing. Any modifications or alterations to the product relieve the manufacturer of all responsibility. The manufacturer bears no responsibility for any misprints or mistakes in this data, and modifications or improvements to the product can be made at any time after date of publication.

TECHNICAL DATA

230Vac - 50/60Hz Voltage:

Weight: 1 kg IP Rating: IP54

MAX AMPS FUSE STR-1-10L10 1.0 FT-1.25 A

Enclosure: Plastic R-ABS, UL94-VO, grey RAL 7035 or sheet steel (RAL 7032, polyester powder coating).

Recommended prim. Fuse: ca 1,5 x trafo. Max ambient temperature: 35°C

These transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (230V - 50/60Hz) to control the speed (of fans, pumps etc.). When choosing a controller it is important to know the current intensity consumption on the taps.

MAINTENANCE

In normal conditions the controllers are maintenance-free. If soiled clean with dry or dampish cloth. In case of heavy pollution clean with a non-aggressive product. In these circumstances the controller should be disconnected from the mains. Pay attention that no fluids enter the controller. Only reconnect the controller to the mains when it is completely dry.

MOTOR PROTECTION

It is always recommended to install a proper motor protection

All works may only be carried out by skilled personnel following the local regulations and AFTER the controller is completely separated from the mains. Replace fuse only with same type and rating.

According to the low voltage directive: 2006/95/EC/ The EMC directive: 2004/108/EC







info@airius.co.uk | www.airius.co.uk



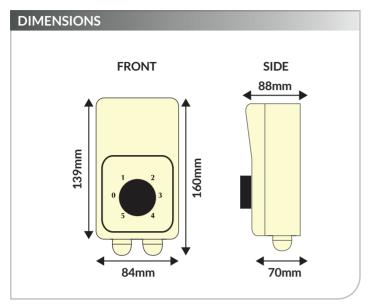
Get In Touch

Call: 0845 6880112

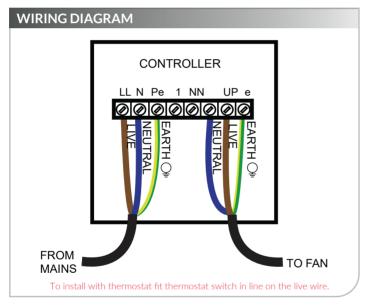




AIRIUS SPEED CONTROLLER 1 AMP









PLEASE NOTE: THIS CONTROLLER MUST BE EARTHED

info@airius.co.uk | www.airius.co.uk



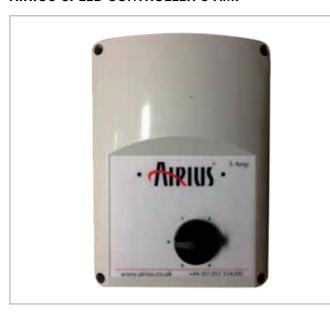
Get In Touch

Call: <u>0845 6880112</u>





AIRIUS SPFFD CONTROLLER 5 AMP



Airius Model	10/S3	15/S2	25/S1	45	Onyx	50	60	G400
No. of Units	74	57	35	21	15	15	7	5

MOUNTING

The controllers are to be mounted on a smooth surface. Connect voltage supply, motor(s) and earth as shown in the scheme with cables of the proper diameter. On the mains side, a safety switch with recommend pre-fuses has to be installed.

TRANSPORT AND STOCK KEEPING

Avoid shocks and extreme conditions, stock in original packaging.

WARRANTY

Two years from delivery date against defects in manufacturing. Any modifications or alterations to the product relieve the manufacturer of all responsibility. The manufacturer bears no responsibility for any misprints or mistakes in this data, and modifications or improvements to the product can be made at any time after date of publication.

TECHNICAL DATA

230Vac - 50/60Hz Voltage:

Weight: 5.5 kg IP54 IP Rating:

MAX AMPS FUSE STR-1-50L22 5.0 FT-8.0 A

Enclosure: Plastic R-ABS, UL94-VO, grey RAL 7035 or sheet steel (RAL 7032, polyester powder coating).

Recommended prim. Fuse: ca 1,5 x trafo. Max ambient temperature: 35°C

These transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (230V - 50/60Hz) to control the speed (of fans, pumps etc.). When choosing a controller it is important to know the current intensity consumption on the taps.

MAINTENANCE

In normal conditions the controllers are maintenance-free. If soiled clean with dry or dampish cloth. In case of heavy pollution clean with a non-aggressive product. In these circumstances the controller should be disconnected from the mains. Pay attention that no fluids enter the controller. Only reconnect the controller to the mains when it is completely dry.

MOTOR PROTECTION

It is always recommended to install a proper motor protection

All works may only be carried out by skilled personnel following the local regulations and AFTER the controller is completely separated from the mains. Replace fuse only with same type and rating.

According to the low voltage directive: 2006/95/EC/ The EMC directive: 2004/108/EC







info@airius.co.uk | www.airius.co.uk



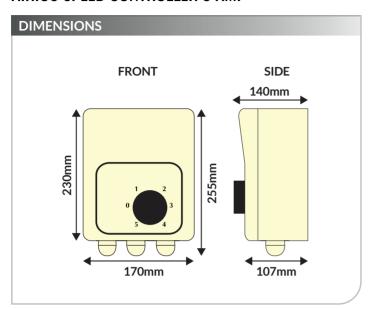
Get In Touch

Call: 0845 6880112

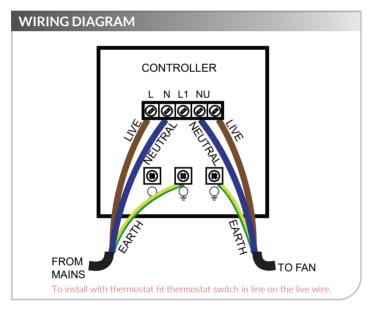




AIRIUS SPEED CONTROLLER 5 AMP









PLEASE NOTE: THIS CONTROLLER MUST BE EARTHED

info@airius.co.uk | www.airius.co.uk



Get In Touch

Call: <u>0845 6880112</u>





AIRIUS STVS1 SMART SPFFD CONTROLLER 5 AMP



Airius Model	10/S3	15/S2	25/S1	45	Onyx	50	60	G400
No. of Units	74	57	35	21	15	15	7	5

MOUNTING

The controllers are to be mounted on a smooth surface. Connect voltage supply, motor(s) and earth as shown in the scheme with cables of the proper diameter. On the mains side, a safety switch with recommend pre-fuses has to be installed.

TRANSPORT AND STOCK KEEPING

Avoid shocks and extreme conditions, stock in original packaging.

WARRANTY

Two years from delivery date against defects in manufacturing. Any modifications or alterations to the product relieve the manufacturer of all responsibility. The manufacturer bears no responsibility for any misprints or mistakes in this data, and modifications or improvements to the product can be made at any time after date of publication.

KEY FEATURES

- Analogue input signal (0-10 VDC) galvanically isolated
- TK monitoring for thermal motor protection
- 5 switching levels according to the input signal
- LED status indication
- +12 VDC output (e.g. as supply for MTP-X10K potentiometer from Sentera)

TECHNICAL DATA

Voltage: 230Vac - 50/60Hz

Weight: 5.5 kg IP54 IP Rating:

MAX AMPS

STR-1-50L22 5.0 (5* 20 mm) T-8,0 A-H

Enclosure: Plastic R-ABS, UL94-VO, grey RAL 7035 or sheet steel (RAL 7032, polyester powder coating).

Recommended prim. Fuse: ca 1,5 x trafo. Max ambient temperature: 35°C

The STVS1 series of transformer fan speed controllers regulate the rotational speed of single-phase voltage controllable motors in five steps by varying the output voltage according to an 0-10VDC analogue input signal. They are equipped with autotransformer(s) and feature TK monitoring for thermal motor protection.

MAINTENANCE

In normal conditions the controllers are maintenance-free. If soiled clean with dry or dampish cloth. In case of heavy pollution clean with a non-aggressive product. In these circumstances the controller should be disconnected from the mains. Pay attention that no fluids enter the controller. Only reconnect the controller to the mains when it is completely dry.

MOTOR PROTECTION

It is always recommended to install a proper motor protection

All works may only be carried out by skilled personnel following the local regulations and AFTER the controller is completely separated from the mains. Replace fuse only with same type and

According to the low voltage directive: 2006/95/EC/ The EMC directive: 2004/108/EC







MOTOR DATA

Control signal input:	0-10 VDC
Output:	12 VDC / Imax 50 mA
Unregulated output:	230 VAC (max. 2 A)
Switching levels	Switching levels
Up:	2; 4; 6; 8; 9,5 VDC
Down:	Up level — 0,2 VDC
Max. Rel. humidity:	5–95 % rH (non-condensing)

info@airius.co.uk | www.airius.co.uk

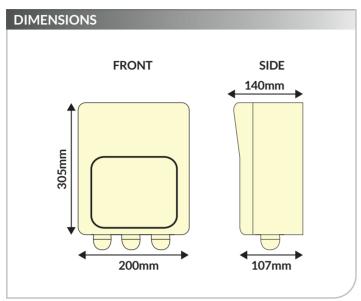
Get In Touch

Call: 0845 6880112

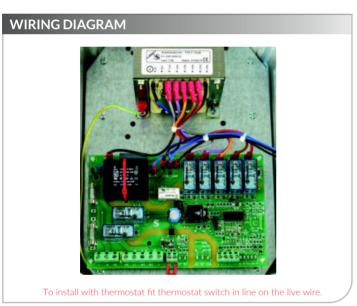


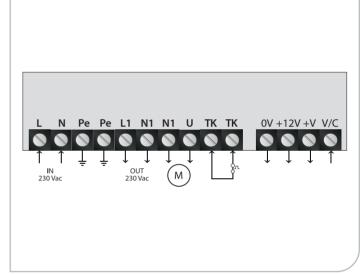


AIRIUS STVS1 SMART SPEED CONTROLLER 5 AMP









PLEASE NOTE: THIS CONTROLLER MUST BE EARTHED

VOLTAGE							
0–10 VDC or external potentiometer positions (MTVor MTP)*	0	-	1	2	3	4	5
Wires	_	-	_			_	_
				Regu	ılated (Output	(VAC)
Voltages**	0	80***	110	140	170	190	230
				Unregu	ılated (Output	(VAC)
L1	0	230	230	230	230	230	230

- * See the operational diagram on the next page for the corresponding voltages.

 ** If more than 5 output voltages are available, adjust the 5 steps by changing the internal wiring.

 *** Available but not connected.

WIRING & CONNECTIONS

L	Power supply, phase (230 VAC / 50–60 Hz)
Ν	Power supply, neutral
Pe	Earth terminal
L1	Unregulated output, line
N1	Unregulated output, neutral
U	Regulated output to motor, line
TK	Input - TK monitoring for thermal motor protection
OV	Ground
+12V	Output 12 VDC / Imax 50 mA
+V*	Digital output 12 VDC / Imax 50 mA (0 VDC = TK fault;
TV	12 VDC = normal operation)
V/C	Input U: 0-10 VDC

info@airius.co.uk | www.airius.co.uk



Get In Touch

Call: <u>0845 6880112</u>





Airius Europe, Middle East & Asia

Airius Europe Ltd Holwell Farm, Cranborne Dorset BH21 5QP, UK Tel - +44 (0) 1202 554200 Fax - +44 (0) 1202 554396 Email - info@airius.co.uk Web - www.airius.co.uk

Airius Americas

811 South Sherman Street Longmont Colorado 80501 USA Tel - (00) 1 888 247 7327 Email - Info@airiusfans.com Web - www.airiusfans.com

Airius Oceania & S.E. Asia

P.O. Box 1812 Byron Bay NSW 2481 AUSTRALIA Tel - +61 (2) 6608 2736 Email - info@airius.com.au Web - www.airius.com.au

USA and foreign Patents granted to AIRIUS LLC, USA, further patents pending. AIRIUS & AIRIUS SYSTEMS is the copyright property of AIRIUS LLC, USA. All material issued by, or emanating from, Airius Europe Ltd is the Copyright property of Airius Europe Ltd, UK.







