Lo-Carbon
SOLO Plus
Centrifugal
Bathroom/Toilet Fan

Installation and Wiring Instructions

Stock Ref. N°
427481B (P)
427482B (T)
427483B (HT)
427484B (TM)

220-240V~50Hz

Vent-Axia

PLEASE READ INSTRUCTIONS IN CONJUNCTION WITH THE ILLUSTRATIONS.
PLEASE SAVE THESE INSTRUCTIONS

T IPX4
Installation and Wiring Instructions for the SOLO Plus Bathroom Extract Fan.

**IMPORTANT:**
READ THESE INSTRUCTIONS BEFORE COMMENCING THE INSTALLATION

DO NOT install this product in areas where the following may be present or occur:
- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures higher than 40 °C or less than –5 °C.
- Possible obstructions which would hinder the access or removal of the Fan.

**SAFETY AND GUIDANCE NOTES**

A. All wiring to be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country and **MUST** be installed by a suitably qualified person.

B. The Fan should be provided with a local isolator switch capable of disconnecting all poles, having a contact separation of at least 3mm.

C. Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.

D. The Fan should only be used in conjunction with the appropriate Vent-Axia products.

E. It is recommended that the connection to the fan connector terminals is made with flexible cable.

F. When the Fan is used to remove air from a room containing a fuel-burning appliance, ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.

G. The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.

H. Where ducted Fans are used to handle moisture-laden air, a condensation trap should be fitted. Horizontal ducts should be arranged to slope slightly downwards away from the Fan.
I. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

J. Young children should be supervised to ensure that they do not play with the appliance.

K. Fans used for tropical climates.

DESCRIPTION
As standard, the SOLO Plus is suitable for panel/wall installations, flush or surface mounting, either in a horizontal or vertical plane. 100mm ducting (flexible or straight) can be attached using the supplied adjustable spigot, providing rear or side exit options. Adaptors for System 25 and System 50 ducting can be used in conjunction with the adjustable spigot. For wall installations a Wall Kit (25 41 02 White / 25 41 00 Brown) can be used. An optional filter is also available (449265). Please see our catalogue or web site (www.vent-axia.com) for more information on System 25/50 and for alternative ducting and termination options.

A. INSTALLATION

PANEL MOUNTING (Surface)
1. Cut a 105mmØ hole through the panel, ensuring that there is sufficient space for the product to be installed and that the filter can be removed for maintenance.
2. Removing the grille, firstly remove the front cover by carefully pulling each corner of the front panel until it is free to be removed from the inner grille (Fig 1). Unscrew the two screws at the bottom of the inner grille. The screws will remain in the inner grille but will be loose when the grille is ready to be removed (Fig 1). Lift the inner grille from the bottom edge ensuring not to damage the sensor cable (TM model only) attached to the front assembly and Base Housing (Fig 6).
3. Remove the Spigot Ring from inside the carton and clip over the Spigot Adaptor making sure the lip on the Spigot Ring locates firmly inside the groove on the Spigot Adaptor (Fig 2). Ensure that the Spigot Adaptor is firmly located onto the Base Housing and the shutter is still securely fastened and fully functional.
4. Set-up the appropriate speed selection and other features as outlined in Section B SETUP.
5. Attach the ducting to the Spigot and locate into the hole in the panel ensuring the Skirt is located correctly into the Base Housing. Secure into position using appropriate fixtures (Fig 3).
6. Ensure the Impeller rotates freely.
7. Select and follow the appropriate wiring diagram in Section C WIRING.
8. Replace the inner grille ensuring that the PIR sensor cable (TM model only) is reconnected to the PIR sensor PCB (Fig 6). Replace the front panel.
9. Switch the mains power supply on and check the fan is operating correctly.

PANEL MOUNTING (Flush)
1. Mark and cut a rectangular hole (190mm x 240mm) through the panel, ensuring that there is sufficient space for the product to be installed and that the filter (if fitted) can be removed for maintenance. IMPORTANT: Be careful to avoid joists and hidden cables.
2. Removing the grille, firstly remove the front cover by carefully pulling each corner of the front panel until it is free to be removed from the inner grille (Fig 1). Unscrew the two screws at the bottom of the inner grille. The screws will remain in the inner grille but will be loose when the grille is ready to be removed (Fig 1). Lift the inner grille from the bottom edge ensuring not to damage the sensor cable (TM model only) attached to the front assembly and Base Housing (Fig 6).
3. Remove the Spigot Ring from inside the carton and clip over the Spigot Adaptor, making sure the lip on the Spigot Ring locates firmly inside the groove on the Spigot Adaptor (Fig 2). The Spigot can be repositioned for side exit installations by removing the screw and sliding the spigot away from the rear of the Base Housing, carefully observing the guide rails (Fig 4). The Spigot can then be rotated and repositioned for side exit using the same guide rails and retaining screw (Fig 4). Ensure that the Spigot Adaptor is firmly located onto the Base Housing in the required orientation and the shutter is still securely fastened and fully functional.
4. Remove the Skirt and pass the supplied screw fully through the flange of the base housing. Then attach the 3 supplied Panel Clips (Fig 5). and partially screw into place until they are properly retained (allowing enough gap for the panel thickness).

5. Set-up the appropriate speed selection and other features as outlined in Section B SETUP.

6. Attach the ducting to the Spigot and locate into the hole in the panel, ensuring the cable is fed into the Base Housing and the Panel Clips spring out behind the panel.

7. Secure into position by carefully tightening the Panel Clips. It maybe necessary to hold the product centrally in the hole while tightening so that no gaps are seen once the cover is on. IMPORTANT: If power tools are used, set them to the minimum torque setting or preferably use a manual screwdriver. Do not over tighten.

8. Ensure the Impeller rotates freely.

9. Select and follow the appropriate wiring diagram in Section C WIRING.

10. Replace the inner grille ensuring that the PIR sensor cable (TM model only) is reconnected to the PIR sensor PCB (Fig 6). Replace the front panel.

11. Switch the mains power supply on and check the fan is operating correctly.

WALL MOUNTING (Surface) For wall installations a Wall Kit (25 41 02 White / 25 41 00 Brown) can be used.

1. Cut a 115mm. ∅ hole through the wall, ensuring that there is sufficient space for the product to be installed and that the filter (if fitted) can be removed for maintenance.

2. Insert the wall sleeve with the smaller diameter sleeve on the room-side and cement both ends into position flush with the wall faces. The wall sleeve should be angled downwards, away from the fan, to allow any condensation to drain to the outside wall.

3. Outside Grille: Using the Back Plate as a template, mark the fixing hole centres on the wall. Drill and plug the wall and fix the Back Plate into position.

4. Fix the Outside Grille on to the Back Plate (screws provided). Ensure the louvres are pointing downwards.

5. Removing the grille, Firstly remove the front cover by carefully pulling each corner of the front panel until it is free to be removed from the inner grille (Fig 1). Unscrew the two screws at the bottom of the inner grille. The screws will remain in the inner grille but will be loose when the grille is ready to be removed (Fig 1). Lift the inner grille from the bottom edge ensuring not to damage the sensor cable (TM model only) attached to the front assembly and Base Housing (Fig 6).

6. Remove the Spigot Ring from inside the carton and clip over the Spigot Adaptor making sure the lip on the Spigot Ring locates firmly inside the groove on the Spigot Adaptor (Fig 2). Ensure that the Spigot Adaptor is firmly located onto the Base Housing and the shutter is still securely fastened and fully functional.

7. Set-up the appropriate speed selection and other features as outlined in Section B SETUP.

8. Using the Base Housing as a template, mark the fixing hole centres on the wall, carefully sliding the spigot into the Wall Liner. Secure the Base Housing into position using the screws and fixings provided ensuring the Skirt is located correctly into the Base Housing (Fig 3).

9. Ensure the Impeller rotates freely.

10. Select and follow the appropriate wiring diagram in Section C WIRING.

11. Replace the inner grille ensuring that the PIR sensor cable (TM model only) is reconnected to the PIR sensor PCB (Fig 6). Replace the front panel.

12. Switch the mains power supply on and check the fan is operating correctly.

B. SETUP

**WARNING:** THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

**IMPORTANT**

On first power up, the fan will run through its initialization routine.
On T, HT & TM models the fan will switch on and off during this routine (Including the LED)
Once complete after approximately 2 minutes, the fan will run as normal.

1. SELECTING THE CONSTANT TRICKLE OPTION - Switch dip switch 2 into the ON position to activate the constant trickle operation. To disable the constant trickle option, move dip switch 2 into the OFF position (Fig 7).

2. SELECTING THE TRICKLE SPEED (if enabled)
This will determine the speed at which the fan will run continuously if the constant trickle speed option is enabled (1 above).
- Low trickle speed – Switch dip switch 1 into the OFF position (Fig 7).
- High trickle speed – Switch dip switch 1 into the ON position (Fig 7).

3. SELECTING THE INSTALLATION RUNNING MODE
This will determine the speed at which the fan will run when activated by either the Pull-cord/LS line/Humidity/PIR.
- Wall mode – Switch dip switch 3 into the OFF position (Fig 7)
- Ducted mode – Switch dip switch 3 into the ON position (Fig 7)
4. SELECTING THE DELAY-ON OPTION (T and HT models) - Switch dip switch 4 into the ON position to activate the delay-on feature. This will prevent the fan from going to boost for approximately 2 minutes. If the Switch Live is disconnected (switched off) within this period the fan will not boost. If the Switch Live is still active after the period the fan will boost. (Fig 7).

5. TIMER ADJUSTMENT (T, HT, TM models)
   The overrun time period is factory set to 15 minutes. The overrun time period may be adjusted from 5-30 minutes by altering the adjuster on the control PCB [T] (Fig 7).
   i. To REDUCE the operating time, turn the adjuster [T] ANTI-CLOCKWISE (Fig 7).
   ii. To INCREASE the operating time, turn the adjuster [T] CLOCKWISE (Fig 7).

5. HUMIDITY ADJUSTMENT (HT model)
   The fan’s Humidity Set-Point is factory set to switch the fan on at 72%RH (Fig 7).
   i. To LOWER the Set-Point, turn the Humidity Adjuster [H] ANTI-CLOCKWISE. This makes the fan more sensitive to RH%, i.e. the fan will come on at a lower RH% (Fig 7).
   ii. To RAISE the Set-Point, turn the Humidity Adjuster [H] CLOCKWISE. This makes the fan less sensitive to RH%, i.e. the fan will come on at a higher RH% (Fig 7).

C. WIRING.

WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

1. Select and follow the appropriate wiring diagrams (Fig 8-9)
2. It may be necessary to feed the mains cable around between the outside of the Base Housing and the Skirt to prevent the cable from being trapped.
3. Check all connections have been made correctly and ensure all terminal connections and cable clamps are securely fastened.
4. Ensure the impeller rotates and is free from obstructions.

D. SERVICING AND MAINTENANCE.

WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE.

1. At intervals appropriate to the installation, the fan should be inspected and if required cleaned to ensure there is no build-up of dirt or other deposits.
2. If a filter is fitted, remove the filter and wash in warm soapy water.
3. Wipe the inlets and front face with a damp cloth until clean.
4. Once the filter is dry it can be replaced.
   The fan has sealed for life bearings, which do not require lubrication.
To remove the cover on TM models the sensor lead must be disconnected.
Fig. 7. Settings
Fig. 8. P/TM wiring diagram

**LED position**

**Timer adjuster (T/HT/TM Models)**
To reduce time
Turn anti-clockwise.
To increase time
Turn Clockwise.

**Humidity adjuster (HT Model)**
To LOWER the set-point
Turn Anti-clockwise.
To RAISE the set-point
Turn clockwise.

**Dip switch settings**

1 = Trickle speed
2 = Constant trickle on or off
3 = Wall or Duct mode
4 = Delay-On timer on or off (Not on TM model)

**IMPORTANT**
On first power up, the fan will run through its initialization routine.
On T, HT & TM models the fan will switch on and off during this routine (Including the LED)
Once complete after approximately 2 minutes, the fan will run as normal.

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Cable clamp must be used with surface wiring.

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(220-240V 50Hz)~
Fig. 9. T/HT wiring diagram
For Residential Ventilation Units (Complying Commission Delegated Regulation (EU) No 1254/2014)

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The **Vent-Axia** Guarantee

Applicable only to products installed and used in the United Kingdom. For details of guarantee outside the United Kingdom contact your local supplier.

Vent-Axia guarantees its products for two years from date of purchase against faulty material or workmanship. In the event of any part being found to be defective, the product will be repaired, or at the Company’s option replaced, without charge, provided that the product:-

- Has been installed and used in accordance with the instructions given with each unit.
- Has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit).
- Has not been subjected to misuse, neglect or damage.
- Has not been modified or repaired by any person not authorised by the company.

**IF CLAIMING UNDER TERMS OF GUARANTEE**

Please return the complete product, carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit. Please ensure that it is adequately packed and accompanied by a letter clearly marked “Guarantee Claim” stating the nature of the fault and providing evidence of date and source of purchase.

The guarantee is offered to you as an extra benefit, and does not effect your legal rights.

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**Vent-Axia**

Head Office: Fleming Way, Crawley, West Sussex, RH10 9YX.

UK NATIONAL CALL CENTRE, Newton Road, Crawley, West Sussex, RH10 9JA
SALES ENQUIRIES: Tel: 0844 8560590  Fax: 01293 565169
TECHNICAL SUPPORT: Tel: 0844 8560595  Fax: 01293 539209

For details of the warranty and returns procedure please refer to www.vent-axia.com or write to Vent-Axia Ltd, Fleming Way, Crawley, RH10 9YX

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