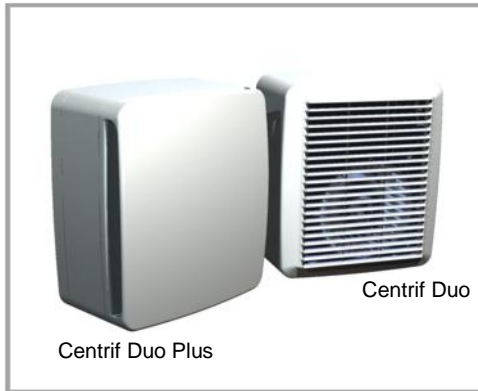


Centrif Duo & Centrif Duo Plus

Installation and Wiring Instructions
For surface mounted models



Stock Ref. N°

Centrif Duo P 25 61 20E
Centrif Duo T 25 62 20E
Centrif Duo DP 25 63 20E
Centrif Duo HTP 25 64 20E

Centrif Duo Plus P 43 16 13C
Centrif Duo Plus T 43 16 14C
Centrif Duo Plus DP 43 16 15C
Centrif Duo Plus HTP 43 16 16C

220-240V~50Hz

Vent-Axia®

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



Centrif Duo and Centrif Duo Plus

Features	P	T	DP	HTP
Surface mountable only	•	•	•	•
Washable filter (available separately for Centrif Duo Plus)	•	•	•	•
Pullcord	•		•	•
Trickle speed	•	•	•	•
LS connection (to boost from a remote switch from off or trickle speed).	•	•	•	•
Two boost speed options available (selectable during installation)	•	•	•	•
Adjustable timer overrun (1-30 mins approx)		•		•
Adjustable humidity sensor (default 75%RH approx)				•

Installation and wiring instructions for the Centrif Duo and Centrif Duo Plus extract fans.



**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. Precautions must be taken to avoid the backflow of gases into the room from the open flue of gas or other fuel burning appliances
- H. The fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.
- I. 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.
- J. 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.
- K. Children should be supervised to ensure that they do not play with the appliance.

DESCRIPTION

As standard, the Centrif Duo and Centrif Duo Plus are suitable for panel/wall installations, surface mounting, either in a horizontal or vertical plane. Ø100mm ducting (flexible or rigid) can be attached providing rear exit as standard. Adaptors for rectangular ducting can be used. For wall installations a Wall Kit (25 41 02 White / 25 41 00 Brown) can be used. Please see our catalogue or web site (www.vent-axia.com) for more information on ducting and termination options.

A. INSTALLATION

A Backdraught Shutter Assembly is supplied. It is packed inside the product during transport. It is designed to block the duct when the fan is off in order to prevent cold draughts from outside entering the building. To use it, push it on to the end of the exhaust Spigot (*fig. 1*) with the hinges on the flaps vertical. It is not required when the fan is set up to run continuously.

SURFACE MOUNTING (PANEL/CEILING)

1. Remove the Front Cover Assembly by slackening the two screws by two turns (*fig.2.*) Lift the front assembly away from the bottom edge first, then the top edge.
2. Cut a $\varnothing 105$ mm hole, then suitable screw holes in the panel, ensuring that there is sufficient space for the product to be installed and that the filter (sold separately for the Centrif Duo Plus) can be removed for maintenance. Either the cardboard fitment or the fan chassis can be used as a template.
3. Set-up the appropriate speed selection and other features as outlined in **Section B SETUP.**
4. Remove the terminal Block/pcb Cover. (*fig 3*).
5. Attach the ducting to the Spigot and locate the fan into the hole in the panel. Feed the wiring through the hole in the Chassis next to the Terminal Block as you do so. (*fig. 4*)
6. Secure into position using appropriate fixtures.
7. Select and follow the appropriate wiring diagram in **Section C WIRING.**
8. Replace the terminal Block/pcb Cover over the Terminal Block (*fig.3*).
9. Ensure the Impeller rotates freely (*fig.3*).
10. Replace the Front Cover Assembly and tighten the two screws (*fig.2.*).
11. Make sure that the covers and grommet are correctly fitted to ensure the optimum performance and water ingress protection of the fan.
12. Switch the mains power supply on and check the fan is operating correctly.

SURFACE MOUNTING (WALL)

For through-the-wall installations, a Wall Kit (25 41 02 White / 25 41 00 Brown) can be used.

1. Remove the Front Cover Assembly by slackening the two screws by two turns (*fig.2.*) Lift the Front Cover Assembly away from the bottom edge first, then the top edge.
2. Cut a $\varnothing 115$ mm 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.
3. Insert the wall sleeve with the larger diameter sleeve on the room-side and cement the 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.
4. Outside Grille: Using the Grille's back plate as a template, mark the fixing hole centres on the wall. Drill and plug the wall and fix the Grille into position. Ensure the louvres are pointing downwards.
5. Set-up the appropriate speed selection and other features as outlined in **Section B SETUP.**
6. Remove the terminal block/pcb Cover. (*fig 3*).
7. Using the fan chassis as a template, carefully sliding the Spigot into the Wall Liner, mark the fixing hole centres on the wall. Alternatively, the cardboard fitment can be used as a template.
8. Drill and plug the wall using the fixings provided.
9. Feed the wiring through the hole near the Terminal Block and secure the fan into position using the screws provided.
10. Select and follow the appropriate wiring diagram in **Section C WIRING.**
11. Replace the terminal block/pcb Cover (*fig.4*).
12. Ensure the Impeller (*fig.3*) rotates freely.
13. Replace the Front Cover Assembly and tighten the two screws (*fig.2*).
14. Make sure that the covers and grommet are correctly fitted to ensure the optimum performance and water ingress protection of the fan.
15. 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 INSTALLATION OR MAINTENANCE.

TO ACCESS THE SPEED CONTROLS/PCB, REMOVE THE 2 SCREWS HOLDING THE PCB COVER IN PLACE (SEE FIG 3).

1. SELECTING THE CONSTANT TRICKLE (with Boost) OPTION

All models have the ability to have a constant trickle speed with an option to boost if required. To enable constant trickle, please refer to fig 7 and below:

- i) **P model:** Link terminals 5 and 6.
- ii) **DP model:** Pull pullcord until in the trickle speed has been selected. If you want to just use the LS to switch the DP model between trickle and boost, first set the fan running to trickle speed with the pull cord, then remove the pull cord string.
- iii) **T and HTP models:** Move dip switch 4 into the ON position.

2. SELECTING THE BOOST SPEED.

All models can boost to a higher speed via LS connection or Pullcord (pullcord not available on T model). The HTP model can boost to different speeds for Timer (LS) and Automatic Humidistat functions.

- i) P Model: Link terminal 4 to one of the following:
 - a. Terminal 1 = Low speed (same as trickle speed)
 - b. Terminal 2 = Medium (Utility) speed
 - c. Terminal 3 = High (Kitchen) speed
- ii) DP model: Link terminal 3 to one of the following:
 - a. Terminal 1 = Medium (Utility) speed
 - b. Terminal 2 = High (Kitchen) speed
- iii) T model: Move one of the following dip switches into the ON position.
 - a. Dip switch 1 = Low speed (same as trickle speed)
 - b. Dip switch 2 = Medium (Utility) speed
 - c. Dip switch 3 = High (Kitchen) speed
- iv) HTP model: The HTP model has two boost speed options, one speed option for the Timer function (via LS) or pullcord and another speed selection for the Humidistat function. Move one dip switch into the ON position for LS/pullcord and one for Humidity speed selection. It is recommended for both Kitchen and Utility room installations to set the Humidity Boost speed to Medium (utility). This will ensure the room is kept dry but reduce the noise from the fan.
 - a. Dip switch 5 = Humidity Boost Low speed (same as trickle speed)
 - b. Dip switch 6 = Humidity Boost Medium (Utility) speed
 - c. Dip switch 7 = Humidity Boost High (Kitchen) speed
 - d. Dip switch 1 = LS/Pullcord Boost Low speed (same as trickle speed)
 - e. Dip switch 2 = LS/Pullcord Boost Medium (Utility) speed
 - f. Dip switch 3 = LS/Pullcord Boost High (Kitchen)

3. TIMER ADJUSTMENT (T and HTP models only)

The overrun time period is factory set to about 15 minutes. The overrun time period may be adjusted from about 1-30 minutes by altering the lower adjuster of the two on the control PCB (fig.4 & 7).

- i. To REDUCE the operating time, turn the timer adjuster ANTI-CLOCKWISE.
- ii. To INCREASE the operating time, turn the timer adjuster CLOCKWISE.

4. RELATIVE HUMIDITY ADJUSTMENT (HTP model only)

NOTE:- On installation it is possible that the humidity controller will run continuously until it has acclimatized to the environment.

The fan's relative humidity (RH) set-point is factory set to switch the fan on at about 75%RH. This set point can be raised or lowered by altering the upper adjuster of the two on the PCB (*fig.4 & 7*).

- i. To LOWER the set-point, turn the humidity adjuster (*fig.4 & 7*) ANTI-CLOCKWISE. This makes the fan more sensitive to RH, i.e. the fan will come on at a lower RH.
- ii. To RAISE the set-point, turn the humidity adjuster (*fig.4 & 7*) CLOCKWISE. This makes the fan less sensitive to RH, i.e. the fan will come on at a higher RH.

The fan will continue to run at boost after the RH has dropped below the set point for the time period set by the timer adjustment (see 3. TIMER ADJUSTMENT, above)

C. WIRING.



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

Use 0.75mm² cable

1. Select and follow the appropriate wiring diagram (*fig. 9 or 10*).
2. Use the Cable Clamp and grommet provided (*fig.4*).
3. Check all connections have been made correctly and ensure all terminal connections are securely fastened.

D. SERVICING AND MAINTENANCE.



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

1. At intervals appropriate to the installation, the fan should be inspected and cleaned to ensure there is no build up of dirt or other deposits.
2. If fitted, remove the Filter and wash it and the front cover assembly in warm soapy water. Dry them before replacing.
3. Wipe the inlets and front face with a damp (not dripping wet) cloth until clean.
4. Replace the filter.
5. Turn the power to the fan back on.

The fan has sealed for life bearings, which do not require lubrication.

Fig.1.

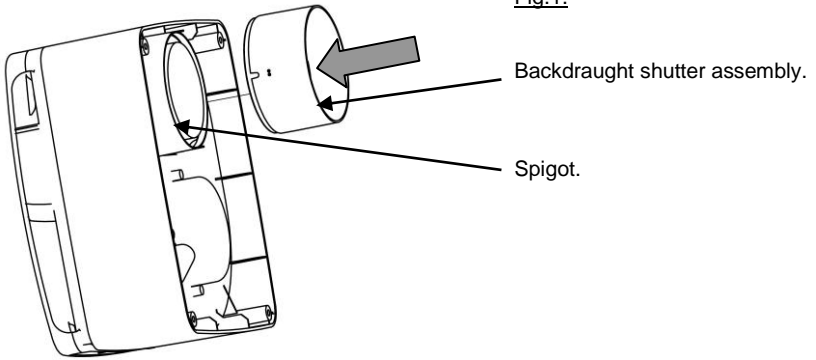
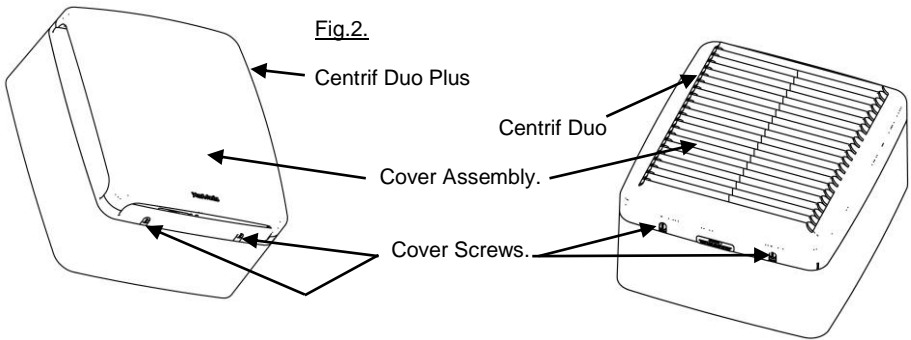


Fig.2.



Centrif Duo Plus shown

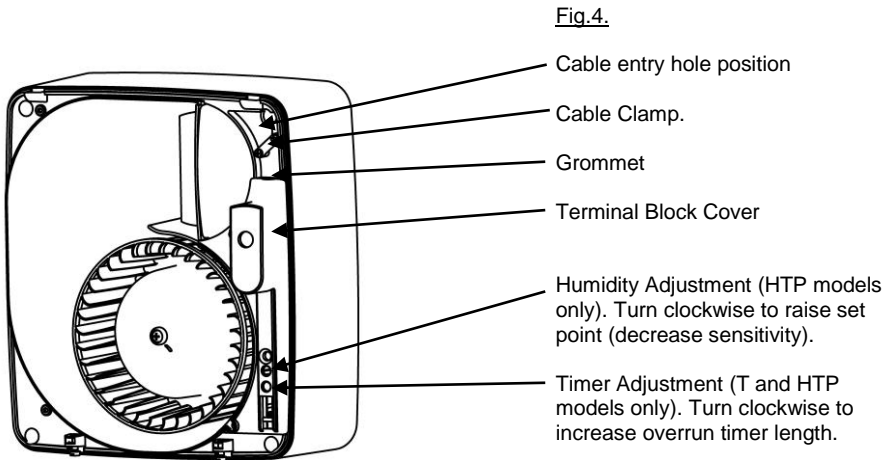
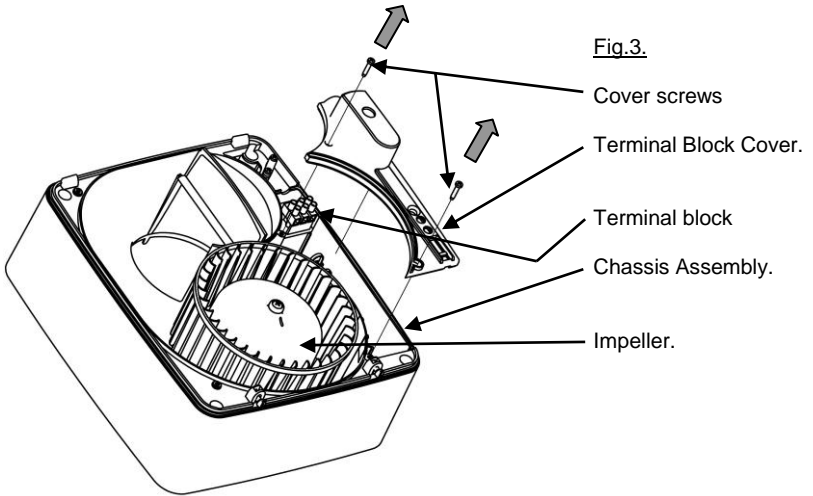


Fig 7. Setup

WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING INSTALLATION OR MAINTENANCE.
 TO ACCESS THE SPEED CONTROLS/PCB, REMOVE THE TWO SCREWS HOLDING THE PCB COVER IN PLACE.

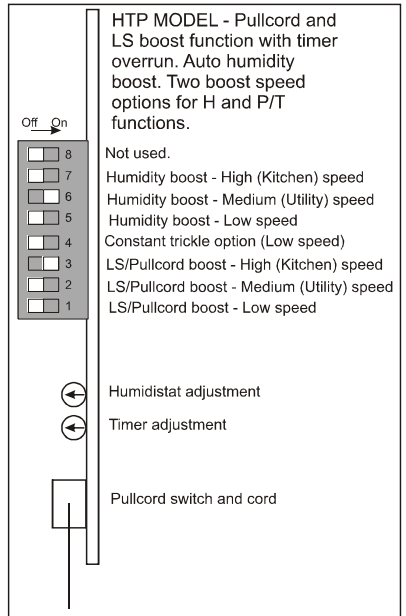
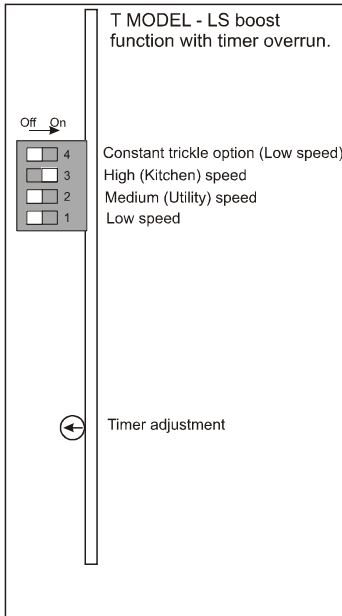
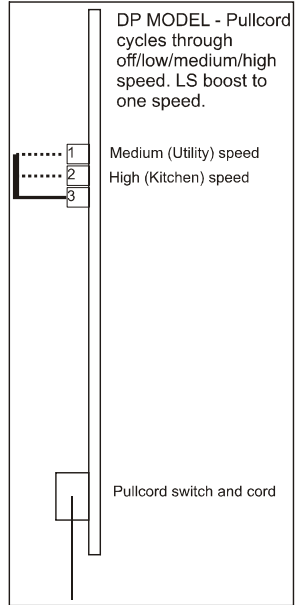
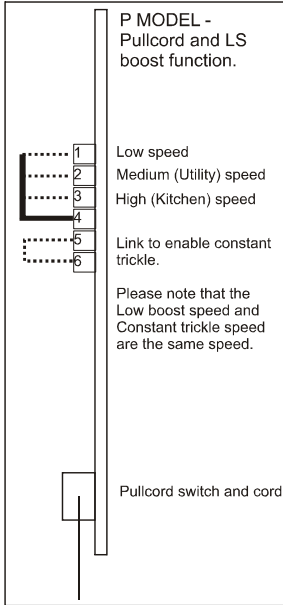
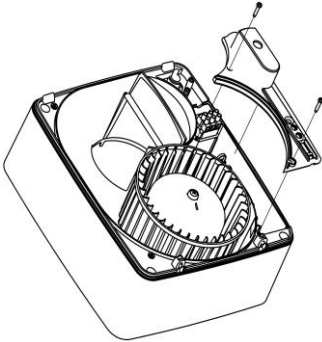


Fig 8. Siting of the fan.

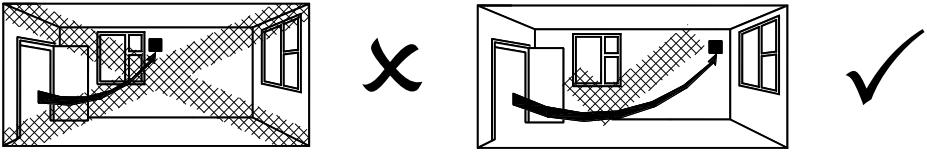


Fig 9. Wiring diagram without LS connection.

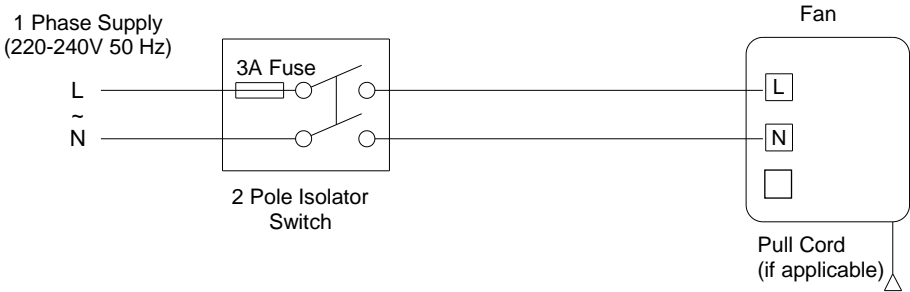
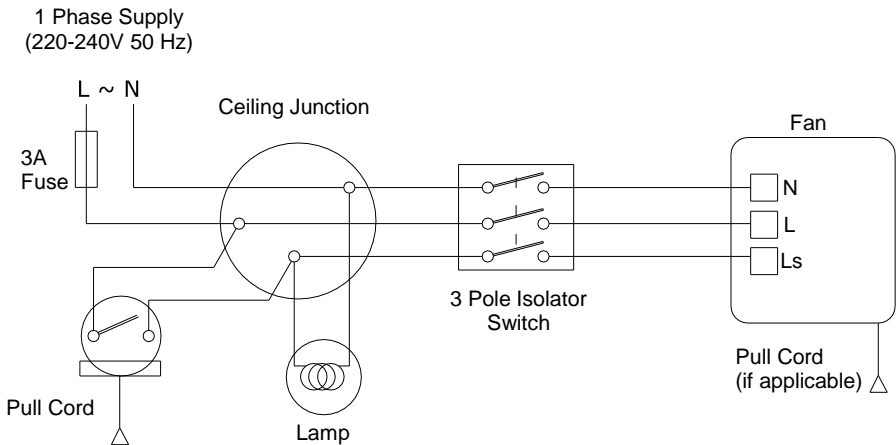


Fig 10. Wiring diagram with LS connection.



Other accessories, like pullcords, PIR sensors or humidistats, can be fitted in line with the mains live connection (L) in order to turn the fan on or off.

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

Vent-Axia

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As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.

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