

Guarantee:

Terms and Conditions for UK & ROI (outside UK & ROI contact your local distributor)

We, Applied Energy Products, guarantee this product against faulty workmanship and material defects for a period of 5 years from the date of purchase.

In the event of a product breakdown during the guarantee period, you should initially contact your installer, before contacting Applied Energy Products on the Technical line number below providing that:

- a) The appliance has been installed in a residential environment for domestic use only.
- b) The appliance has been correctly installed and commissioned in accordance with our instructions and is being used on the supply circuit or voltage printed on the rating plate.
- c) The appliance has been used in accordance with these instructions and has not been tampered with or otherwise subject to misuse, neglect or accident.
- d) The appliance has been regularly maintained in accordance with these instructions and the airway is unobstructed.
- e) The appliance has not been taken apart, modified or repaired except by a person authorised by us.
- f) Evidence of the date of purchase in the form of an invoice or receipt will be required in order to qualify under the terms of this guarantee.
- g) For the service work to be undertaken free of charge, the work must only be undertaken by Applied Energy Products Limited, or our approved agents.
- h) Service under guarantee has no effect on the expiry date. The guarantee on any exchanged parts or product ends when the original guarantee period ends.
- i) In the event of a product being returned to Applied Energy Products Limited and not found to be faulty, the product would be available for collection from the relevant premises within one month and if not collected it would be disposed of or delivered by Applied Energy Products Limited and a delivery charge made.

EXCLUSIONS

This guarantee does not cover damage or defects arising from poor or incorrect installation, improper use or lack of maintenance. It is the responsibility of the installer to check that the installation parameters meet the requirements of the product, and any relevant regulations.

If we are called out to a fault, which is subsequently identified as being an installation fault, we will make a charge. It is important that the routine checks are completed before calling us out, as many issues can be simply diagnosed and resolved.

We make no guarantees as to response times for repairs. We will endeavour to achieve the most timely response possible but while we indicate an average response time, this should not be taken as a guarantee.

The guarantee applies to a repair or replacement (at our discretion) of the product subject to the conditions above, and does not cover compensation for the loss of the product or consequential loss of any kind.

This guarantee does not affect your statutory rights.

Technical advice and service:

Customers outside the UK- see international below.

UK: Xpelair have a comprehensive range of services including:

- Free technical advice help-desk from engineers on all aspects of ventilation.
- Free design service, quotations and site surveys
- Service and maintenance contracts to suit all requirements.

Please ask for details:

- By telephone on Techline: +44(0)844 3727766
- By Fax on Techfax: +44(0)844 3727767
- At the address shown

International:

Guarantee: Contact your local distributor or Xpelair direct for details

Technical Advice and Service: Contact your local Xpelair distributor.



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Morley Way , Peterborough, PE2 9JJ
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www.applied-energy.com

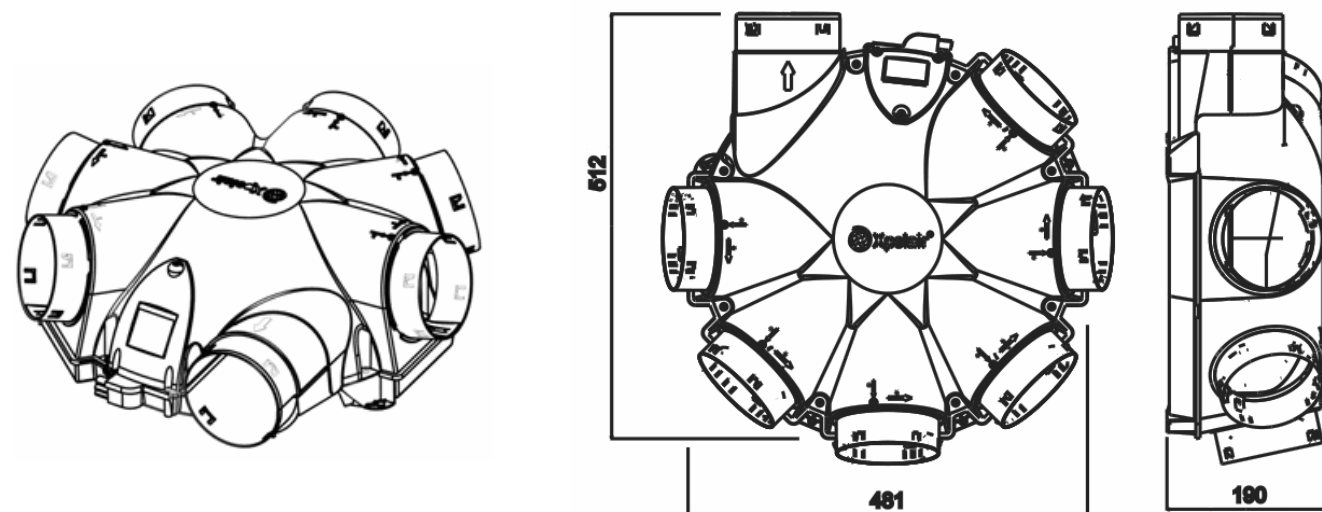
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Xplus 2-EC

Multi Point Ventilation Unit

Product Number: 92498AG



Information on Maintenance and Operation:

For the Householder:

Your home has been fitted with a highly energy efficient mechanical ventilation system. The system should consist of an Xplus 2-EC central mechanical extract fan, ducting, discharge grille and extract valves in the wet rooms, kitchen, bathroom and toilet. The correct working system will provide a healthy indoor atmosphere and will help eliminate condensation and unwanted odours.

The Xplus 2-EC system is (or can be) fitted with a 2 or 3 position switch. The high speed setting is a boost position for the extract of cooking smells or moisture-laden air when this is in use it is advisable to open window vents or a window to provide replacement air. The middle position would be the normal running position in a house with the low speed position as a background position if the house is not fully occupied. In a smaller dwelling or flat the low speed position could be the normal running position with the middle position as boost.

The fan is designed to run continuously 24 hours a day. It is fitted with one of the world's most energy efficient electronic motors.

Maintenance

In normal running conditions the fan attracts very little dirt. However it may be advisable to have the unit inspected by your installer annually and clean if necessary (Making sure that water does not get into the motor or electrical termination box).

Safety:

This appliance is not intended for use by persons (including children and the infirm) 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.

Children should be supervised to ensure that they do not play with the appliance.

CE-Conformity:

This unit meets all relevant CE standards.

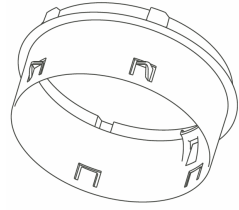
Characteristics:

The electric motor and fan are enclosed in the ventilator casing. Attached to the casing is up to 6-125mmØ extract spigots or blanking covers. Air is exhausted through 1 - Ø125mm spigot built into the casing.

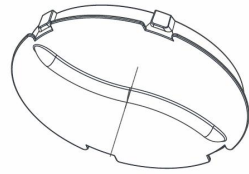
Ancillaries:

The following ancillaries and spares are available for the Xplus 2-EC product range:

92433AW: 125 mm Ø Spigot

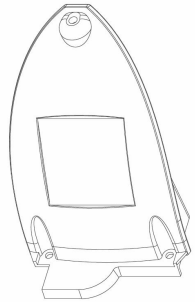


92435AW: Blanking Plate

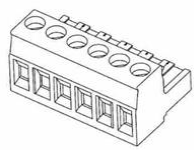


Spares:

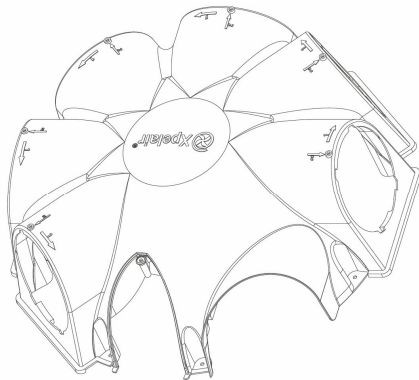
41983SK: Replacement electrical cover



41983SK: Replacement termination plug and screws



41987SK: Replacement Inlet Housing (Green)

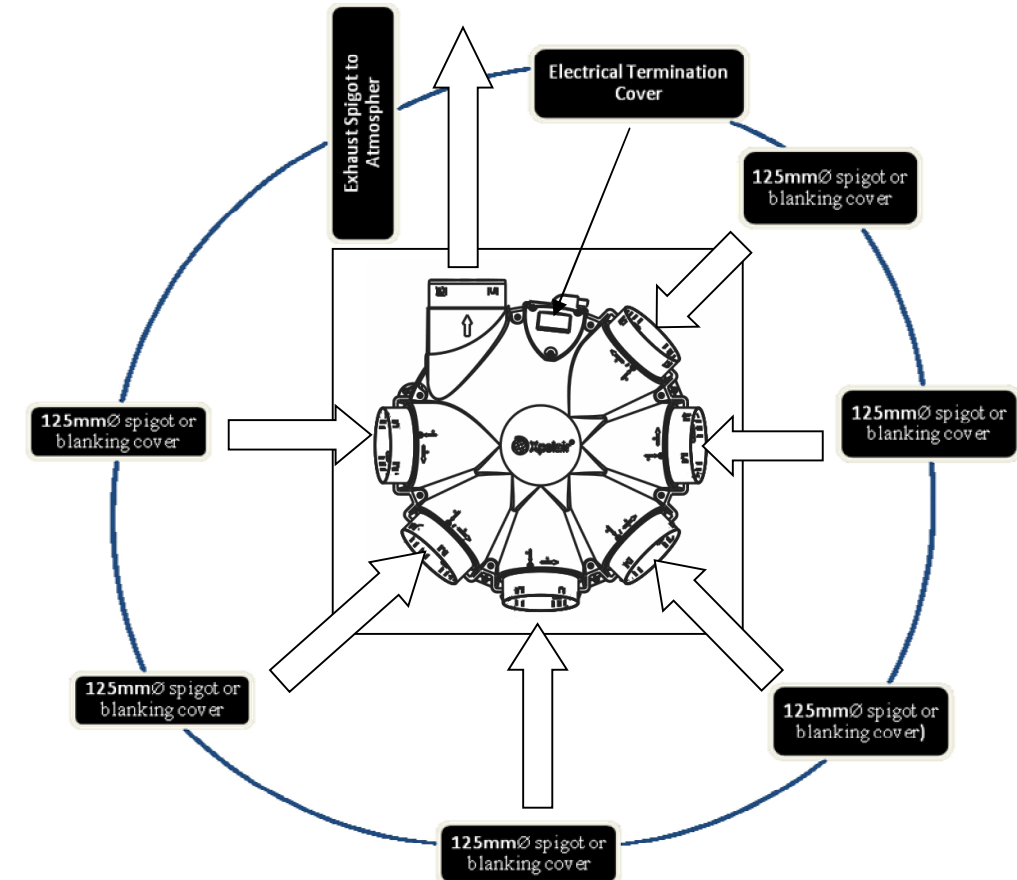


IMPORTANT:

**READ THESE INSTRUCTIONS BEFORE
COMMENSING THE INSTALLATION**

Setting up the Xplus 2-EC and planning the system layout:

Example installation:



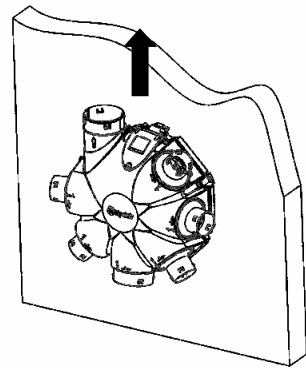
Installation:

The installation should aim to minimise resistance and prevent any leakage in the ducting. Where possible the use of flexible ducting should be minimised and should be connected using a short section of flexible ducting (no greater than 0.5 metres).

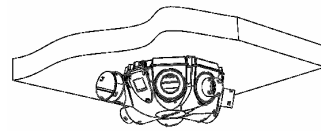
If installing in position where condensation is likely to run backwards into the fan you will need to use a suitable condensation trap or ensure the discharge ducting has a fall towards the external extract grille.

Orientation of the Unit:

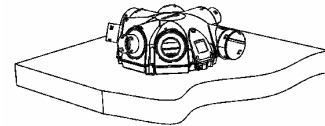
The unit is designed to be screwed down to a robust impermeable surface horizontally, vertically, or inverted as shown below.



In the vertical position:
The outlet must face vertically



Ceiling Mounted



Horizontal position (Recommended)

DO NOT install this product in areas where the following may be present or occur:

- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures are higher than 50 °C or less than -5 °C
- Possible obstructions which would hinder the access or removal of the Fan.
- This fan is rated to XP2

Position of air inlet grilles:

- As far as possible from and opposite to the main source of air replacement to ensure air flow across the room (e.g. opposite an internal doorway).
- Near the source of steam or odours.
- Not where ambient temperatures are likely to exceed 50°C, or above a cooker hob or eye level grille.
- If installing in a room containing a fuel burning device, it's the installer's responsibility to ensure that there is adequate replacement air to prevent fumes being drawn down the flue when the fan is operating.
- Exhaust air must not be discharged into the flue used for exhausting fumes from appliances supplied with energy other than electricity. Requirements of all authorities concerned must be observed for exhaust discharge.
- The inlet grilles should be situated at least 5.0 metres distance from the discharge outlet of a flued heating or cooking appliance.
- For guidance on installation please refer to Xpelair's online installation guide.

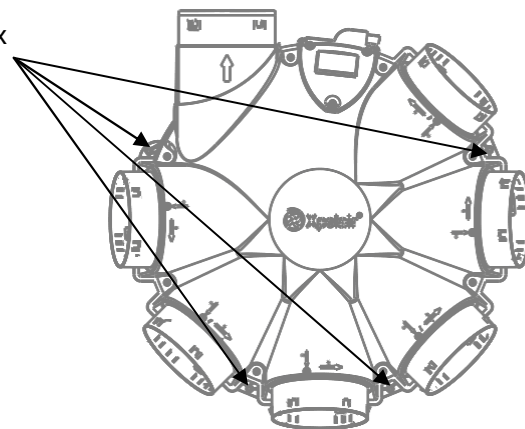
Position of the discharge grille atmosphere:

- At least 2.0 meters away from open door or window, or the inlet of another ventilation device.

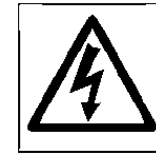
The fan must always be firmly fixed, ensure the Xplus 2 unit is installed by either of the two methods listed below:

Using suitable wood screws fixed through the corner of the ventilator box

Using threaded bolts =5mm with a head size =8mm

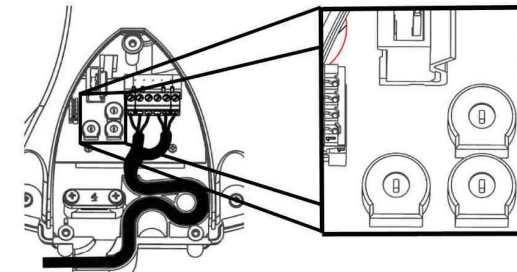


Commissioning and speed controlling the Xplus 2-EC System:



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

The Xplus 2-EC has infinite speed control, this will enable you to control the air flow of your Xplus 2-EC to your specific systems requirements, while maximising the Xplus 2-EC's energy efficiency



SL1: Speed Control

SL2: Speed Control

L: Trickle speed control



Step 10:

Switch off the mains electrical supply and remove all fuses before commencing.

Step 11:

Identify the correct speed controller for the speed you wish to adjust.

Step 12:

Using a small long handled screw driver, Adjust the speed control as required by turning the controller head. Turn clock wise to increase the speed Turn anti clock wise to decrease the speed.

Please note:

Trickle speed controller works from 0-50% of the total fan performance
SL1 speed controller works from 0-100% of the total fan performance
SL2 speed controller works from 0-100% of the total fan performance.

If the speed controls are turned fully anti clockwise the fan will not operate!

Step 13: Refit the electrical termination cover by replacing the 3 captive screws removed in step 2.

Step 14: Connect the cable from the isolating switch to the electrical supply wiring

Step 15: Refit fuse before turning on the electrical supply.

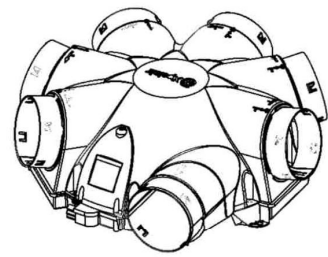
Power and control installation process:



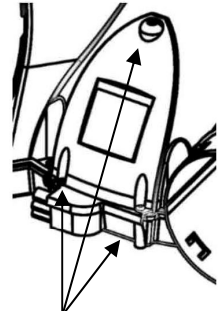
WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING INSTALLATION OR MAINTENANCE.

If you have any queries regarding the installation of this product please call the Technical Hotline +44(0)870900430. Our engineers are there to help during normal office hours (UK only) and maybe faxed at all times on +44(0)8709000530.

Customers outside the UK please contact your local Xpelair distributor, details of which are available from the UK office.



Step 1:
Locate the electrical cover

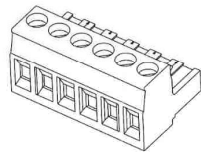
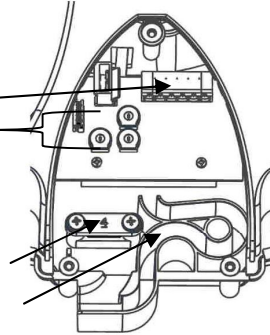


Step 2:
Open the electrical cover by removing the 3 captive screws

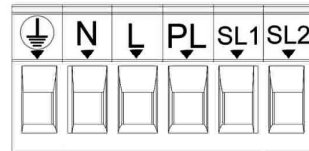
Step 3:

Identify the following features:

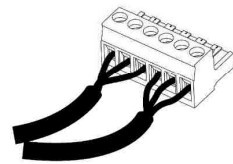
- PCB plug socket
- Trickle Speed Controller
- SL1 speed controller
- SL2 Speed controller
- Cable Clamp
- Cable Labyrinth



Step 4:
Locate the PCB termination plug (supplied in the product's box)

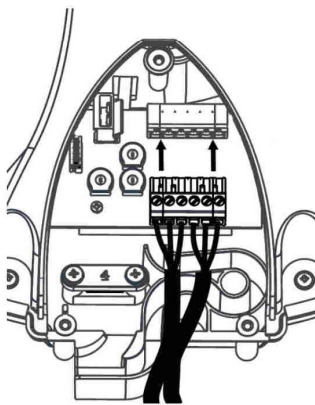


Step 5:
Identify the correct power and control connections for your Xplus 2-EC systems design.

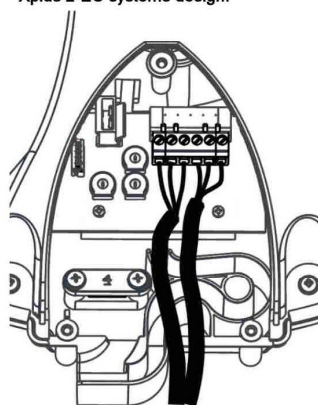


Step 6:

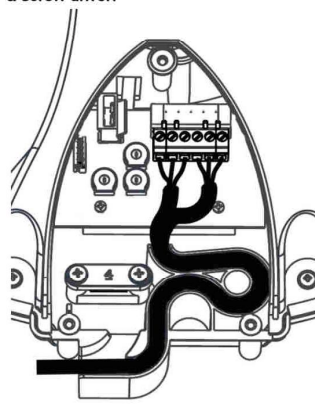
Connect the power and control wires to the PCB termination plug and fix with a screw driver.



Step 7:
Align the PCB termination plug with the PCB termination socket



Step 8:
Firmly connect the two sides of the plug.



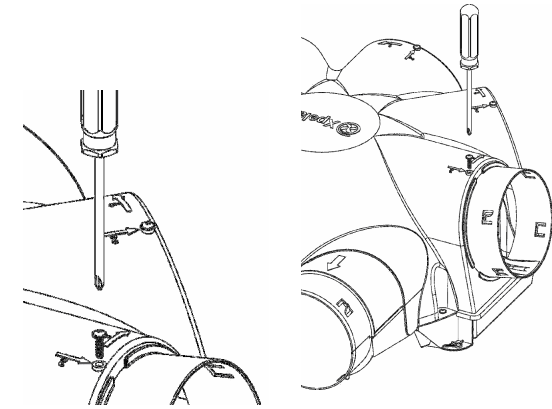
Step 9:

Use the appropriate method to fix the cables by either; Routing the cable through the labyrinth Fixing into position with the cable clamp

- Ensure the cable is securely fitted inside the entire length of the labyrinth.
- If you are using the cable clamp ensure the cable is an appropriate diameter to ensure a firm grip is achieved.

Connecting the Spigots and Ducting

- Select the spigot required to suit the ventilation requirements: (125mmØ spigot or blanking cover)
- Place a worm drive clip or cable tie over the flexible duct (not supplied).
- Fix the flexible ducting to the spigot by tightening the worm drive clip or cable tie (not provided).
- Align the four locating tabs on the spigot and insert the spigot into the unit.
- Once the spigot is flush with the unit turn the spigot clock wise until it locks firmly into position (approximately 30 degrees)
- Using the one of the screws provided lock the spigot into place and gently tighten the worm drive to create a good seal.
- If an extract spigot(s) is not required they should be blanked off with one of the blanking covers provided. The blanking cover should be fixed into position with a locking screw provided.



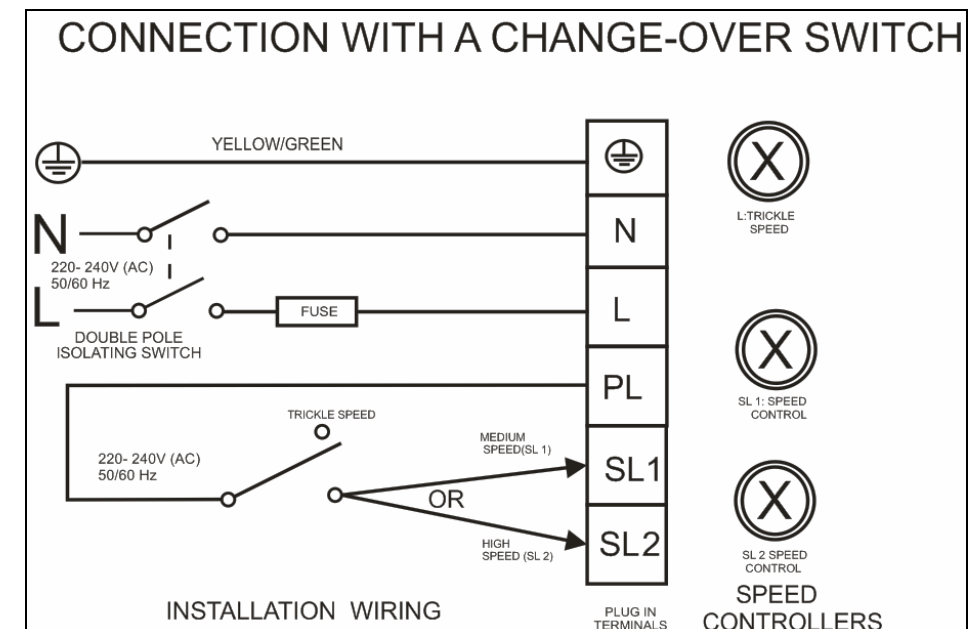
INSTALLATION WIRING AND CONTROL OPTIONS:

Important:

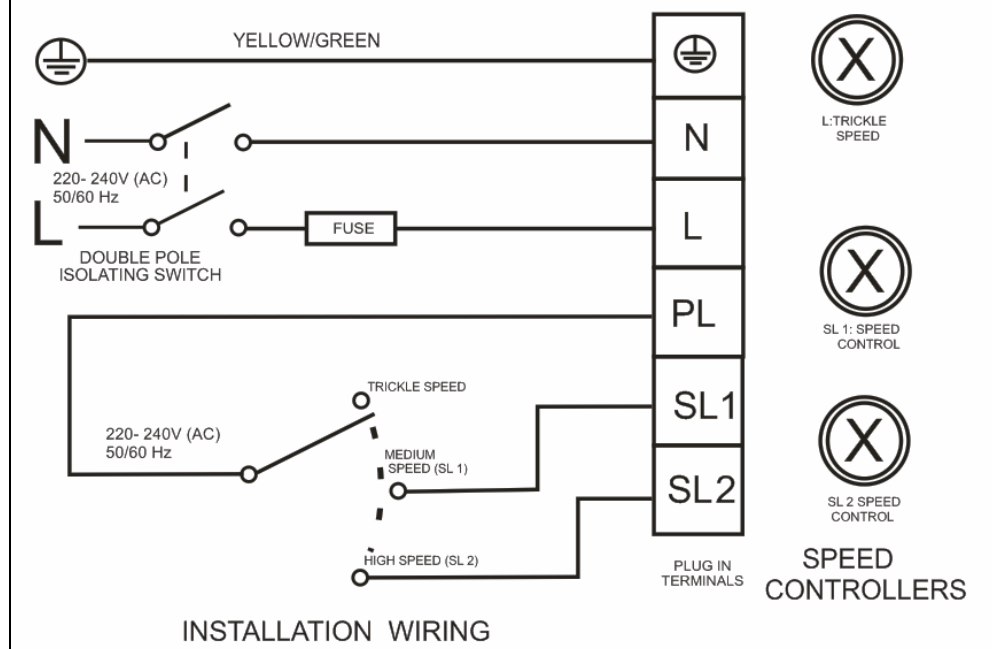
- Read all the instruction leaflet before commencing installation
- Ensure the mains supply is switched off before attempting to make electrical connections or carry out any maintenance or cleaning

Wiring Installations:

- All installations must be supervised by a qualified electrician.
- Installations and wiring must conform to current IEE regulations (UK), local or appropriate regulations (other countries).
- A means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Check that the electrical rating shown on the fan matches the mains supply.
- **WARNING: THIS APPLIANCE MUST BE EARTHED.**
- This appliance is intended for connection to fixed wiring.



CONNECTION WITH A 3 POSITION SWITCH



Switches and controller options:



Change Over Switch COS
Ref. 90108AW

Manual Override Switch MOS
Ref. 90199AW

Passive Infrared Sensor XPIRA
Ref. 21871AA



Remote Humidistat XRH
Ref. 21856AW

Time delay unit DT20B
Ref. 21850AW

Air Quality Sensor AQS
Ref. 92097AW

Three speed selector switch
Ref. 91266AW

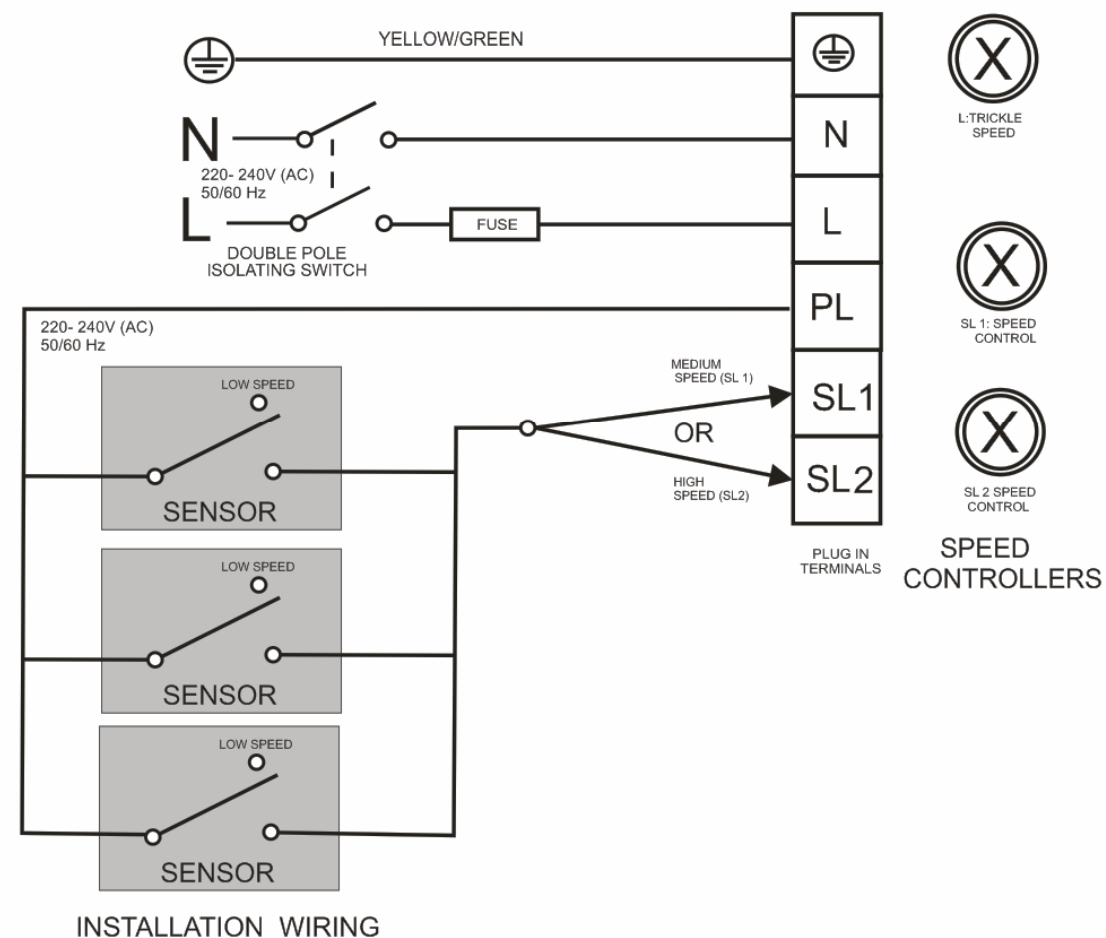
- Three speed selector switch for low (night-time), medium (daytime) and high (boost setting)
- Dimensions w81 x h152 x d62mm



Three Speed Controller
Ref. 91457AA



CONNECTION WITH SENSORS OR SEVERAL CHANGE OVER SWITCHES



Cable Specification:

A double insulated cable used with a cable cores greater than 0.75mm²; which has been appropriately specified for this specific application by a qualified professional.