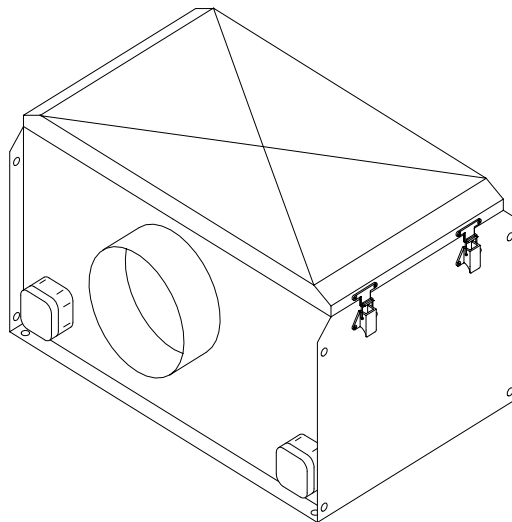


# **Vent-Axia**<sup>®</sup>

## **ACOUSTIC TWIN FAN**

Installation and Wiring Instructions



Stock Ref. N°

ATQ 100-12C ATQ 200-12C ATQ 400-14C

ATQ 125-12C ATQ 250-12C ATQ 500-14C

ATQ 150-12C ATQ 315-12LC

ATQ 160-12C ATQ 315-14HC

**220-240V/1/50Hz**



*READ INSTRUCTIONS IN CONJUNCTION WITH ILLUSTRATIONS  
READ AND SAVE THESE INSTRUCTIONS*

# Installation and Wiring Instructions for ATQ Acoustic 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 50°C or less than –15°C.
- Relative humidity above 95%
- Possible obstructions which would hinder the access or removal of the fan.
- Sudden ductwork bends or transformations close to the fan.

## **SAFETY AND GUIDANCE NOTES**

- A. All wiring must be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country.
- B. The fan should be provided with a local double pole isolator switch 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 terminal box is made with flexible cable/conduit.
- F. The fan should not be sited within 600mm horizontally of/or 2250mm vertically of a bath/shower tray, in accordance with the current I.E.E. Regulations for bathrooms.
- G. 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.
- H. If the fan is used to supply air into a room, the installer must ensure that the fan intake is located a minimum of 600mm from any flue outlet.
- I. This fan is designed as an inline duct fan to be positioned between lengths of ducting. Short duct runs terminating within 1.5m must incorporate suitable guards unless the fan is mounted higher than 2.3m.
- J. This fan should not be used where it is liable to be subject to direct water spray from hoses etc.
- K. 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.
- L. Certain applications may require the installation of sound attenuation material to achieve the sound levels required. An auto transformer speed controller is also recommended.

## **INSTALLATION**

### **FAN MOUNTING**

1. The fan is only suitable for mounting horizontally.
2. The fan may be mounted for bottom access by making the following modifications to the shutters:
  - a). Remove the lid of the fan and the retaining screws of the outer shutter brackets.
  - b). Move the nylon bushes to the vacant holes in all shutter brackets.
  - c). Reassemble the shutter flaps into the nylon bushes.
  - d). Refit the retaining screws of the outer brackets and refit the lid of the fan.
3. Securely mount the fan using the holes in the flanges and use the appropriate drop rods, bolts, anti-vibration mounts etc.
4. Flexible connections should be used at the fan inlet and outlet.
5. Ensure that there is adequate clearance for accessing the fan and removal of the access panel if appropriate.

### **WIRING**



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

1. Select and follow the appropriate wiring diagram (*Figs. 2-5*).
2. Check that all connections have been made correctly. Ensure that all terminal screws and cable clamps are securely fastened.
3. The cable entry must be made using a suitable grommet or cable gland.
4. Switch the mains supply on and check the system is operating correctly.

# ROUTINE INSPECTION AND MAINTENANCE

**ISOLATE THE UNIT FROM THE POWER SUPPLY AND ENSURE THAT IT CANNOT BE ACCIDENTALLY SWITCHED BACK ON**

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 on the impeller or the motor (Caution – do not dislodge any balance weights which may be fitted to the impeller). If the fan is handling dust laden air, it is recommended that a filter is installed.
2. All Vent-Axia acoustic fan motors are fitted with sealed for life bearings and do not require lubrication.

## OVERHEATING PROTECTION

The fan motor is fitted with Standard Thermal Overload Protection. This will automatically switch the fan Off in the event of a fault condition. If this occurs, isolate the fan, check for any obstruction, leave the fan for a short time for the motor to cool before reconnecting the power supply. If the fault reoccurs, isolate the power supply and call a service engineer.

**Fig. 1**

### DIMENSIONS (mm)

	A	B	C	D	E	Kg (approx)
ATQ100-12C	312	635	171	510	97	25
ATQ125-12C	312	635	171	510	122	25
ATQ150-12C	312	635	171	510	147	25
ATQ160-12C	312	635	171	510	157	25
ATQ200-12C	362	770	203	610	197	35
ATQ250-12C	362	770	233	610	247	40
ATQ315-12LC	477	880	258	760	312	50
ATQ315-14HC	517	1100	295	810	312	70
ATQ400-14C	517	1100	253	810	397	75
ATQ500-14C	672	1300	357	1060	497	120

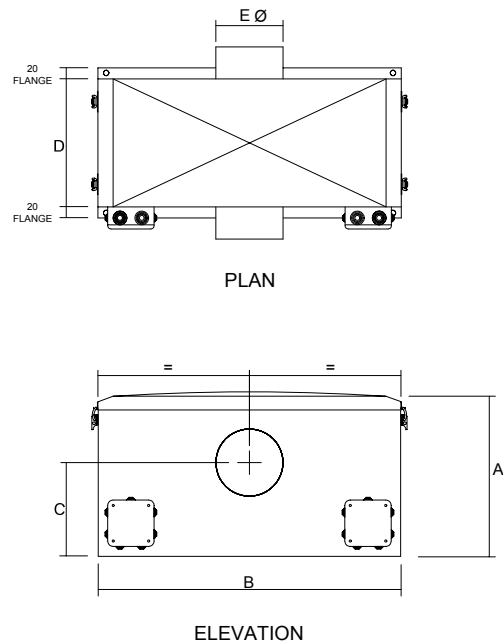
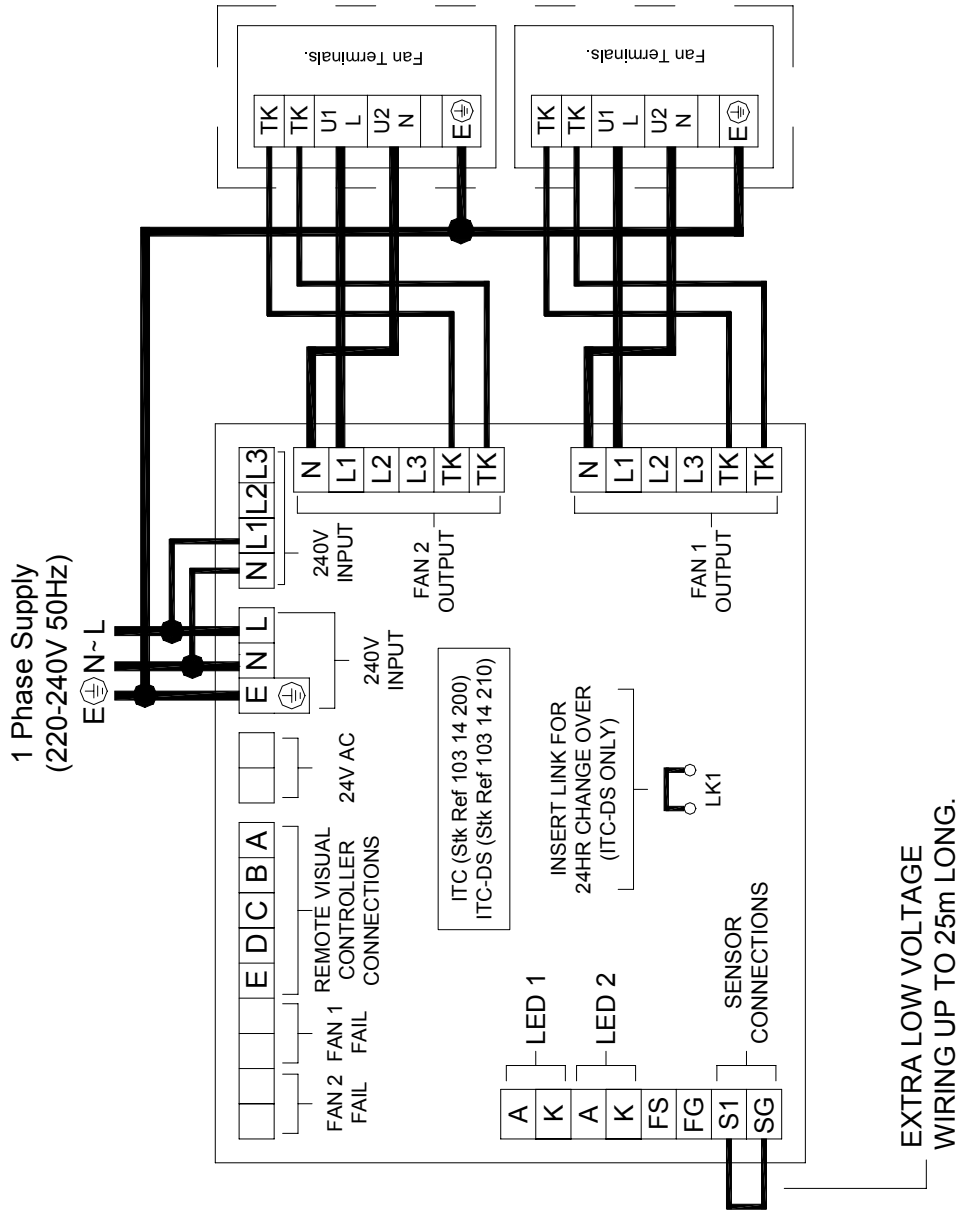


Fig. 2

**ATQ ACOUSTIC SINGLE PHASE FAN WIRING DETAILS**

**STOCK REFERENCE NUMBERS:**

ATQ 100-12C, ATQ 125-12C, ATQ 150-12C, ATQ 160-12C, ATQ 200-12C  
 ATQ 250-12C, ATQ 315-12LC, ATQ 315-14HC, ATQ 400-14C.



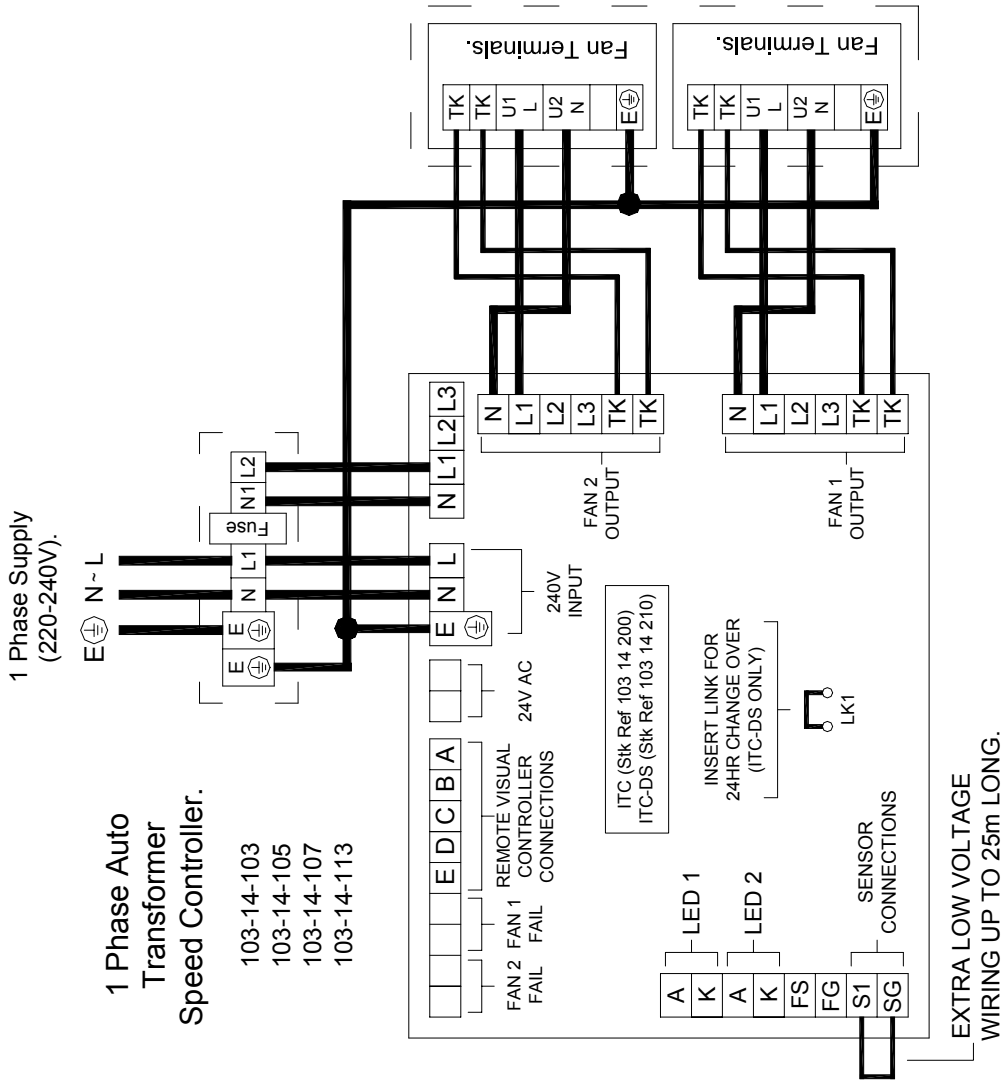
NOTE: The ITC and ITC-DS controller operate by detecting the current flowing to the fan. If it is necessary to switch the fan On/Off for any reason; e.g. fan Off at night, this switch operation must be done via the ITC and ITC-DS controller by making or breaking a contact connected across S1-SG. Otherwise a fan failure will be registered.

Fig. 3

ATQ ACOUSTIC SINGLE PHASE FAN AND AN AUTO-TRANSFORMER WIRING DETAILS

STOCK REFERENCE NUMBERS:

ATQ 100-12C, ATQ 125-12C, ATQ 150-12C, ATQ 160-12C, ATQ 200-12C  
 ATQ 250-12C, ATQ 315-12LC, ATQ 315-14HC, ATQ 400-14C.

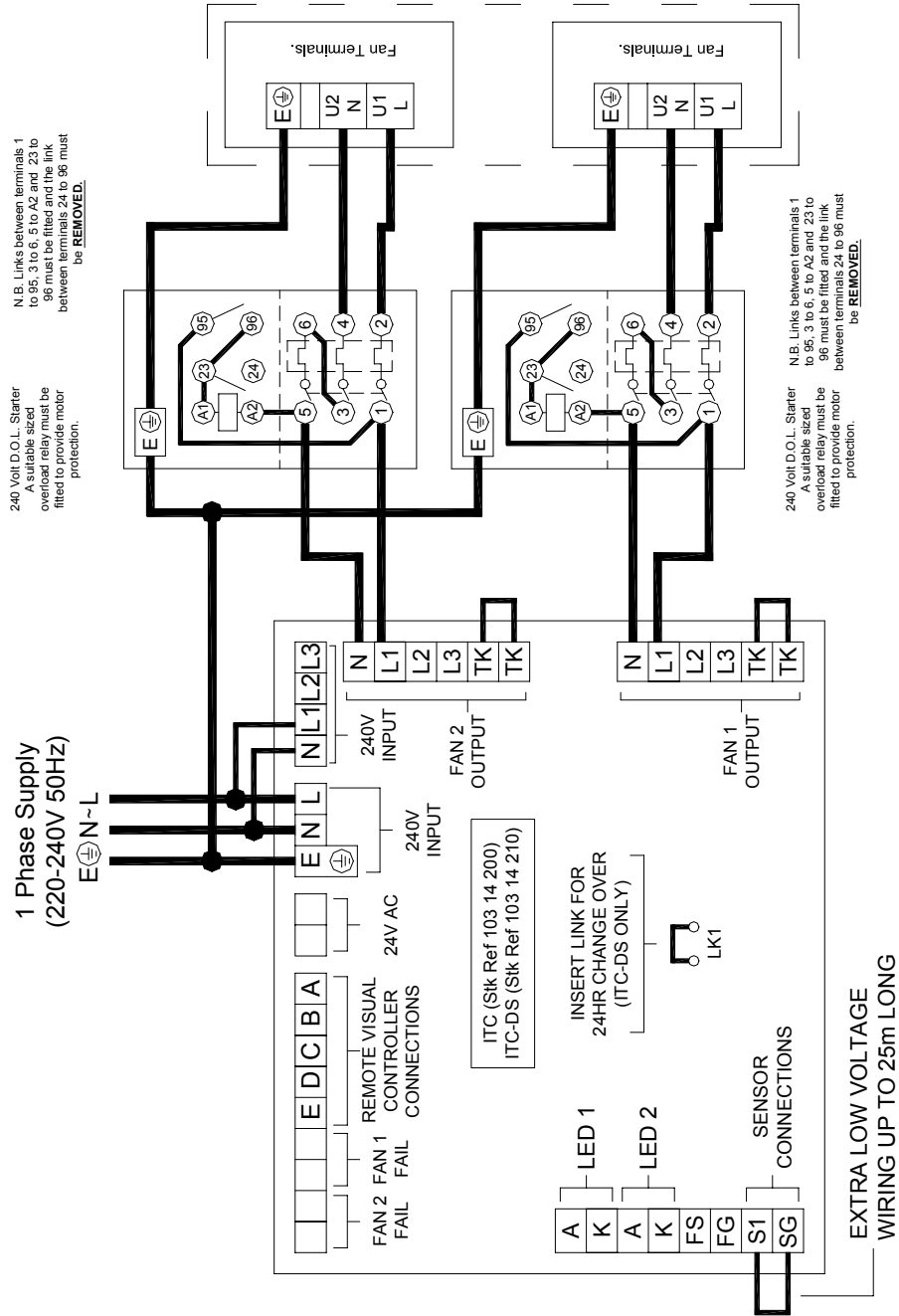


NOTE: The ITC and ITC-DS controller operate by detecting the current flowing to the fan. If it is necessary to switch the fan On/Off for any reason; e.g. fan Off at night, this switch operation must be done via the ITC and ITC-DS controller by making or breaking a contact connected across S1-SG. Otherwise a fan failure will be registered.

Fig. 4

ATQ ACOUSTIC SINGLE PHASE (WITHOUT TK CONNECTIONS) FAN WIRING DETAILS

STOCK REFERENCE NUMBER:  
ATQ 500-14C.

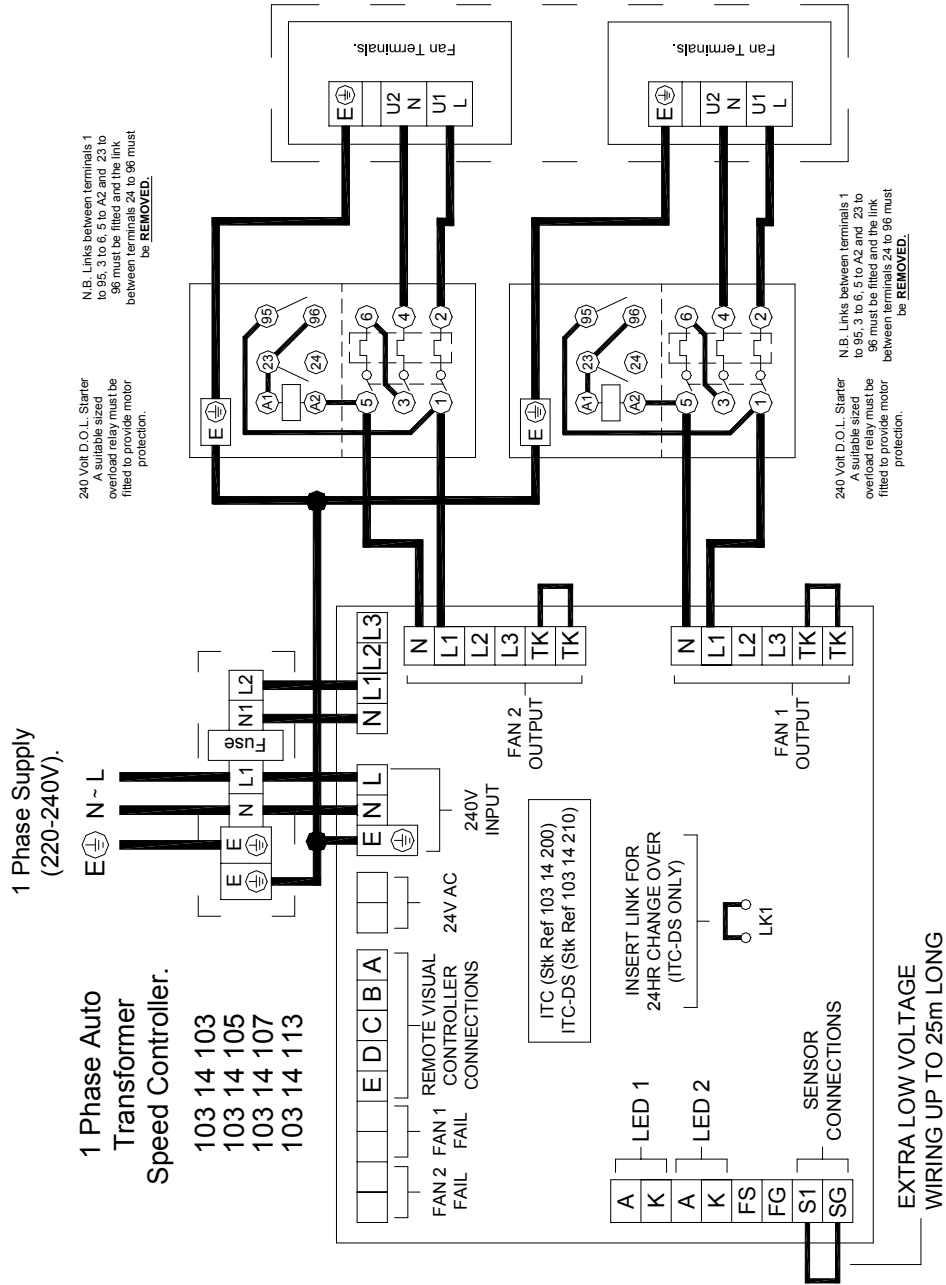


NOTE: The ITC and ITC-DS controller operate by detecting the current flowing to the fan. If it is necessary to switch the fan On/Off for any reason; e.g. fan Off at night, this switch operation must be done via the ITC and ITC-DS controller by making or breaking a contact connected across S1-SG. Otherwise a fan failure will be registered.

Fig. 5

# ATQ ACOUSTIC SINGLE PHASE FAN (WITHOUT TK CONNECTIONS) AND 5 STEP AUTO-TRANSFORMER WIRING DETAILS

STOCK REFERENCE NUMBER:  
ATQ 500-14C.



NOTE: The ITC and ITC-DS controller operate by detecting the current flowing to the fan. If it is necessary to switch the fan On/ Off for any reason; e.g. fan Off at night, this switch operation must be done via the ITC and ITC-DS controller by making or breaking a contact connected across S1-SG. Otherwise a fan failure will be registered.

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Did you find these instructions easy to use?  
We value your comments, contact us via:

email: [info@vent-axia.com](mailto:info@vent-axia.com)

## The Vent-Axia Guarantee

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

Vent-Axia guarantees its products for two years from the 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 opinion replaced, without charge, provided that the product:

- 1) has been installed and used in accordance with the instructions given with each unit.
- 2) 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).
- 3) has not been subjected to misuse, neglect or damage.
- 4) has not been modified or repaired by any person not authorised by the Company.

### IF CLAIMING UNDER THE TERMS OF THE GUARANTEE

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

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

# Vent-Axia®

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