

# 5-STEP AUTO TRANSFORMER

Installation, Set-up and Operating Instructions



Stock Ref. Nos.

103 14 103	103 14 301
103 14 105	103 14 304
103 14 107	103 14 307
103 14 113	103 14 311



READ INSTRUCTIONS IN CONJUNCTION WITH ILLUSTRATIONS
PLEASE LEAVE THESE INSTRUCTIONS WITH END USER

# SINGLE AND THREE PHASE 5-STEP AUTO TRANSFORMER CONTROLLER INSTALLATION AND WIRING INSTRUCTIONS

IMPORTANT – READ THESE INSTRUCTIONS FULLY 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 less than -5°C or higher than 40°C.
- Relative humidity above 95%.
- Possible obstructions which would hinder the access or removal of the controller.

#### **SAFETY GUIDANCE NOTES**

- A. All wiring must be in accordance with current I.E.E. Regulations, or the appropriate standards of your country. The equipment should be protected with a local isolator switch having a contact separation of at least 3mm.
- B. Ensure that the mains supply (Voltage, Frequency and Phase) complies with the rating label.
- C. The controller should only be used in conjunction with the appropriate Vent-Axia Products.
- D. The controller should not be sited within 600mm of/or 2250mm above a bath/shower tray, in accordance with current I.E.E. Regulations for bathrooms.
- E. This controller should not be used where it is liable to be subject to direct water spray from hoses etc.

#### **INSTALLATION**

#### **MOUNTING**

- 1. The controller is suitable for mounting directly on either a vertical or horizontal surface. DO NOT SUSPEND.
- 2. Securely mount the controller using the appropriate screws or bolts.
- 3. If the controller is mounted on a metal surface or partition, ENSURE THAT THE SURFACE IS EARTHED.

#### **WIRING**



<u>WARNING:-</u> THE FAN AND ANCILLARY CONTROL EQUIPMENT <u>MUST</u> BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION AND MAINTENANCE OF THIS PRODUCT.

#### THE CONTROLLER AND ASSOCIATED EQUIPMENT MUST BE EARTHED.

- 1. Ensure the switch is in the 'OFF' position.
- 2. Remove the front cover and connect the unit in accordance with the appropriate wiring diagram (Figs 1-2).
- 3. Check that all connections have been made correctly and ensure that all terminals screws/nuts and cable clamps are securely fastened.
- 4. The cable entry must be by a suitable grommet or cable gland.
- 5. Connect the power supply and check that the fan and any ancillary equipment are operating correctly.

#### **NOTES ON RUNNING**

Before switching 'On' CHECK:

- · Control unit and motor/fan are secure.
- All relevant guards and covers are fitted.
- Earth connections have been made and are secure.

Switch 'On' the mains and controller.

Turn controller to maximum and down to minimum to ensure motor/fan operates accordingly.

# SINGLE PHASE AUTO-TRANSFORMER

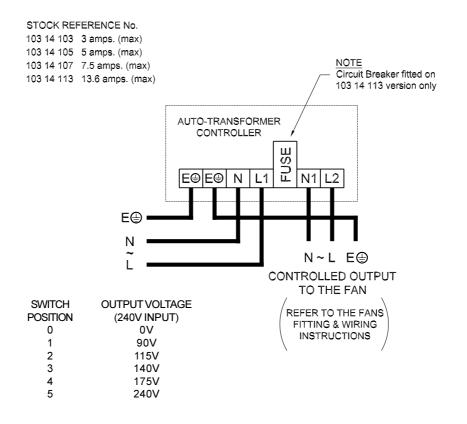
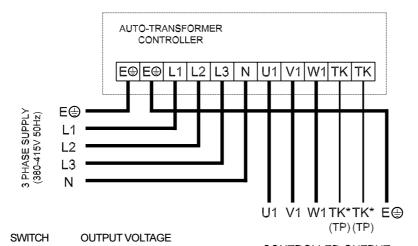


Fig.2

#### THREE PHASE AUTO-TRANSFORMER



POSITION	(415V INPUT)	CONTROLLED OUTPUT
0	0V	TO THE FAN
1 2 3 4 5	100V 130V 175V 240V 415V	REFER TO THE FANS FITTING & WIRING INSTRUCTIONS  * TK = Thermal Protection
		Switch

NOTE:
A TRIAL CONNECTION SHOULD BE MADE TO CHECK THAT THE DIRECTION OF FAN ROTATION IS CORRECT. IF INCORRECT, INTERCHANGE ANY TWO PHASES OF THE THREE PHASE SUPPLY. ENSURE THE EARTH CONNECTION IS MADE INSIDE THE TERMINAL BOX OR ISOLATOR.

# **VENT-AXIA SALES CENTRES**

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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 this product for one year 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 option 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 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.

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



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