

# **Vent-Axia®**

## **VAIR15B,VAIR20B,VAIR30 & VAIR40 QUARTZ HEATERS**

Installation & Wiring Instructions



(Model shown VAIR30)

**Stock Ref. Nos.**

<b>426345A</b>	<b>(VAIR15B</b>	<b>1.5 kW)</b>
<b>426346A</b>	<b>(VAIR20B</b>	<b>2.0 Kw)</b>
<b>426347A</b>	<b>(VAIR30</b>	<b>3.0 Kw)</b>
<b>426348A</b>	<b>(VAIR40</b>	<b>4.0 Kw)</b>

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

*READ AND SAVE THESE INSTRUCTIONS*



## Installation and Wiring Instructions for the Quartz Heater.



### 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.

### SAFETY AND GUIDANCE NOTES

- 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.
- The Heater should be provided with a local double pole isolator switch having a contact separation of at least 3mm.
- The Quartz Heater **MUST BE EARTHED.**
- Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.
- It is recommended that the connection to the terminal box is made with flexible cable.
- The Heater should not be sited in a bathroom or swimming pool area.
- The Heater should **NOT** be sited where it is liable to be subject to direct water spray from hoses etc.
- This heater is **NOT** designed for outdoor use.
- Do not cover with clothing etc. when in use.
- Do not insert objects through the slots or openings on the heater.
- Ensure the mains cable does not come into contact with the heater cover.
- DO NOT** handle the halogen lamp with bare hands. If the lamp is accidentally touched, remove finger marks with a soft cloth and methylated spirit or alcohol.
- Ensure that the heater is installed out of reach of children.
- Do not use an extension cable with this heater.
- Allow the heater to cool prior to any angular adjustment.
- The heater should always be installed using the wall mounting brackets provided to ensure adequate clearance from the wall.
- A minimum air gap of 450mm should always be allowed between the top of the heater and the ceiling or roof.
- A Safety distance of 1mtr should always be left in front of a 1.5kW heater. Heaters of 2kW, 3kW and 4kW should have a safety distance of at least 1.5mts.
- It is recommended the heaters be operated with a guard in front of the lamp and should always be fitted to units mounted below 2.2mtrs.

### Installation.

The essential element of the heater is the halogen filled quartz linear lamp with a tungsten element. This operates at about 2200°C and is housed in a ruby quartz sleeve to filter out the white light and emit short wave infrared radiant heat.

The lamp operates at full output almost instantly and emits a radiant energy of 1.2microns.

**Quartz heaters are not recommended by The Electricity council and Building Services Research Association for General space heating, Zone heating and localised spot heating**

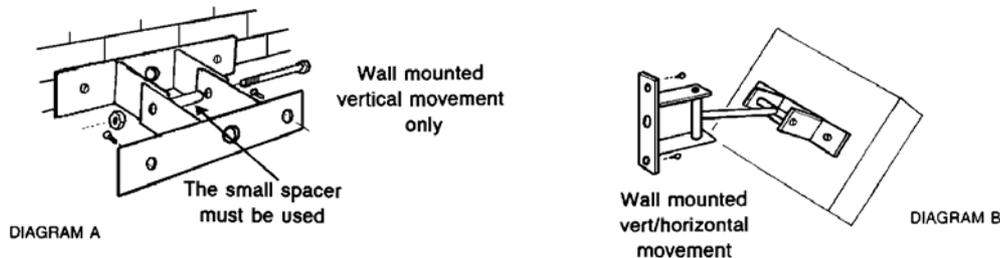
## A. Mounting.

### Location

- Heaters should be angled at 30° to 45° from the vertical whether wall or ceiling mounted.
- There must always be a minimum clearance of 450mm between top of heater and ceiling.

### Wall mounting

- Decide whether vertical movement only (Diagram A) or vertical/horizontal movement (Diagram B) is required for correct positioning of heaters and assemble as shown.
- Avoid mounting heaters on structures liable to vibrate.
- Recommended mounting heights and safety distances should always be observed.



Model	Mounting Height (Metres)			Safety distance from Heater (mts)
	Minimum	Recommended	Maximum	Minimum
VAIR15B	2.2	<b>2.5</b>	3.0	1.0
VAIR20B	2.2	<b>2.5</b>	3.2	1.5
VAIR30	2.2	<b>2.5</b>	3.5	1.5
VAIR40	2.5	<b>3.5</b>	4.0	1.5

## B. WIRING



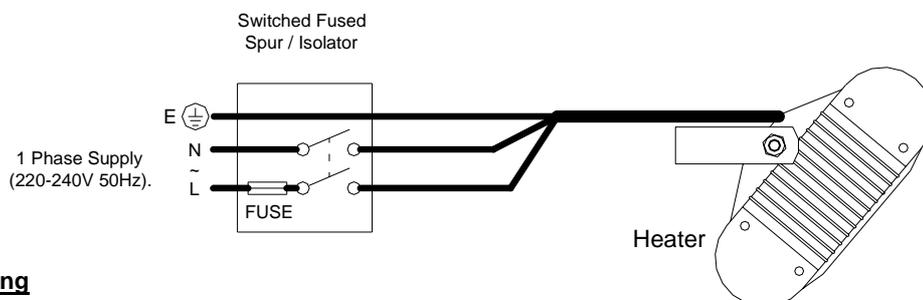
**WARNING: THE HEATER AND ANY ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING INSTALLATION.**

**THIS HEATER MUST BE EARTHED.**

### Electrical installation

The range comprises 1, and 2 lamp Heater Models.

- One and two-lamp heater models are factory fitted with high temperature silicon rubber flexible cable conforming to BS 6500 having a temperature rating of 180°C continuous.
- Appliances must be earthed.
- It is advised that Type 3 (Type C) MCBs are used or an appropriate fused outlet. In multi-lamp single phase installations, in order to prevent the initial inrush current causing nuisance tripping, MCBs over rated by 60 - 70% may be required.



### Commissioning

- Perform Insulation and Earth continuity Tests.
- Switch on heater(s) and confirm that lamp(s) operating.
- Ensure each heater aims its warmth into the target area by adjusting heater angle(s) as necessary then tighten bracket bolts when satisfactory coverage is achieved.
- Check that lamp(s) remain in a horizontal plane for all angles of heater(s).
- Lamps must only be operated within 5° of the horizontal plane.
- The user/customer should be made aware of all aspects of operation and safety and strongly advised to retain these instructions for reference.
- In unoccupied premises it is recommended that the heating system is switched off and isolated from the electrical supply.

## C. MAINTENANCE / CLEANING.

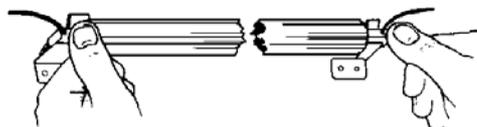
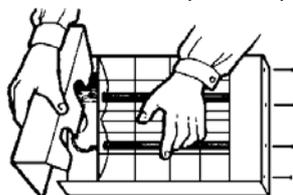


**WARNING: THE HEATER AND ANY ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE / CLEANING.**

- To ensure optimum heat effectiveness, it is recommended that after the heater has been used for a period of 80 – 100 hours, or if a white deposit is seen on the reflector.
- The guard and lamps should be removed to gain access to the reflector, which should be wiped with a lint-free cloth before re-assembling. Take care not to handle the lamp with bare hands.
- Allow the filament/heater to cool prior to carrying out any maintenance or angular adjustment.

### **CLEANING / REPLACING THE FILAMENT LAMP**

- 1) Undo 4 screws on each end cover, remove covers and safety guard.
- 2) Peel protective cover from reflector.
- 3) Carefully remove lamp from its box, centre lamp to brackets with leads pointing upwards.
- 4) Insert each end of lamp halfway under each spring clip.
- 5) Push each end of lamp with equal thumb pressure fully into clips.



N.B. Any inadvertent finger marks on the tube glass sleeve can be removed using methylated spirits on a soft cloth

- 6) Connect lamp leads to connector blocks. Tighten nuts/screws
- 7) Re-assemble heater by fitting one-end cover, then guard and second end-cover.
- 8) Ensure no wires are trapped under end-covers before tightening screws.
- 9) Place heater face down and attach one 'U' bracket to back.

# VENT-AXIA CONTACT NUMBERS

## UK NATIONAL SALES CENTRE

### Domestic & Commercial

Tele: 01293 530202

Fax: 01293 565169

### Industrial

Tele: 01293 441570

Fax: 01293 534898

## REPUBLIC OF IRELAND

Vent-Axia Ventilation Ltd.

921 Western Road Industrial Estate

Naas Road, Dublin 12.

Tele: (01) 450 4133

Fax: (01) 450 4570

## UK NATIONAL TECHNICAL SUPPORT

### Domestic & Commercial

Tele: 01293 526062

Fax: 01293 551188

### Industrial

Tele: 01293 455196

Fax: 01293 455197

Internet site at: [www.vent-axia.com](http://www.vent-axia.com)

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 of 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 discretion the product will be replaced without charge, provided that the product:

- 1). Has been installed and used in accordance with the instruction given with each unit.
- 2). The electricity supply complies with the rating label.
- 3). Has not been misused, neglected or damaged.
- 4). Has not been modified or repaired by any person not authorized to do so by Vent-Axia.

### IF CLAIMING UNDER THE TERMS OF THE GUARANTEE

Please return the complete product, carriage paid to your original supplier 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 the date and source of purchase.



**This product should not be disposed of with household waste.  
Please recycle where facilities exist. Check with your local authority for recycling advice**

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

**Vent-Axia**

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

Tel: 01293 526062 Fax: 01293 551188

Internet site at: [www.vent-axia.com](http://www.vent-axia.com)