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VEA FAN HEATERS - ADDITIONAL INFORMATION

On Delivery
VEA fan heaters are supplied with a OK2 external control switch, and TG-R430 adjustable temperature sensor, to avoid loss in transit they are inside the lid on the top of the heater. A pair of wall brackets are packed separately.

Storage
If the heater is not installed immediately store in a dry place, protected from physical damage, frost and rain.

Installation
VEA fan heaters are intended for installation by skilled and qualified personnel. All local wiring regulations must be adhered to.

VEA electric fan heaters require a 400V 3 phase and neutral electricity supply, they MUST be earthed.

The size of the supply cable will depend on the type and length of the cable, fixing method, ambient temperature, and size of MCB, etc. The cable should be chosen based on the following maximum phase currents and minimum recommended MCB sizes:

Model	Maximum Phase Current	Minimum MCB Type C*
EA6	8.8 A	10
EA9	13.1 A	16
EA14	20.4 A	25
EA21	30.5 A	40
EA30	43.5A	50

*The current rating may need to be increased depending on the number of devices in the switchboard and if the ambient temperature exceeds 30C. See EN60439-1.

TG-R430 air temperature sensor
One TG-R430 sensor is required for each heater. Do NOT attempt to use a TG-R430 to control more than one heater.

For correct operation of the heater it is important that the wiring to the TGR-430 sensor is kept at least 150mm from all other wiring. DO NOT install it in shared conduit.

The TG-R430 is an important part of the heaters control system and MUST be fitted. Do NOT attempt to omit it and short circuit the terminals on the heater. If the sensor fails in normal use, it must only be replaced with an identical item.

The TG-R430 circuit is low current a 1 or 1.5mm cable is suitable.

OK2 control switch
Some control switches have a solid metal link fitted, do not remove it. One switch is required for each heater. Do NOT attempt to control more than one heater. The OK2 circuit is low current, use a 1 or 1.5mm cable.

Optional time switch (available separately)
An optional time switch can be connected between terminal 1 on the heater and terminal 2 on the OK2. When the time switch is closed the heater will operate.

Isolation (not supplied)
A 4 pole isolator must be fitted within 2m of the heater. But NOT above it.

Because electrical heaters draw full current when they are operating, compact enclosed isolators should be derated to allow for the effects of self heating.

Use
VEA heaters are supplied with a remote adjustable air temperature sensor (TG-R430). The temperature control on the heater is not used and has no effect, set the desired air temperature on the TG-R430.

To operate in fan only mode, for cooling etc. The fan switch on the heater should first be switched to 'continuous' operation.

VEA21 & VEA30 Fan Over Run
For normal day to day use the heater should be turned on and off using the OK2 control switch.

The fan in the VEA21 & VEA30 will continue to run after the heater is turned off by the OK2 control switch to dissipate excess heat from the heater.

If the supply to the heater is interrupted, for example by the isolator, while the fan is running the over heat cut out will operate. The heater will not re-start until the cut out has been manually reset.

<u>The heater should only be turned off at the isolator if the fan is not running.</u>

Warranty
For a period of 12 months from the date of purchase, W. Tombling Ltd. warrants this product to be free from defects in material and workmanship.

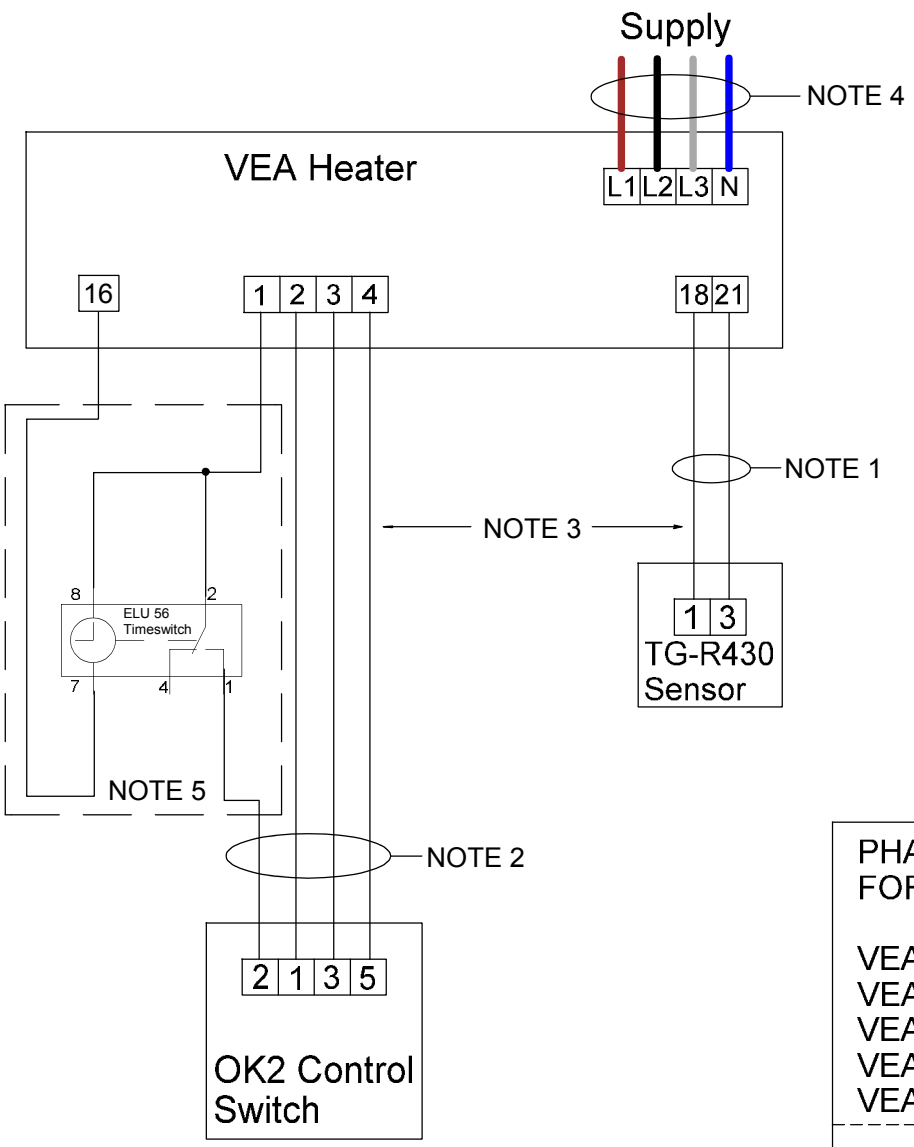
This warranty applies only to the original buyer who purchased the goods from W. Tombling Ltd. or its duly authorised agents and dealers. The warranty shall be voided if the goods have been mis-used, tampered with, subject to improper use or installation, neglected, physically damaged, altered, modified or any attempt to repair is made.

If a defect occurs during the warranty period, the goods must be returned to W. Tombling Ltd. sufficiently packaged so as to avoid damage in transit along with proof of purchase, and a detailed description of any faults.

W. Tombling Ltd. shall not be liable for loss or damage whilst in transit to our premises. Cost of shipment to and from W. Tombling Ltd. shall be borne on account of the buyer.

W. Tombling Ltd. sole responsibility in the event of a defect is limited to the correction of defects by adjustment, repair or replacement at W. Tombling Ltd. sole expense and discretion.

Other than repair, there are no other warranties express or implied, including but not limited to, any implied warranties or merchantability for particular applications. In no event shall W. Tombling Ltd. be liable for loss of profits or benefits or similar damages arising out of any breach of this warranty or otherwise.



NOTES:

1) A TG-R430 AIR TEMPERATURE SENSOR MUST BE CONNECTED TO THE HEATER. NEVER attempt to omit it or short circuit terminals 18 & 21 on the heater. If the TG-R430 fails it must be replaced with an identical device.

2) The OK2 function control switch should be wired using 1 or 1.5mm cable. Note the terminal connections. A solid link is fitted to the switch, do not remove it.

3) The TG-R430 MUST be wired SEPARATELY using it's own 1 or 1.5mm cable. Keep the wiring to the TG-R430 as short as possible, and AT LEAST 150mm FROM ALL OTHER WIRING.

4) The heater should be connected to the electricity supply via a suitably rated cable and 4 pole isolator (not supplied). The isolator should be installed within easy reach of the heater, but NOT ABOVE it. When selecting an isolator, it should be over derated to allow for the effects of self heating.

5) An optional timeswitch (available sperately, P/No. ELU56) can be fitted between terminal 1 on the heater and 2 on the OK2 switch. The heater will operate when the contacts are closed.

OVER CURRENT PROTECTION
Where the heater is protected by a triple pole MCB, to prevent nuisance tripping use a type C device.

VEA21 & VEA30 FAN OVER RUN
The fan on the VEA21 and VEA30 will continue to run after the heater is turned off by the OK2 control switch to dissipate excess heat.

If the supply to the heater is interrupted by the isolator switch while the fan is running it will stop and the over heat cut out will operate. The heater will not re-start until the cut out has been manually reset.

Users should be instructed that for normal day to day operation they should TURN THE HEATER ON AND OFF BY THE OK2 CONTROL SWITCH. The heater should only be turned off at the isolator if the fan IS NOT RUNNING.

PHASE CURRENT FOR VEA HEATERS

VEA6 - 8.8A
VEA9 - 13.1A
VEA14 - 20.4A
VEA21 - 30.5A
VEA30 - 43.5A

Important: Failure to comply with this installation guide will invalidate your warranty.

TITLE

VEA WALL MOUNTED FAN HEATER WIRING DIAGRAM & NOTES

SIZE	CAGE CODE	DWG NO	REV
A4		047SWA	2

SCALE		SHEET
NTS	04/01/2010	1/1