

AMBIENT AIR CURTAINS SPEED CONTROLLER INSTALLATION (RETROFIT)



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WARNINGS


- 1 This appliance must only be installed by a competent person in accordance with the requirements of the Codes of Practice or the rules in force.
- 2 All external wiring MUST comply with the current IEE wiring regulations.
- 3 Warning this appliance must be earthed.

1. General Information

This document describes the method used to retrofit a speed controller to the ACR and AC range of ambient air curtains. It assumes the units have the standard factory fitted AC-ACR controller and keypad.

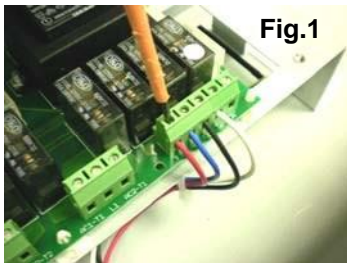
*For full technical specification, operation and maintenance of AC and ACR units, please refer to document refs **GB/AIR/043** and **GB/AIR/044**. (AC and ACR manuals respectively).*

2. Step by step instructions.

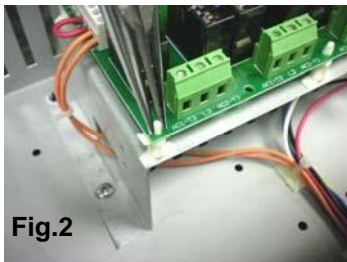
 Isolate mains electricity supply before commencing any work.

1: On ACR models open the access grille, or on AC models remove the semicircular cover completely to gain access to the PCB control board.

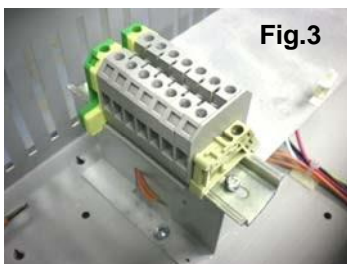
2: Disconnect all cables from the factory fitted PCB control board as shown in Fig.1.



3: Using fine nosed pliers release the plastic clips securing the PCB board to its bracket as shown in Fig.2 then remove.

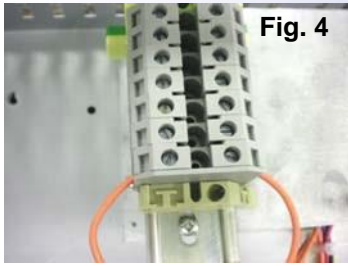


4: Fit the new DIN rail with terminals (supplied) to PCB bracket using the 4mm pins and nuts (supplied) as shown in Fig.3.

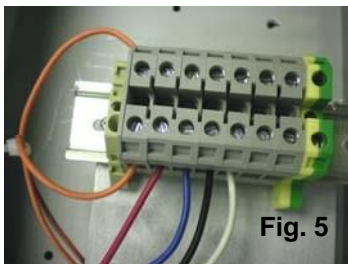


5: Certain models, (1.0 metre and 1.5 metre), have two additional orange wires which originally would be connected to the PCB board (see Fig.2). These should be fitted to the new terminal rail as shown in Fig.4. overleaf.

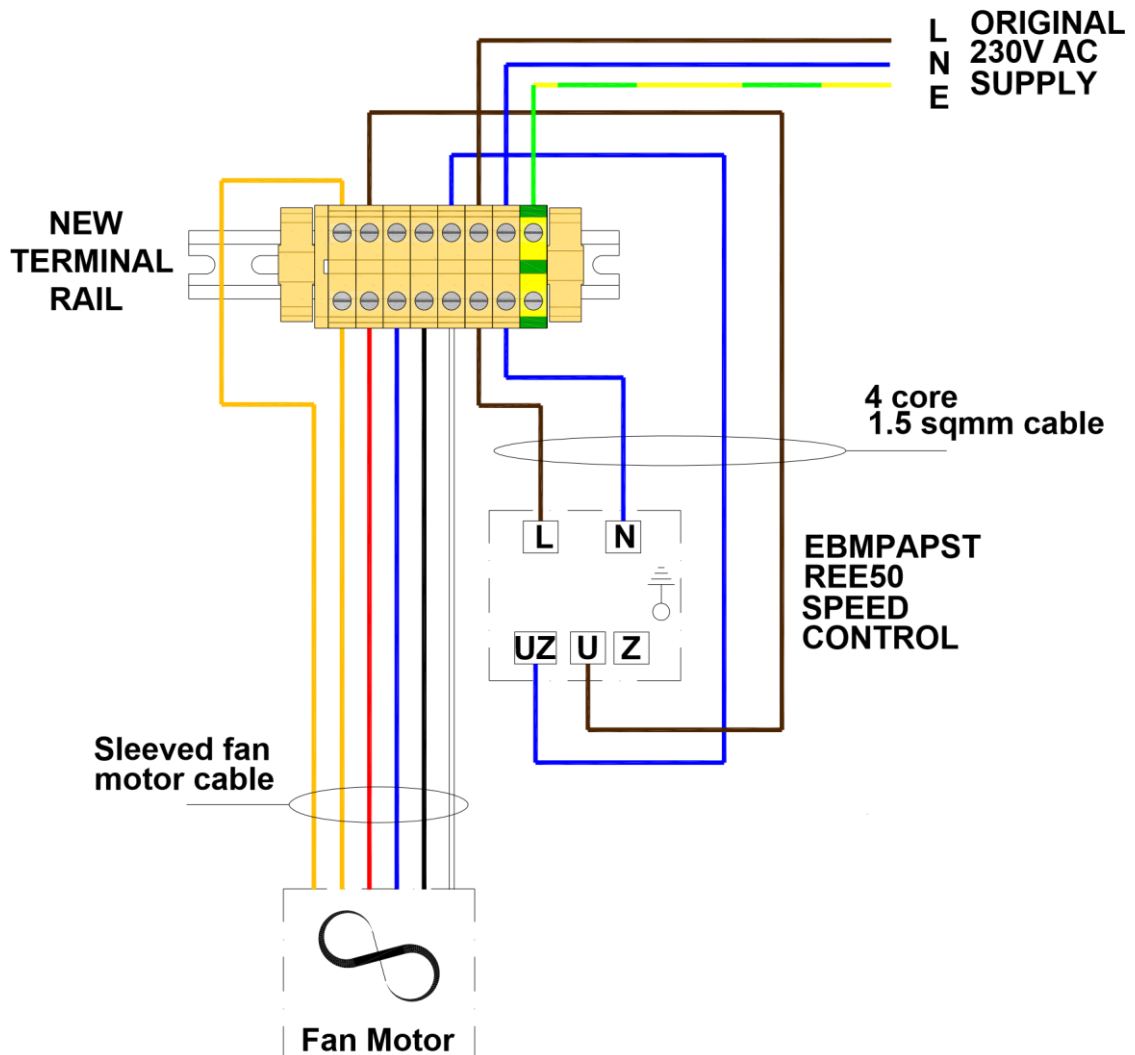
Step by step instructions cont.



6: Wire in the fan motor cables as shown in Fig.5.



7: After mounting the speed controller in a suitable position, refer to the following wiring diagram to complete the installation.



Wiring options.

WARNING:

Only **ONE** of the speed windings must be connected to the speed controller via the terminal rail. The wiring diagram shows the low speed motor cable (**RED WIRE**) connected to the speed controller.

If a higher fan speed is necessary, the **BLUE (medium speed)**, or the **BLACK (high speed)** wire can be used. The two unused cables must always be inserted into the unused cable terminals.

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