INSTALLATION AND OPERATING INSTRUCTIONS FOR AUTO CHANGEOVER PANELS ACOAS RANGE

The ACOAS changeover panels are designed to suit single phase twin fan units with airflow switches. Please note that an airflow switch must be fitted to monitor each fan and the airflow switches must not “see” the airflow from the other fan I.E. the 2 airflow switches cannot be in the same airstream.

The control panel fascia has a power lamp, fan fail lamp and a rocker switch. The VFC models have fail contacts that can be used in conjunction with a remote indicator or to interface with a building management system.

Model no.	Electrical supply	Rating	Dimensions (H x W x D)	Mounting
Manual duty share models				
ACOAS	230v 1Ph 50Hz	9A max	147mm x 197mm x 79mm	Surface
ACOAS-VFC	230v 1Ph 50Hz	9A max	147mm x 197mm x 79mm	Surface
Automatic duty share models				
ACOAS-ADS	230v 1Ph 50Hz	9A max	197mm x 247mm x 97mm	Surface
ACOAS-ADS-VFC	230v 1Ph 50Hz	9A max	197mm x 247mm x 97mm	Surface

Installation

Check that the auto changeover panel supplied is compatible with the fan motors.
Install in a dry sheltered position. Do not install in close proximity to a heat source.
Remove the front cover of the controller by unscrewing the fascia fixing screws. This provides access to mounting holes and electrical terminals. All wiring must be carried out by a suitably qualified and competent person and comply with current applicable regulations.

Auto Changeover

The control panel will automatically changeover from the duty fan to the standby fan if the duty fan airflow switch detects a loss of airflow.

Manual duty share models

Manual duty share models are fitted with a 2-position (Fan A/Fan B) rocker switch enabling the user to manually select the duty fan. The control panel will auto changeover from the duty fan to the standby fan as described in Auto Changeover above

Auto duty Share models

Auto duty share models are fitted with an electronic timer to provide a 12 hour cycle time for each fan.The timer has a jumper link to allow testing of the auto changover on a 1 minute test cycle for each fan. After testing the jumper link should be fitted back in the 12hr cycle time position The position of the jumper link for the test cycle and 12 hour cycle are shown below.

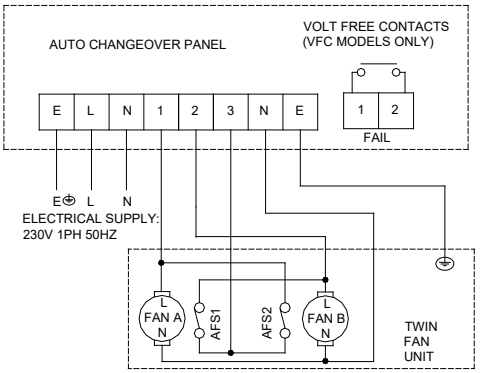
Jumper link in 1 minutes test position

Jumper link in 12 hour cycle position

Volt free contacts (VFC Models)

These models are suffixed with VFC and feature 1 set of volt free contacts for a common fan fail status. The contacts are normally open and close when either fan fails.

Wiring diagram



AFS1: Fan A airflow switch. Normally closed contacts that open when Fan A airflow is present

AFS2: Fan B airflow switch. Normally closed contacts that open when Fan B airflow is present