

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 a timeswitch allowing the user to select the time period they wish the duty fan to run for before automatically changing over to the other fan for that time period. The control panel will also auto changeover from the duty fan to the standby fan as described in Auto Changeover above. The changeover panel will run FAN A as the duty fan when the timeswitch is in its OFF period and will run FAN B as the duty fan when the timeswitch is in its ON period.

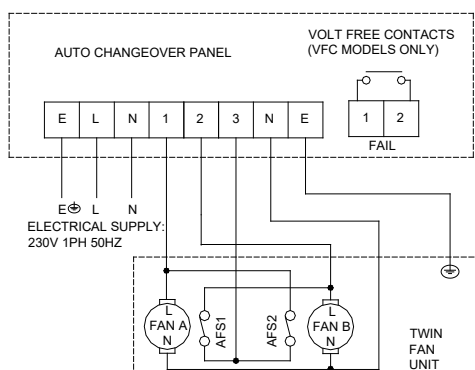
Programming the timeswitch

1. Decide what times you would like the timeswitch to switch ON and OFF.
2. Push the timeswitch segments up for the OFF (FAN A run) period and push the timeswitch segments down for the ON (FAN B run) period and The minimum switching interval is 30 minutes and this can be increased in 15 minute steps.
3. Turn the programmer ring clockwise until the correct time of day on the ring lines up with the time indicator (white arrow)

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