CREATING
SAFER
LABORATORIES

# RFC 170-P

RE-CIRCULATING FUME HOOD

CLYDE-APAC

# INDEX


| | |
|---|---|
| 01 INTRODUCTION | 3 |
| 02 CABINET | 4 |
| 03 START/STOP & FACTORY FAN SPEED SETTING | 5 |
| 04 USER DAY TO DAY OPERATION | 6 |
| 05 HEPA & CARBON FILTER MAINTENANCE | 6 |
| 06 RECOVERING FROM A POSSIBLE POWER FAILURE | 7 |

# 01 INTRODUCTION

This procedure provides information on how to safely prepare and operate the RFC 170-P fume hood once it arrives to its final intended destination. This procedure is specific to the Clyde-Apac designed fume hood and should be undertaken by a competent trades person, or you can contact AES Environmental on 1300 550 116 to arrange installation.

The fume hood will arrive shipped as three component modules, a lower sub assembly which will come complete with adjustable leg mounts for squaring up any uneven flooring, and a middle and upper assembly section. All items need to be carefully positioned in line with each other. When fully assembled the combined total weight will be 320Kg's.

## 02 CABINET

**TOOLS REQUIRED**

Screwdriver, spanner, knife & sealing joint tape.

**FRONT OF CABINET**

**STEP 1**

Remove the rear window cover packaging.

**STEP 2**

Remove any excess packaging from internal door cupboard.

**STEP 3**

Connect main plumbling services to sink and water tap. Hardwire cabinet electronics to main electrical control panel.

**STEP 4**

The outer front cabinet panel needs to be removed. This is done by removing two pozi drive screws located one at either side at the top.

*This image shows the inner control panel With the fan access cover removed. In normal mode of operation this cover is required to be fitted at all times. The access cover is retained y four screws, and sealed to the inner panel by a suitable rubber gasket.*

# 03 START/STOP & FACTORY FAN SPEED SETTING

**STEP 1**

To first start the cabinet you must do the following:
After opening the access cover you will see two switches.

01 Top switch is the main switch and needs to be turned clock wise to on.

02 The second switch operates the fan with two settings "forward and reverse". To operate the cabinet turn this **switch to forward.**

*When above two steps are complete*
*replace access cover to inner housing.*
*Prior to re-fitting check the rubber seal/gasket*
*hasn't been damaged otherwise*
*replace and seal tightly.*

The fan speed has been pre-factory set at "H500". This speed setting has been determined to be the most energy efficient and safe operation of the cabinet
in line with Australian Standard test requirements.
This setting will not require any further adjustment during day to day laboratory operation. This setting will be checked and fine tune adjusted once the cabinet is located in its final position on-site.

Thereafter every six-months fine tune adjustment will be required to compensate for increased pressure to compensate for the load building within the filters. This can be combined with the six-month NATA accreditation service.

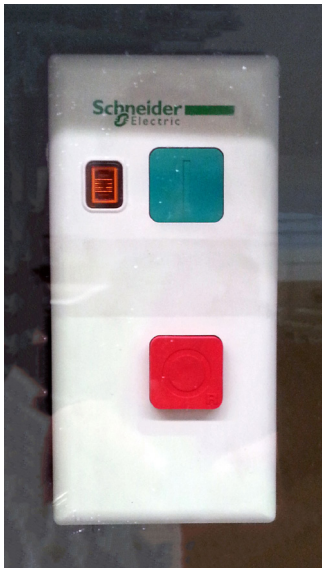
*Any adjustment of the factory fan setting must be undertaken by a suitably trained service engineer. You can contact AES Environmental on 1300 550 116 for information on your nearest service technician.*

Note – only for internal service technician use at this point insert info on .....
(insert "Seat 25" relevant operational details)
Truc has some ideas on this otherwise this section is complete for customer intended use.

## 04 USER DAY TO DAY OPERATION

**STEP 1**

A user friendly "On/Off" switch has been fitted to the inside of the work screen cabinet, and this replaces the need to remove the outer panel and access cover from the inner panel.




**STEP 2**

To start the fume cabinet press the green button.

**STEP 3**

To stop the fume cabinet press the red button.

## 05 HEPA & CARBON FILTER MAINTENANCE

**HEPA Filter**

The fume cabinet is factory fitted with Australian Standard compliant AS4260. HEPA filter. HEPA filters are extremely fragile and require careful handling to avoid any damage to the material fibres. The HEPA filter contains micro fibre material which are bonded into long lengths and any mishandling can fracture these joints and create pin holes which will allow 0.3 micron contaminate to pass through. It's for this reason replacement and testing of the HEPA filters should be carried out be suitably qualified and trained technicians.

*Always use genuine HEPA filters as there are many grades and sizes available and many will not be suitable for this fume cabinet, and change out will occur when air flow pressures are fully utilised or if pin hole frequency is evident during testing.*

**Re-Ordering Part No. 753532**

**Carbon Filter**

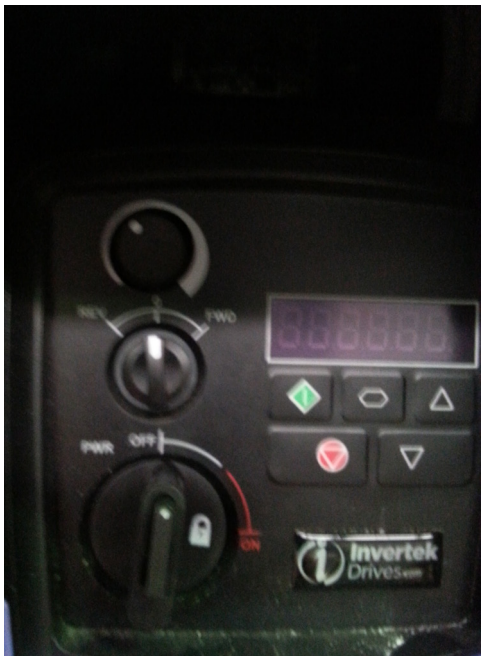
Its recommended the carbon material be changed during every regular NATA service. During periods of high usage the carbon change out frequency may be higher.

**Replacement Carbon Material No. 1687-2007-11**

## 06 RECOVERING FROM A POSSIBLE POWER FAILURE

Power failure due to surges and facility overloading can occur from time to time.

The fume cabinet electrical system doesn't retain an automatic memory recovery function.




**STEP 1**

Remove outer panel by following instructions on page two Steps 1 - 4.

**STEP 2**

01 Turn top switch to off.

02 Turn second switch from "forward to middle" position.

This resets the functions on the cabinet and you can now proceed to follow the procedure outlined in **section 3.0 above.**

*Any adjustment of the factory fan setting must be undertaken by a suitably trained service engineer. You can contact AES Environmental on 1300 550 116 for information on your nearest service technician.*

## THE COMPANY

AES Environmental is an Australian owned manufacturing business producing products under Clyde-Apac, Email Air Handling and Vokes brand names for industries that are as varied as industrial plants, commercial buildings, power stations, food processing, healthcare, science and electronics. AES Environmental considers the Australian Standards as a core component of its product mix and has developed an export market in 25 countries, promoting Australian Standards, engineering and manufacturing solutions. AES Environmental, a trusted manufacturer capable of delivering reliable product solutions to highly-critical applications, where the control of hazardous airborne contamination is often critical to process and personnel.

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*In keeping with our policy of continuing product improvement, we reserve the right to alter specifications without notice.*

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