

**CREATING  
A CLEANER  
ENVIRONMENT**



## **NEGATIVE AIR FAN FILTER MODULES**

IMPROVING THE AIR YOU BREATHE





## APPLICATION

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Email Air Handling Negative Air Fan Filter Modules are designed for use in applications where critical contaminants must be isolated. Typically used for asbestos removal.

## DESCRIPTION

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The Negative Air Fan Filter Module is manufactured in Australia to conform with the performance requirements of AS2252.6. The robust cabinet houses a fan, pre-filter and a HEPA filter. This combination ensures the removal of airborne contamination by air drawn in by the fan and passing through the filters.

## LIMITATIONS

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Email Air Handling Negative Air Fan Filter Modules must not be used where products and materials such as inflammable vapours and airborne biological agents present an exposure risk to personnel.

## PERFORMANCE

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The HEPA filters are individually tested on a NATA accredited Hot DOP test rig to AS2252.6 and filter efficiency is always guaranteed. Hot DOP testing is an essential part of HEPA filter manufacture since only Hot DOP creates a fog of 0.3 micron particles to challenge the filters efficiency. To pass inspection each filter must achieve a minimum efficiency of 99.99%. The module HEPA filter is designed and tested to supply 566 l/s at an initial resistance of 250 Pa.

## STANDARD SPECIFICATION

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HEPA filters will be individually tested to AS2252.6 by a NATA accreditation laboratory.



## CONSTRUCTION



CABINET	Constructed from 1.5mm galvabond steel.
FAN	Heavy duty direct drive fan with variable speed control for extended filter life.
FILTER	HEPA filter strictly conforming with AS 4260. The filter cell is securely sealed to a metal frame with a high density neoprene gasket. Australian manufacture and testing ensures that filters are less likely to require on-site repair.
POWER	Provided via a single phase, 240 volt, 10 amp, 3 pin plug.
WEIGHT	96kgs.

## FILTER REPLACEMENT

Pre-filter Part No. 1516-1538/7

HEPA Part No. 1589-7182/305

## MAINTENANCE AND SERVICE

Modules should be inspected and tested on-site:

- before use.
- after repairs.
- when HEPA filter is renewed.

Such testing ensures conformity with AS2252.6. Both filters are serviced from the dirty air side. Replacement filters, spare parts and servicing facilities are available in all capital city's. Suitable PPE must be worn when changing either of the filters, ensuring that the contaminated filters are disposed of correctly.

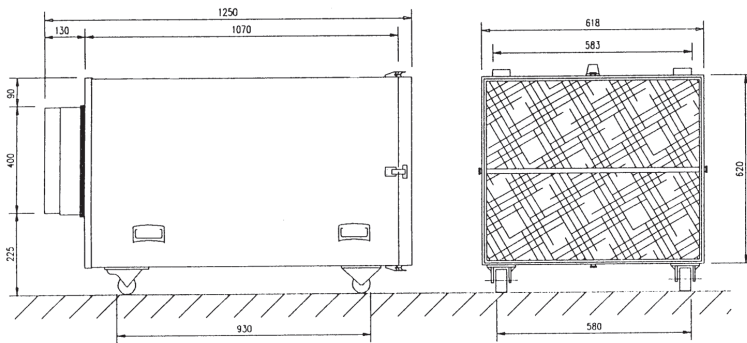
## HOW TO SPECIFY

Filter unit shall be AES Environmental Negative Air Fan Filter Module. Unit model number 1687-1600/4 with a rated airflow of 566 L/s. Filter unit and replacement HEPA and pre-filters shall be manufactured in Australia. HEPA filters will be individually tested to AS2252.6 by a NATA accredited laboratory.



AES Environmental maintains an ISO 9001:2008 quality management system to ensure process and product conformance.





## CONTROLS

Each unit has a recessed control panel housing an ON/OFF switch, fan speed adjustment knob, alarm, alarm indicator, alarm test switch, 3 pin mains panel mounted plug and Magnehelic gauge.

The alarm sounds and the alarm indicator lights up when the HEPA filter becomes dirty. At this point the filter works well below it's rated capacity. The alarm test switch tests for the normal operation of the alarm, alarm indicator and internal battery.

The Magnehelic gauge indicates the pressure drop across the filter. The normal value is pre-set at 250 - 280 Pa.



## 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.*



🏠 19 Saggart Field Rd, Minto  
 📞 1300 550 116  
 📠 1300 550 117  
 ✉ sales@aesenvironmental.com.au  
 🌐 www.aesenvironmental.com.au

