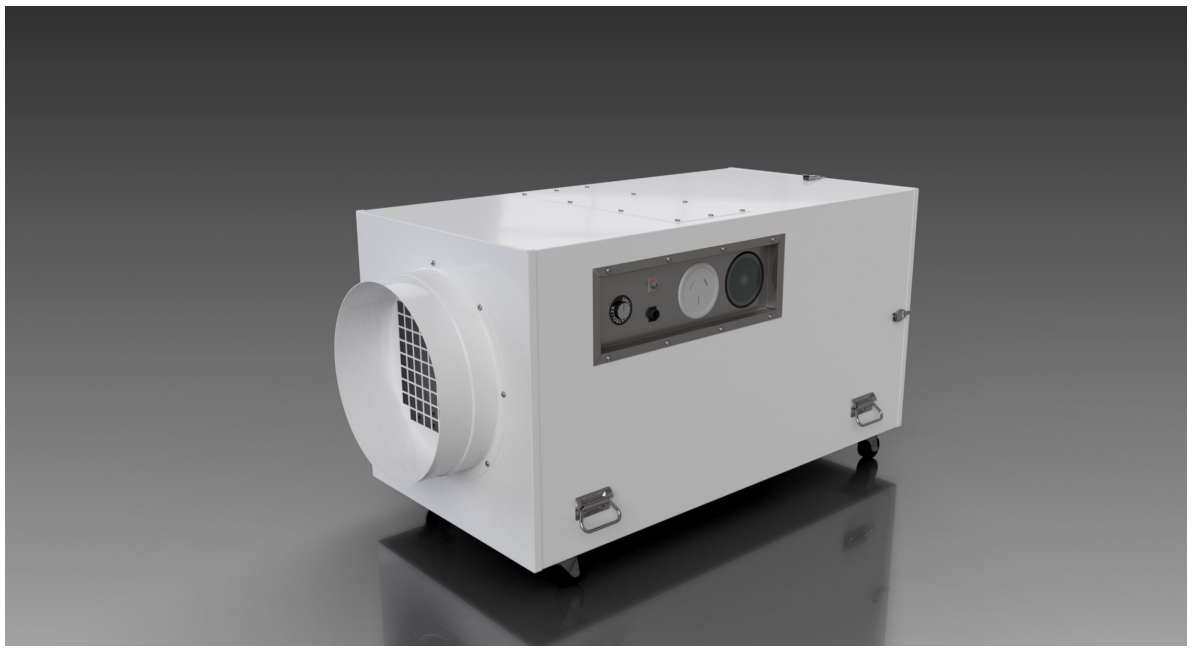


# PCU Series

Odour & Pollution Control Unit



## Application

The Email PCU is a specialist air filtration product, designed for use in office buildings, pubs and clubs, commercial buildings or any other room requiring the removal of cigarette smoke and odours.

Made in Australia, the PCU is a derivative from the Email Negative Air Unit, which is used for the removal of critical containments.

## Description

The unit can be fully portable, with wheels supplied as an option for ease of relocation. Where wheels are fitted wheel locaters are also attached to the unit to enable them to be stacked safely. Fan speed controller and a 240-volt power socket (for connection to mains via extension lead) are also fitted as standard items.

The metal casing houses a prefilter, an activated carbon filter and a fan. Air is drawn into the unit through the 100% polypropylene prefilter before being passed through layers of activated carbon. This activated carbon effectively traps any odours and gasses in the airflow by chemical reaction with the carbon granules.



The prefilter used in this unit is an F6 rated P-Pleat panel filter. A filter which is unique to AES Environmental, it offers far superior airflow and service life than conventional panel or media pad type prefilters.

For more information on the filters used in this unit refer to the AES Environmental Carbosorb and P-pleat brochures.

## Construction

CABINET	Constructed from 1.5mm galvabond steel.
FAN	Heavy duty direct drive fan with variable speed control for extended filter life.
FILTER	P-Pleat panel 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.



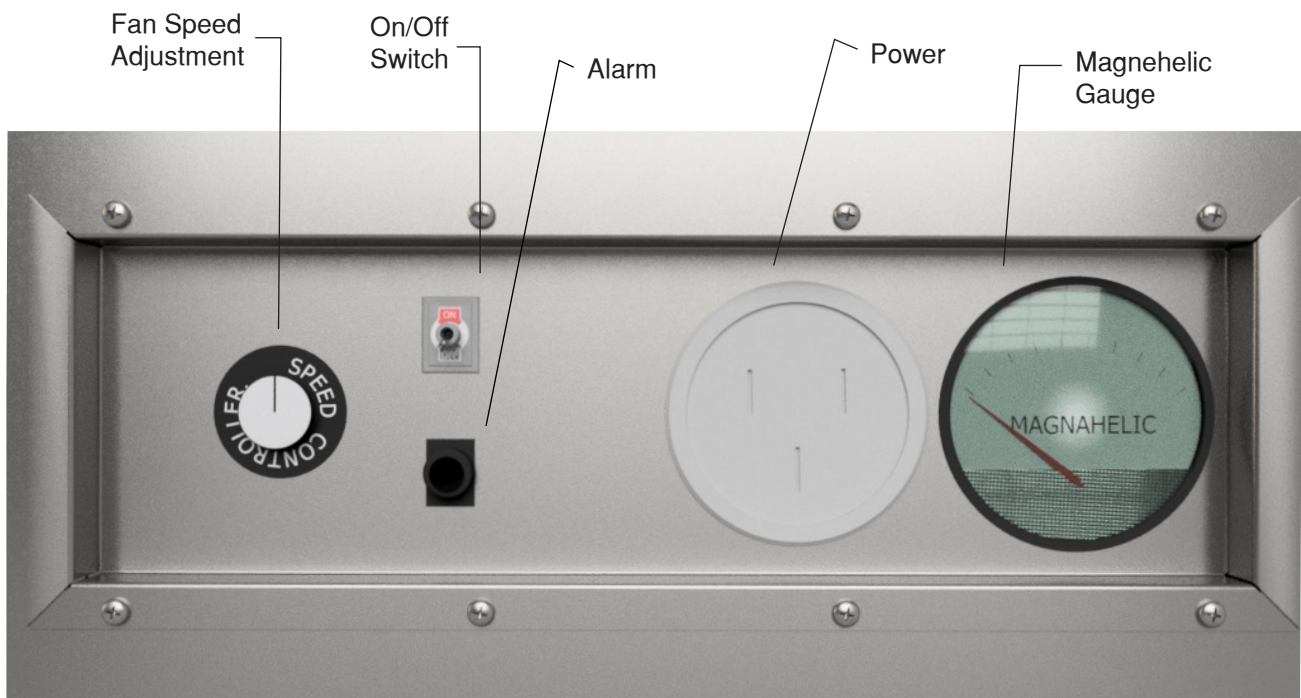
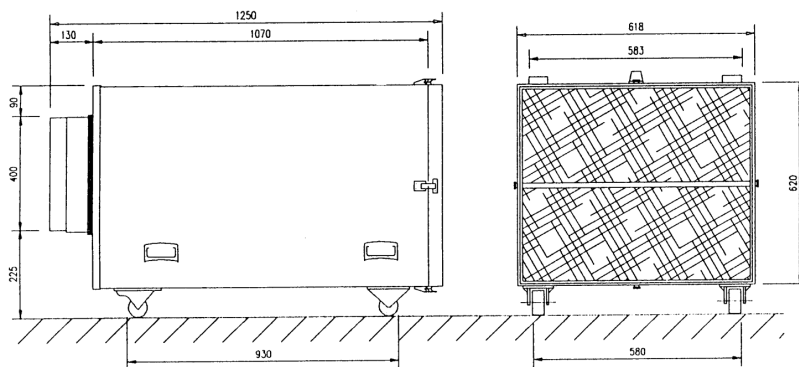
## Controls

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.



## Filter Replacement

- › Pre-filter Part No. 1516-1538/7
- › P-Pleat panel filter 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 cities. Suitable PPE must be worn when changing either of the filters, ensuring that the contaminated filters are disposed of correctly.

## Other Products

- › Carbosorb Filter Packs
- › Email Mark II
- › Mark II HC Media
- › Clear Aire ceiling-mounted filtration systems

## How To Specify

Filter unit shall be AES Environmental PCU Series. 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 9001:2015 quality management system to ensure process and product conformance.

## 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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