

# MINI CONDOR©

## Negative Pressure HEPA Unit

### Application and Description

Condor© Negative pressure HEPA units are designed for use in applications where on-demand negative pressure rooms are needed. This includes operating theatres, isolation wards, laboratories or standard air conditioned rooms that require containment of microscopic airborne contamination prior to exhausting into the hospital or laboratory building HVAC system.

The Condor© Mini offers a low cost on-site solution when there is an urgent requirement to convert a positive pressure area to negative pressure area. This is essential in situations where air borne contaminants may be present or generated through the cleanup and containment of spillage. The Condor© is ready to be engaged to provide safety to the operators in the containment effort.

The Mini Condor© comes complete with an H14 deep bed HEPA filter and pre-filter. The robust cabinet design is available with either a 250mm or 300mm diameter exhaust spigot, facilitating easy connection of the room exhaust duct.

Each Condor© unit is supplied with an individual factory test certificate affixed to the outer body demonstrating that the HEPA filter is leak free when integrity tested to AS1807.7.

Condor© can be custom optioned to suit various applications.



Image 1: The mini Condor© is installed in an operating theatre. It is capable of converting the normal positive room to negative pressure within seconds, when the unit is switched on.

Theatre room dimensions 2.5 x 6.25 x 2.9 meters (45 mts<sup>3</sup>)  
Total inclusive air flow through the system 409 l/s (1.17m/s)  
room air changes 32.8/hour. Room pressure to the corridor -10Pa and -4.1 Pa to scrub room. Noise compliant to Australian Standard 1807:20.

### Specifications

Description	Part Number	Outlet Exhaust	Outlet Diameter
Mini CONDOR© Negative Pressure Hepa Unit	1687-1600/8	Rear	250mm
	1687-1600/81	Rear	300mm
	1687-1600/88	Top	250mm
	2687-2600/91	Top	300mm

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### UNIT DIMENSIONS

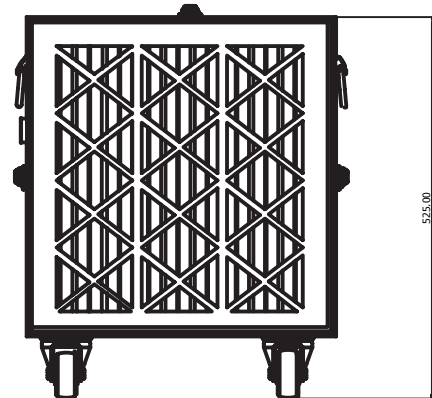
Length rear and top exhaust	620 Rear or 780mm Top
Width	420mm
Height	420mm
Floor to Top	520mm
Weight	35kg

### TECHNICAL DATA

	l/s	dB @ distance
Low Speed	185	54.1 1.5mts
High Speed	254	64.9 1.5mts
Variable speed #1	205	64.9 1.5mts
Variable speed #2	221	57.1 1.5mts

HEPA Filter	
Re-ordering Part Number	1589-7182/050
Minimum Standard	AS. 4260-1997
Country of Manufacture	Australia
Grade and Type	Grade 2 Type 1
Aerosol Penetration Leakage	<0.001 to AS 1807.7

HEPA Performance Data	l/s	Pa
Low speed	56	50
High Speed	349	300
Variable Speed #1	256	200
Variable Speed #2	201	150
Variable Speed #3	160	120



Pre-Filter	
Re-ordering Part Number	FS50-406406
Minimum Standard	AS 1324.2
Country of Manufacture	Australia
Test Aerosol #1	25%
Test Dust #4 Efficiency	30-35%
Test Dust #2 Gravimetric	90-95%

Electrical Usage
240V 0.9Amp 50Hz

### Maintenance

Its recommended when the mini Condor© unit is used in critical demanding areas the Pre-filters be replaced every three (3) months. Changing the pre-filter is easy and requires no special tools or fasteners . Simply turn the yellow coloured clip and remove the pre-filter's, be careful not to damage the HEPA media located behind when replacing the pre-filter. Undo the frame, then turn the clips.

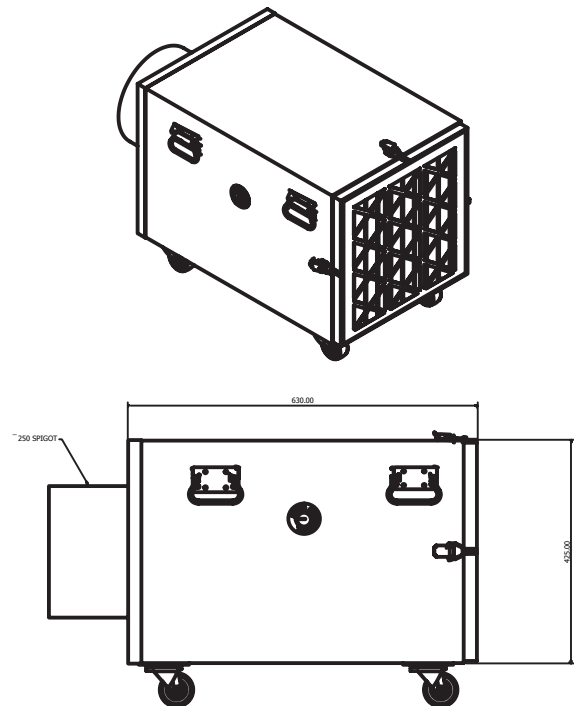
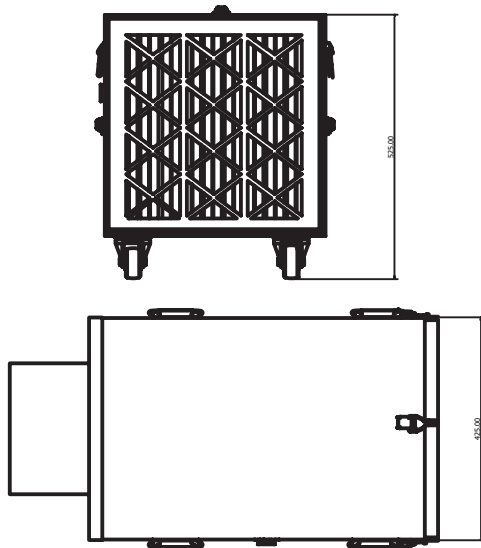
The HEPA filter should only be changed by an authorised agent skilled in H14 HEPA filter removal and replacement. Thereafter the system needs to be integrity tested to AS1807.7 and the updated compliance sticker placed on the cabinet side.



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### DRAWINGS



### How to Specify

Negative air pressure mobile unit designed to meet health requirements, providing a comfortable design rating of 220l/s fitted with a variable speed motor. Complete with a standard deep bed HEPA filter compliant to AS4260 Grade 2 Type 1, and when installed capable of achieving less than  $<0.01 @0.3$  micron particle contamination penetration through the media. Fitted with a pre-filter to meet 30% test method #1 efficiency AS1324:2 and compliant to AS 1807:20 noise levels.

### Warranty

Each Condor© Negative Pressure unit carries a manufactures warranty of 12 months against manufacturing defects.

### Distribution

For ordering pre-filters and HEPA filters refer to previous table. For location of your nearest distributor contact AES Environmental on 1300 550 116 for further information about the company and products refer to:

[www.aesenvironmental.com.au](http://www.aesenvironmental.com.au)

[sales@aesenvironmental.com.au](mailto:sales@aesenvironmental.com.au)

### Similar Products

We Have a range of similar Products, including :

- Condor© Standard, which is a larger model suitable for heavier duty.
- Condor© Supreme, a fully optioned product for asbestos abatement or carpark ventilation Purification.

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

