



Frequently Asked Questions (FAQ) Activated Carbon Filtration)

1. Where is the activated carbon filtration manufactured?

The activated carbon filtration unit is manufactured in AOS Factory Sydney Australia.

2. What models are the activated carbon filtration manufactured in?

Activated carbon filtration units are manufactured in 4 models.

CB2500 – 700 L/s

CB5000 – 1400 L/s

CB7500 – 2100 L/s

CB1000 – 2800 L/s

3. How are the activated carbon filtration units connected?

The activated carbon filtration unit can be hung from the concrete via uni strut make sure all structures are checked or via brackets, stands. Duct inlet and outlet transitions can be screwed to the flange of the carbon unit and must be sealed properly for any air leaks or oil leaks.

4. What cooking applications is the activated carbon filtration unit installed for?

Any cooking applications to remove and absorb the cooking odour from the cooking process.

5. How does the activated carbon filtration work?

The V bank formation of the carbon trays are filled with carbon pellets. When the kitchen exhaust air passes through the carbon unit cooking odours are removed with minimal airflow resistance. The V formation ensures high carbon content and cooking odour will change direction to absorb and remove odours.

6. Does the activated carbon filtration require power? No

7. What are the benefits of installing an activated carbon filtration unit?

All cooking odour and VOC (Volatile organic compounds) will be eliminated at the kitchen exhaust discharge outlet.

8. How much contact time does activated carbon filtration require to work?

1.1 to 0.2 seconds

9. Where is the activated carbon filtration installed or located in the kitchen exhaust system?

It is installed before the kitchen exhaust fan.

10. Is the activated carbon filtration unit modular designed?

Yes the carbon filtration units can be stacked on top of each of each other for increased airflow requirements.

11. What is the static pressure of the activated carbon filtration unit?

120pa

12. Can the activated carbon filtration unit be installed for outdoor installations?

Due to powder coated finish on the carbon units it can be installed for outdoor use it is possible to install a rain cover for extra weather protection.

13. How many activated carbon filtration units are required for each project?

It will depend on the cooking application and also the volume of exhaust air requires, and the sensitivity of the discharge outlet will smoke and odours cause a nuisance.

14. Are the carbon trays refillable?

Yes, the carbon trays can be refillable with charcoal pellets and re installed back into the carbon unit.

15. What is the right amount of activated carbon filtration that can be used for each project?

Odour is very subjective and there is a lot of variables involved. Depending on the airflow rates to what the cooking application is double pass activated carbon filtration maybe required in some instances it is better to over engineer the kitchen exhaust filtration slightly to get the desired result.

16. How long does the activated carbon filtration unit last for before being serviced and maintained?

Depending on factors such as cooking application and cooking usage usually minimum 8 – 12 months the carbon trays will need to be replaced a visual check will be required.

17. Does installing an activated carbon filtration unit remove residue ozone from the UV hoods and other ozone technologies?

Yes, the activated carbon filtration will remove and absorb excess residue ozone in the commercial ventilation system.

18. Does activated carbon filtration system allow for horizontal kitchen exhaust discharge?

Just the activated carbon filtration system will only remove cooking odour. You will also require double pass electrostatic precipitator to remove smoke, grease and oil mist before discharging to the street all code requirements must be met.

19. What size and type of duct inlet and outlet transitions should be installed on the activated carbon filtration unit?

No steep or short transitions should be installed on the inlet and outlet of the activated carbon filtration unit this will affect the performance of the carbon unit. Large enough inlet and outlet transitions should be installed to slow the velocity down inside the carbon unit to work more effectively.

20. What happens if the activated carbon filtration unit is not serviced and maintained properly?

It will lead to decrease in performance of the activated carbon unit it will lead to more cooking odour on the discharge outlet, it will also lead to increased static pressure which will lower airflow volumes on the kitchen exhaust system if grease and oil is collected on the carbon trays.

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