



## FAQ – Frequently Asked Questions

### Uvi Aire Ozone Generators

1. Where is the ozone generators manufactured?

The ozone generator is manufactured in AOS factory in Sydney Australia.

2. What sizes does ozone generated manufactured?

AOS - 30G - 1600 L/s

AOS - 40G – 1800 L/s

AOS – 50G – 2200 L/s

Multiple ozone units can be installed in accordance for airflow rates.

3. How is the ozone generated connected?

There is 100 mm circular connection located on the side of the ozone unit and the PVC pipe can be connected from the ozone unit to the kitchen exhaust duct.

4. What cooking applications is the ozone generator used for?

Any cooking application the ozone generations can be used for.

5. How does the ozone generator work?

Ozone generators are designed to produce the gas ozone with an electrical current to convert the air into ozone via corona plate process and when the ozone is produced it oxidises the cooking odour.

6. When installed in the kitchen exhaust system should the ozone generated be electrically interlocked?

Yes, it should be electrically interlocked with the kitchen exhaust fan.

7. What are the benefits of installing a ozone generator?

The benefits include keeping the kitchen exhaust ductwork clean of grease and oil which reduces fire risk and reduces ductwork cleaning. And ozone is a very powerful oxidisation agent it removes and neutralises cooking odour.

8. How much contact time does the ozone required to make it work properly?

It requires 2 -3 second contact time for the odours to mix with the ozone. The longer the contact time the better the ozone will work.

9. Where is the ozone generator installed in the kitchen exhaust system?

Usually the ozone generator is connected before the exhaust fan. It can be fixed to the wall or installed in the ceiling or on the ductwork itself. When installing adequate service and maintenance access must be considered.

10. What are the power requirements for the ozone generator is?

240 Volts – single phase 1PH 1.5mm 3 pin cable provided (Plug & Play).

11. Is the ozone generator factory commissioned and tested before it leaves the AOS factory?

Yes, all ozone generators are factory commissioned and tested before it leaves the factory.

12. How does the variable output controller work on the ozone generator?

Located at the face of the ozone unit the circular variable output controller it can be easily switched manual ( 0 – 100) if the ozone output needs to increased or decreased accordingly to cooking odours and intensity.

13. What is the maximum PVC pipe length that can be installed on the ozone generator?

5 metres is the maximum length of the PVC pipework and the shortest PVC pipe connection the kitchen exhaust ductwork the better the ozone will react with the cooking odours.

14. Can the ozone generator be installed for outdoor installations?

Yes, it can install for outdoor installations there must be a rain cover that must be installed for water protection.

15. If there is a concern about ozone smell on the kitchen exhaust discharge point what solutions can be installed?

AOS recommended activated carbon v bank to be installed in the commercial ventilation system to absorb and remove ozone therefore there will be no ozone smell on the discharge outlet.

16. How much ozone is required for each cooking application?

Cooking odour is subjective and varies from each individual project. If there is cooking odour on the exhaust discharge outlet more ozone generators will need to be added to kitchen exhaust system sometimes it is a balancing act.

17. Do the ozone generators remove visible smoke form the commercial kitchen exhaust system?

No, ozone generators is only utilised for cooking odour if you require to remove smoke it is best to install electrostatic air cleaners to remove smoke.

18. How does ozone work?

Ozone is a colourless gas with a pungent odour it is also a powerful oxidizing agent.

Ozone is a suicidal molecule it looks for a containment to attack, oxidizing it and destroying itself in the process.

19. How long does ozone last for in the kitchen exhaust system?

As soon as ozone is formed by the ozone generator it will start to revert back into oxygen in 30 minutes. Higher temperature and humidity will also destroy ozone quickly.

20. What is the right level of ozone required?

The right level of ozone is when all the amount of ozone is produced is consumed. Sometimes it is a balancing act whether to add more ozone or less.