



# COMMERCIAL DEODORIZER & AIR PURIFIER

## FG SERIES



**Keep Exhaust  
Ducts Clean**

**Reduces Cooking  
Odours**

**Reduces Smoke  
and Oil Mist**

## What is Ozone?

Ozone is created naturally near the ground by lightning. The fresh smell in the air after a thunderstorm is ozone. Ozone (O<sub>3</sub>)

Ozone is oxygen in its most active state; it therefore means a more generous supply of oxygen, the life giver. Nature produces ozone for the purpose of purifying the air, and to destroy all organic decay upon which disease germs and bacteria thrive. It is the pathogens that create unhealthy air and odour in the environment.

Ozone is a powerful oxidant and bactericide and is sometimes called "activated oxygen", or "triatomic oxygen", contains three atoms of oxygen rather than the two atoms we normally breathe.



Close up of Bacteria in Petri Dish

Ozone is a suicidal molecule looking for a contaminant to attack, oxidizing it and eventually destroying itself in the process.

Ozone has a very short lifespan and will last 15-20 minutes in ambient temperature before returning to "normal" oxygen.

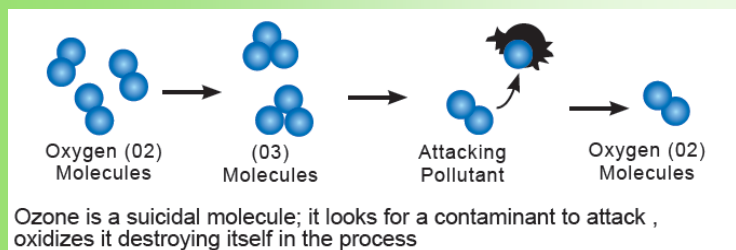
## FG 7500A/15000A /FG 30000A

**UVIAIRE's FG** unit is an Ozone Generator producing high volume of ozone via the corona discharge method.

Air is drawn through a blower fan into the corona plates, powered by high tension transformers.

The oxygen laden air is converted to ozone which is discharged through the nozzle into the desired area where the ozone reacts with contaminants.

It is a scientific breakthrough in odor and light grease control, and is an effective method particularly for elimination unpleasant odors, light oil mist and grease.



### APPLICATIONS:

- \*Kitchen Exhausts
- \*Garbage Rooms
- \*Seafood Storage Area
- \*Fresh Food Stores
- \*Sewage Ventilations
- \*Other Areas with Odour Problems

**However in cases where smoke and heavy oil mist is an issue, electrostatic air cleaners is recommended.**



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The FG unit is a self contained unit with a 100mm diameter nozzle on one end to direct ozone to the required area by means of flexible or rigid ducts. Its small size makes it flexible for installation in various locations. The heart of the unit is mounted in the housing and can be easily removed for service and maintenance by simply removing the PC style AC cord.

As the OG unit produces high levels of ozone, its operations should be interlocked with the exhaust fans for safety reasons. Interlocking component is available as an optional item.



Model	Dimension LxWxH (mm)	weight	Voltage	Power consumption	Ozone Output	Applicable Airflow
<b>FG-7500A</b>	360x200x290	9.70Kg	230VAC	50watts	7,500mg/hr	Up to 7500CMH
<b>FG-15000A</b>	360x200x290	10.30 Kg	230VAC	75watts	15,000mg/hr	Up to 15,000CMH
<b>FG-30000A</b>	450x200x380	14.10 Kg	230VAC	125watts	30,000mg/hr	Up to 30,000CMH

**Remarks:** Air Flow handling capacity depends on odour level. For heavier odour, a ratio of the maximum airflow is considered. Hence the air handling capacity shall be reduced to 0.25 for heavy odour and 0.5 for medium odour problem. For light odour, the maximum airflow capacity applies.

## OPTIONAL ITEMS



**Manual Variable Control Damper.**

Although the FG unit has a blower to help deliver the ozone into the kitchen exhaust duct, it may not be required if the point of entry is upstream and nearer the main exhaust fan. In such cases, the FG blower can be disabled. Should the suction be too strong (more than 3m/s), a Manual Variable Control Damper may be required to control the amount of air being sucked in. The Manual Variable Damper is installed between the FG unit and the flexible or rigid duct leading to the main duct.

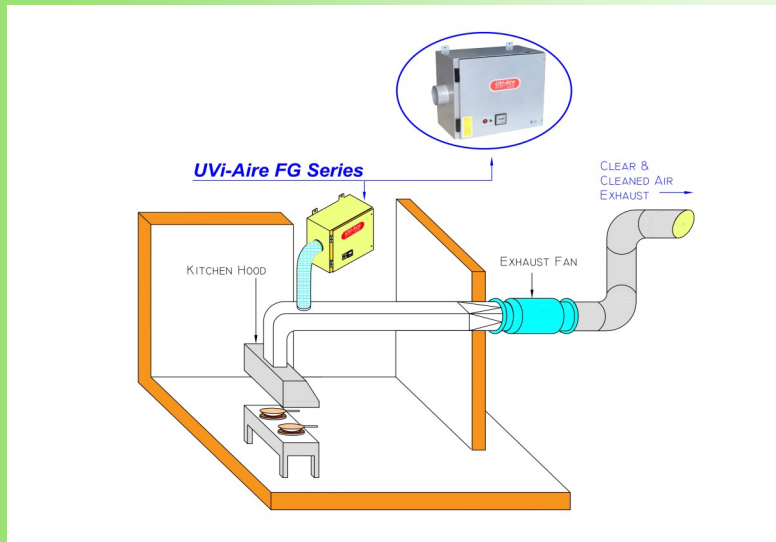


**Interlocking Control Unit  
ICU-FPS-230**

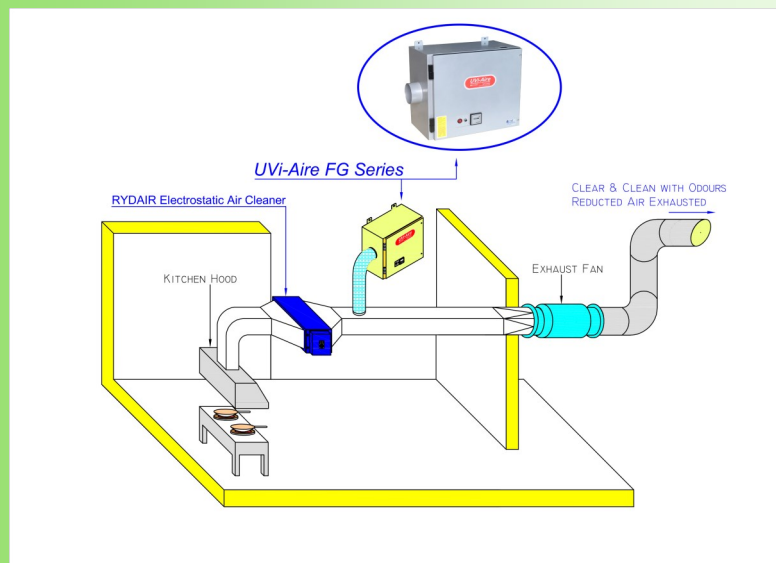
The option for the interlocking signals requirements are: 230VAC 2A. One ICU may be used for up to 5 FG Units

# TYPICAL INSTALLATION

## In Kitchen Exhaust Application



A hose may be used to direct the ozone to the exhaust duct. The FG unit is kept out of the air stream, making it easy for maintenance.



### Maintenance

As ambient air is used to feed the FG units, regular maintenance should be carried out to ensure that the filters, fans, and corona discharge plates are clean. This will affect the units' performance. Regular maintenance will also ensure that parts do not become unusable, thereby saving replacement costs.



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