

YOUR ONE STOP KITCHEN SOLUTION (UVI-GREEN)

99.9%

KILLING RATE OF MICROORGANISMS SUCH AS VIRUS, BACTERIA, YEAST AND FUNGUS.





254nm

185nm

UV GREEN (2 SIZES)

CONTROL GREASE, SMOKE & ODOUR

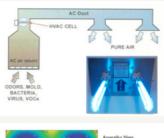


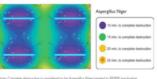
ULTRAVIOLET STERILIZER

DGRH-ETI Series Germicidal UV-C Lamp Sterilizer

This product is designed to help disinfect the internal surfaces of heating, ventilation, and airconditioning systems. Bacteria, viruses and fungus that are in the air stream that passes through the sterilizer will also be reduced. The result is an improved level of indoor air quality for occupants and improved system hygiene.

The ultraviolet (UV-C) radiation (254 nanometers) which has been proven effective in arresting microorganisms such as viruses, bacteria, yeast and fungus. This process either destroys the micro- organism DNA or neutralizes its ability to reproduce







DGRH-ETI -A



DGRH-ETI -B

Model	Net Weight	Cabinet Size L*W*H (MM)	Power Supply	UV tube Qty (PCS)	UV length (MM)	Total Power (W)	Lamp life span (hours)	Operational hours (hours)	Airflow (CMH)
DGRH-ETI- A01	1.4KG	160*290*85	220V 50-60Hz	1	300	50	13000	8000- 9000	1500
DGRH-ETI- A02	1.5KG	160*290*85	220V 50-60Hz	1	450	80	13000	8000- 9000	3000
DGRH-ETI- B01	1.8KG	200*290*85	220V 50-60Hz	2	300	100	13000	8000- 9000	1500
DGRH-ETI- B02	2KG	200*290*85	220V 50-60Hz	2	450	160	13000	8000- 9000	3000

UV/Ozone in cooking ducts

(This is ozone option - 185 nanometers . Standard HVAC UV lamps are ozone free models) Control of grease, smoke and odour in commercial kitchensfrom cooking processes.

Installed in kitchen extraction ductwork in conjunction with filters, UV/Ozone lamps clean the exhaust ducts and hood interior for improved hygieneand reduced cleaning.

Destroys cooking odour, keeps ductwork almost grease free, reduces fire risk, reduces ductwork cleaning to a minimum and is completely automatic in operation.

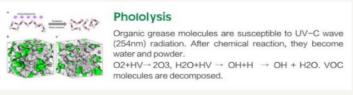
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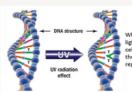
Test Organisms	Test groups	Average number of positive controls (cfu/pcs)	Average number of testing groups (cfu/pcs)	Killing rate (%)	Sterilization logarithm
ALCO TO ALCO TO ALCO TO	100	4.3×10 ⁶	1.2×10 ²	99.91	4.55
Escherichia coli 8099	2	4.5×10 ⁶	1.4×10 ²	99.99	4.50
sind Tesing Lesing Lesing	3	4.4×10 ⁶	1.3×10 ²	99.99	4.53
Gnice Gnice Gnice Gnic	G1 C	4.7×10 ⁶	1.9×10 ²	99.99	4.39
Staphylococcus aureus ATCC 6538	2	4.9×10 ⁶	2.2×10 ²	99.99	4.35
ado ter ado ter ado ter	3	4.8×10 ⁶	1.8×10 ²	99.99	4.42
	1	1.6×10 ⁶	1.0×10 ²	99.99	4.20
Candida albicans ATCC 10231	2	1.8×10 ⁶	1.1×10 ²	99.99	4.22
enico enico enico	3	1.6×10 ⁶	90	99.99	4.25



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MORE Details





When exposing microorganisms to UVC light, the light penetrates through their cell wall and disrupts the structure of their DNA molecules, prohibiting reproduction.

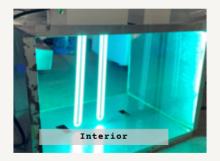




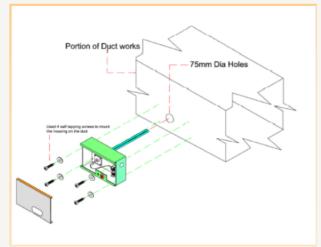


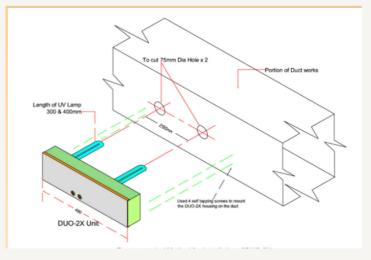


Application Example









Features

UV-C light irradiates duct, coil & air handler interior High output UV-C lamp 99.9% surface disinfection GUARANTEED Sterilizes mold, bacteria, viruses Disinfects coil & drain pan Improves HVAC system efficiency Improves indoor air quality.

Benefits

Easy installation, low maintenance, cost efficitive Extends lifespan of HVAC air system Break DNA of bacteria, mold, viruses and kill them Saving energy by cleaner air system Reduces worker exposure to dangerous chemica



UVI-GREEN HOOD EDITION

DGRH-ETI Series

This product is designed to help remove the cooking smell and grease.



Specifications

Model	Net Weight	Cabinet Size L*W*H (MM)	Airflow(CMH)	UV tube Qty (PCS)	UV length (MM)	Total Power (W)	Lamp life span (hours)	Operational hours (hours)
DGRH-ETI-5000	1.4KG	1220 X 220 X 100	5000	4	300	400	13000	8000-9000
DGRH-ETI-3000	1.5KG	610X 220 X 100	3000	3	450	180	13000	8000-9000

Application

UV/Ozone

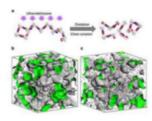
(This is UVC lamp have 254 and 185 nanometers .)

Control of grease, smoke and odour in commercial kitchensfrom cooking processes .

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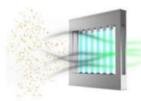
Working Principle



Photolysis

Organic grease molecules are susceptible to UV-C wave (254nm) radiation. After chemical reaction, they become water and powder.

O2+HV \rightarrow 2O3, H2O+HV \rightarrow OH+H \rightarrow OH + H2O. VOC molecules are decomposed.

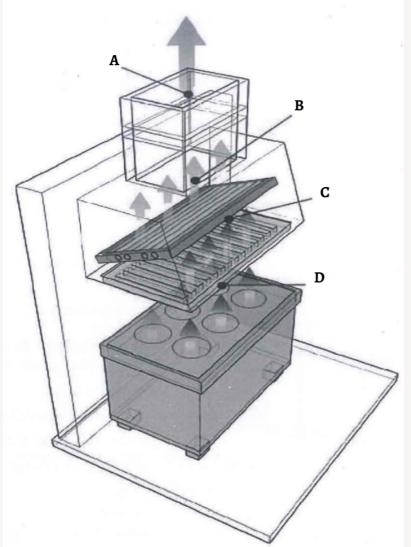


Ozone effect

UV ray (185nm) reacts with oxygen in the air to form ozone. Ozone oxidizes organic odor molecules to become water, carbon dioxide and small amounts of powder.



UVI-GREEN HOOD EDITION



Installation Layout:

- A Exhaust Duct
- B Exhaust Hood
- C UVi-Green Component
- D Exhaust Hood Filter





Advantage:

- *Install and Service easy
- *Low power
- *Well remove the smell and grease



