



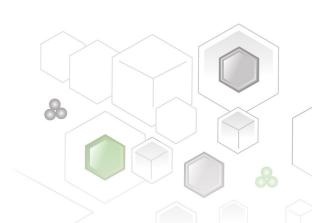
# **PROFESSIONAL**

Innovative Kitchen Concept



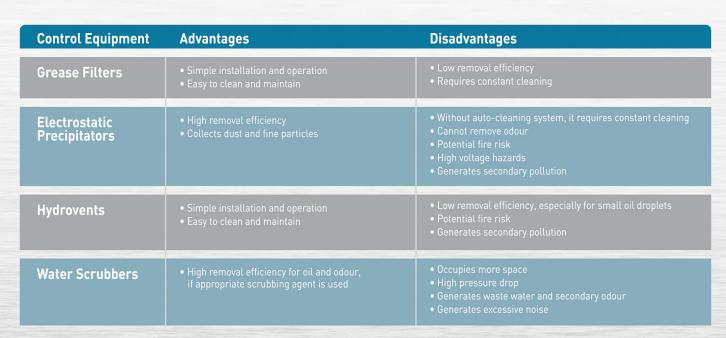






# Principle of BioZone OGR Series





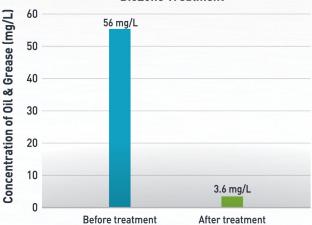
# Performance Analysis of OGR Series

### Case Study

A large-scale food production centre released large amount of cooking odour and fumes from the exhaust system. OGR Device was installed and glass plates were placed inside the exhaust system for collecting oil and grease passing through.







<sup>\*</sup> Validation reports are prepared by SGS Hong Kong Limited.

Also, the odour intensity of cooking exhaust was greatly reduced by olfactory assessment.

### Performance Analysis of OGR Series

#### Performance Test

Performance test for oil mist removal efficiency for BioZone OGR device (3 sets of OGR, 1m) in exhaust hood was done using *PRC National Standard "Emission Standard of Cooking Fume" GB18483-2001 and Test Regulation for Cooking Fume Control Equipment HJ/T62-2001.* 

Results*						
Trial	Sampling Location	Results (mg/dscm)#	Removal Efficiency (%)			
1	Inlet	70.1	91.9			
	Outlet	5.70				
2	Inlet	86.5	95.0			
	Outlet	4.31				

<sup>\*</sup> Test report is prepared by CMA Testing and Certification Laboratories.

# Competitive Features of OGR Series

- · High removal efficiency of oil and grease, significantly reduces duct cleaning
- Minimizes fire hazards, prevent combustible residues accumulating within the kitchen exhaust system and exhaust duct.
- Capable of removing biological, chemical contaminants, residues and unpleasant odours
- Environment-friendly, no secondary contamination
- · Low pressure drop and noise nuisance
- Energy saving
- Easy to install, operate and maintain



<sup>#</sup> Dscm, means dry standard cubic meter, which is corrected to temperature of 273 K and a pressure of 101.3 kilopascals (1 atm).

### **Nominal Specifications**

#### OGR Series (Basic Hood System)

Model:	10-S28100	10-S40100	10-S60100
Air Flow Rate* (CMH):	1,100	1,500	2,300
Electrical Power (W):	145	207	320
Electrical Current (A):	2.1	2.1	2.1
Lamp Length (mm):	700	1,000	1,554
Lamp Diameter (mm):	19	19	19
Operating Temperature:	0-100°C	0-100°C	0-100°C
Lamp Life:	10,000 hours	10,000 hours	10,000 hours

<sup>\*</sup> Calculation based on typical Western commercial kitchens

#### BioZone OGR Modular Ductwork System (MDS)

Model:	MDS44	MDS64	MDS94	MDS66	MDS96		
Dimension L x W x H (mm):	1120 x 470 x 480	1120 x 470 x 680	1120 x 470 x 1030	1620 x 470 x 680	1620 x 470 x 1030		
Lamp Model:	BSI-0GR10-40	BSI-0GR10-40	BSI-0GR10-40	BSI-0GR10-60	BSI-0GR10-60		
No. of Lamp:	2-3	4-6	7-10	4-6	7-10		
Air Flow Rate* (CMH):	2,000-5,000	6,000-10,000	11,000-16,000	9,600-14,400	16,800-24,000		
Electrical Power (W):	420-630	840-1,260	1,470-2,100	1,280-1,920	2,240-3,200		
Electrical Current (A):	4.2-6.3	8.4-12.6	14.7-21.0	8.4-12.6	14.7-21.0		

<sup>\*</sup> Calculation based on typical Western commercial kitchens





#### Grease Filter for OGR Series

500 x 500 x 45 Dimension L x W x H (mm): Pressure Drop: 758.7 Pa

# Validation report is prepared by an accredited third party laboratory; pressure drop is measured at air flow 5 m/s.

This grease filter is specially designed for kitchen hoods that are equipped with OGR Series. It protects people working under the kitchen hoods from UV radiation exposure.





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