LUMENFOCUS

ANTI-VIRAL
ANTI-BACTERIAL

Project: _____
Location: _____
Cat. #: _____
Type: _____
Quantity: _____

LED

GAB LED Germicidal Air Flow Chamber

Features:
- Lays into grid ceiling, provides anti-viral and anti-bacterial cleansing of the air
- Continuous disinfection
- UV chamber mounted in the back of the fixture pulls in air via surface-mounted fans. Air pulled into chamber is cleansed of airborne pathogens (viruses and bacteria) utilizing 260-265nm UVC with a 99-plus % inactivation rate.
- Completely harmless to animals and humans as UVC comes from a chamber recessed into the ceiling, out of view
- Two fan options: normal speed for quieter applications and high speed for greater airflow

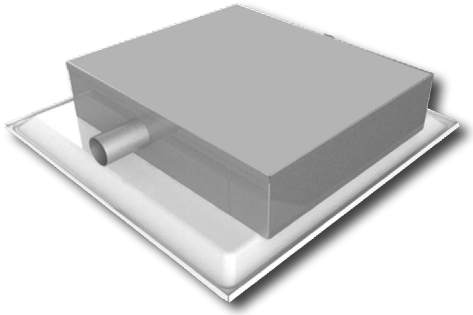
Applications:
Suitable for most commercial and institutional applications
- Office
- Retail
- Classrooms
- Healthcare Facilities
- Labs and clinics

Predicted Lifetime:
- Disinfection chamber lifespan: 30,000 hrs

Construction:
- Aluminum housing

Certifications:
- CE and UL pending

Warranty:
- 260-265nm LED boards in back chamber: 30,000 hours
- Fans: 3 years
- Balance of fixture: 10 years



MADE IN USA
USING DOMESTIC AND FOREIGN COMPONENTS

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illumPure

UVFOCUS

LumenFocus, LLC.
880 Facet Rd.
Henderson, NC 27537
Tel. 252-430-6970

GAB LED Germicidal Air Chamber

Ordering Guide:

example: GAB 22 UV HF W6

Series	Size	Voltage	Fan	-	Options
GAB		UV		-	
GAB	22 24	UV	Blank HF		Blank W6 W10

Size: 22 2'x2'
24 2'x4'

Fan: Blank Normal Volume
HF High Flow

Voltage: UV 120-277V

Options: Blank None
W6 6' Whip
W10 10' Whip

Fan Performance:

Catalog #	Fan CFM
GAB 22 UV	70
GAB 22 UV HF	100
GAB 24 UV	140
GAB 24 UV HF	200

Air changes per hour:

The table below shows the number of air changes per hour (ACH) and time in minutes required for removal efficiencies of 90%, 99% and 99.9% of airborne contaminants.

	Minutes required for a removal efficiency of:		
ACH	90%	99%	99.9%
1	138	276	414
2	69	138	207
3	46	92	138
4	35	69	104
5	28	55	83
6	23	46	69
7	20	39	59
8	17	35	52
9	15	31	46
10	14	28	41
11	13	25	38
12	12	23	35
13	11	21	32
14	10	20	30
15	9	18	28

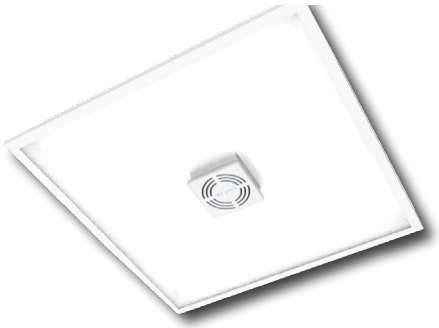
This table has been adapted from the formula for the rate of purging airborne contaimants (99). Values have been derived from the formula $t_1 = [\ln (C_2 \div C_1) \div (Q \div V)] \times 60$, with $T_1 = 0$ and $C_2 \div C_1$ - (removal efficiency ÷ 100), and where:

- t_1 = initial timepoint
- C_1 = initial concentration of contaminant
- C_2 = final concentration of contaminants
- Q = air flow rate (cubic feet per hour)
- V = room volume (cubic feet)
- Q ÷ V = ACH

The times given assume perfect mixing of the air within the space (i.e., mixing factor = 1). However, perfect mixing usually does not occur, and the mixing factor could be as high as 10 if the air distribution is very poor (98). The required time is derived by multiplying the appropriate time from the table by the mixing factor that has been determined for the booth or room.

Total exposed surface area of titanium dioxide (UVC disinfection) within GAC box: <19 feet. Total length covered by air in GAC box: <18 feet.

KILL > 99% OF COVID-19



Note: *UVFocus products are designed utilizing proven germicidal and anti-bacterial technology. UVC 254nm and 260-265nm products work to deactivate most common viruses (as well as bacteria, molds and yeasts), and 405nm near-UV products are shown to substantially reduce bacterial presence. While these products can be considered disinfecting products, they should be used in conjunction with standard, proper disinfecting cleaning procedures to have the greatest impact for maintaining a clean environment. Successful UV disinfection requires a systems approach taking into account dose, optics and safety relevant to the specific application. Please consult with factory any questions or concerns.*

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