

Air purifiers

With different filtration stages

Air purification units
with guaranteed effectiveness

PA
series



PA series



Units with guaranteed effectiveness

For the peace of mind of its clients, DECACLIMA offers a guarantee of quality and effectiveness thanks to the tests and certifications of its units tested in independent laboratories.



Air purification units with certified effectiveness

The air purification units have received the certificate of **anti-viral effectiveness** (100% in 10 minutes) and **against bacteria and fungi** (in 20 minutes), **without ozone emissions**.

The tests were carried out with mengovirus, a microorganism of the same family as SARS-CoV-2.



100% anti-viral effectiveness
in 10 minutes.



Air free of bacteria and fungi
in 20 minutes.



Without ozone emissions



Air purification units PA series

Units specifically designed to clean the air inside any type of space, primarily in high occupancy areas. Also suitable for health applications.



Main characteristics

- G4 (ISO COARSE 60%) and F7 filtering (ePM1 55%)
- EC variable speed fans
- 100% removable for cleaning
- Activated carbon filter
- Final filter F9 (ePM1 80%). 70% efficiency
- Panels with interior insulation

Standard finishes

- Galvanised steel interior/painted exterior
- Modular aluminium structure

Options

- UVc germicidal chamber
- HEPA filtering efficiency 99.995%
- Supply module with 1 grille
- Supply module with 3 grilles
- Wheel assembly
- Radiometer (indicates radiation, hours and percentage)

Configurations

- PAV vertical construction
- PAB horizontal construction

The range has two vertical configurations, ideal for direct mobile use in rooms. It can be connected to 240 V and can incorporate a supply module with outlets on 1 or 3 sides. The horizontal configuration is designed to be installed in false ceilings and connected by ducts to the premises where the air needs to be treated and allows outside air intake.

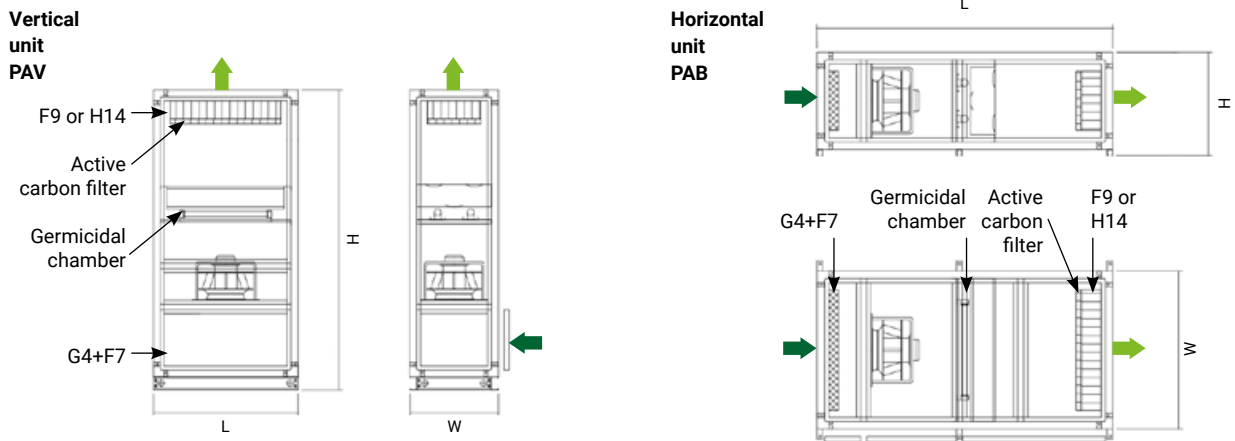
In both cases, these units are equipped with a filter package capable of removing at least 70% of particles larger than 0.4 μm (microns). Optionally, HEPA-type H14 filters can be installed with a minimum retention capacity of 99.995% of particles larger than 0.3 μm (microns). Both versions also incorporate an active carbon stage as standard, intended to remove bad odours produced by the use and occupation of the premises. Finally, it can feature a germicidal chamber constructed based on "C" range UV lamps in a spectrum of 253.7nm, a wave amplitude indicated to deactivate a wide variety of microorganisms. Cellular DNA and RNA absorb short wavelength UVc energy.

Technical characteristics

Model		PAV 1.5 17FG9 UV	PAV 3.0 17FG9 UV	PAV 4.5 17FG9 UV	PAV 6.0 17FG9 UV	PAB 1.5 17FG9 UV	PAB 3.0 17FG9 UV	PAB 4.5 17FG9 UV	PAB 6.0 17FG9 UV
FLOW RATE	m ³ /h	1500	3000	4500	6000	1500	3000	4500	6000
	CFM	883	1766	2649	3531	883	1766	2649	3531
AVAILABLE PRESSURE	PA ¹	300	300	300	300	300	300	300	300
POWER SUPPLY	V	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz
NOISE LEVEL	dB ²	47	51	55	59	47	52	55	59
FAN	TYPE	PLUG FAN EC	PLUG FAN EC	PLUG FAN EC	PLUG FAN EC	PLUG FAN EC	PLUG FAN EC	PLUG FAN EC	PLUG FAN EC
	kW	0.78	1.35	2.7	2 x 2.7	0.78	1.56	2.7	2 x 2.7
UVc	Units	3	7	4	14	3	2	4	4
	W ³	21	49	70	98	21	51	70	102

¹ Available pressure given with G4 and F9 filter. / ² Noise levels calculated at 1 m from the unit. / ³ Effective power of UVc radiation.

Dimensions mm



Model		PAV 1.5 17FG9 UV	PAV 3.0 17FG9 UV	PAV 4.5 17FG9 UV	PAV 6.0 17FG9 UV	PAB 1.5 17FG9 UV	PAB 3.0 17FG9 UV	PAB 4.5 17FG9 UV	PAB 6.0 17FG9 UV
LENGTH (L)	mm	774	774	1079	1504	1450	1450	1450	1450
WIDTH (W)	mm	474	779	779	779	774	1366	1079	1366
HEIGHT (H)	mm	1600	1600	1600	1600	474	474	779	779
SUPPLY MODULE	mm	324	490	490	490	-	-	-	-
BASE WEIGHT	kg	113	140	190	215	108	138	135	155
UVc MODULE	kg	5	5	6	14	5	6	9	10
SUPPLY MODULE	kg	25	33	42	55	-	-	-	-

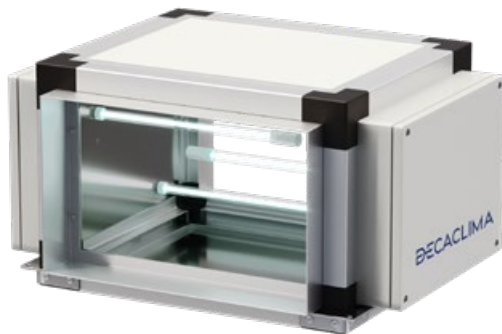
*Data subject to change without prior warning

Optional air outlet modules



Germicidal modules for ducts

Units specifically designed for insertion in ducts and to clean the air inside any type of space, primarily in high occupancy areas. The range can be connected to 240 V, with easy installation in false ceilings.



Unit constructed with “C” range UV lamps in a spectrum of 253.7 nm, wave amplitude indicated to deactivate a wide variety of microorganisms.

Cellular DNA and RNA absorb short wavelength UVc energy. UVGI technology has proven 99% effective in controlling microbial growth in the coil and drain pan area when installed correctly.

Main characteristics

- UVc lamps
- Panels with interior insulation
- Lugs for easy suspension
- Nozzles for easy installation in the duct
- Galvanised steel interior/painted exterior
- Modular aluminium structure

Options

- Radiometer (indicates radiation, hours and percentage)

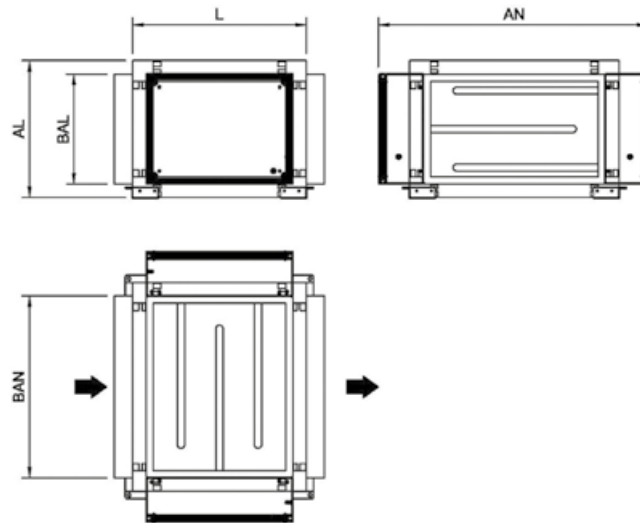
Technical characteristics

Model		MGC 800 UV	MGC 1.200 UV	MGC 2.000 UV	MGC 3.000 UV	MGC 5.000 UV
FLOW RATE	m ³ /h	800	1200	2000	3000	5000
	CFM	471	706	1177	1766	2943
POWER SUPPLY	V	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz	I-200-230 V 50/60 Hz
UVc	Units	2	4	6	10	12
	W*	14	28	42	70	84

* Effective power of UVc radiation

* Data subject to change without prior warning

Dimensions mm



Model		MGC 800 UV	MGC 1.200 UV	MGC 2.000 UV	MGC 3.000 UV	MGC 5.000 UV
LENGTH (L)	mm	376	376	476	476	676
WIDTH (W)	mm	517	660	740	1040	1140
HEIGHT (H)	mm	276	276	376	376	476
NOZZLE (BAL)	mm	202	202	302	302	402
NOZZLE (BAN)	mm	400	500	500	800	900
WEIGHT	kg	15	21	29	37	50

*Data subject to change without prior warning

Radiometers

Equipment that allows you to monitor radiation levels (in $\mu\text{W}/\text{cm}^2$) and set the percentages to the desired level from 0 to 100%. Includes an operating hour counter for the unit and irradiation monitoring for units in critical applications. The radiometer ensures that the UVc lamps are working correctly.

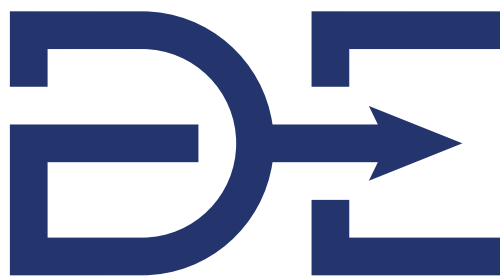


ABSOLUTE MAXIMUM RATES

Parameter	Value		Comments
	Min.	Max.	
Supply voltage (V)	9	24	*Only 5 V (optional)
Supply current (A)		0.2	
Operating temperature ($^{\circ}\text{C}$)	-15	65	

CHARACTERISTICS AT 25°C

Parameter	Value		Comments
	Min.	Max.	
Detection range (nm)	220	280	10% peak
Detection power range ($\mu\text{W}/\text{cm}^2$)	1	2,500	



Innovation in air
treatment units

DECACLIMA COMFORT SOLUTIONS, S.L.

Avda. del Castell, 31
08570 Torelló (Barcelona)
Tel. +34 930 130 703
info@decaclima.com
www.decaclima.com

