

# I-GEL

## I-GEL Fan Filter Unit



The I GEL is a smart FFU which is propelled by an ECM motor. The Fan is a combination of perfect motor manufactured by "GE" and an excellent impeller acoustic box.

The I GEL provides a constant airflow 0.2-0.7 m/s over a wide range of static pressure.

### ECM Technology (in option only available for DC version)

Automatic regulation of air flow performed by software control.

ECM fan technology descriptive:

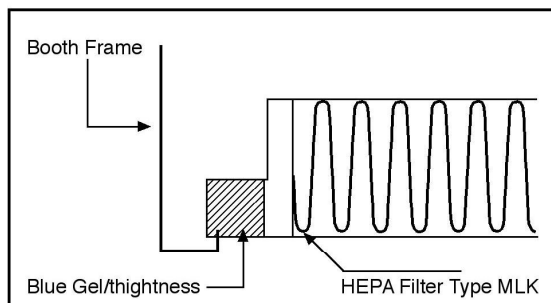
The microprocessor integrated to the fan, analyses many parameters such as intensity, couple, motor velocity in order to define a break event point corresponding to the software control "Eol 2".

Moreover, this kind of units are equipped with a "Tac Viewer" system which allows to visualize different parameters: air flow velocity, air flow rate, pressure. It also allows to control the fan stop, the normal velocity of functioning and two levels of standby velocity

This type of Units may be adapted on our modular clean rooms system, the "T-Bar".

### MAINTENANCE

Thanks to its conception, the replacement of the absolute filter is excuted underneath the unit (very easy and fast maintenance from inside your clean room).



Very low noise  
Level (48 Dba)

Low consumption  
80W

ECM motor

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## Technical Data

### 1 - main filtration blue gel filter type MLK

Efficiency EN 1822	H-14	U-15
MPPS efficiency	99.995%	99.9995%
Max continuous temp	80°C	80°C
Max relative humidity	100%	100%

### 2 - Prefiltration - Amer-B-20-24-1-C

Efficiency EN 779:2002	G-2
Average mean arrestance	85%
Initial pressure drop	<20Pa

### Ventilation

1 Fan	
Normal use	80W, 800rpm
Power	1/3 HP
Rotation velocity	1000 rpm (max)
Noise catcher include	48 dBA

### I GEL ECM

Air speed	Fan			Sound Level
	Absorbed power			
m/s	V	W	A	dBa
0.35	230	34	0.27	38.3
0.45	230	58	0.44	43.7
0.55	230	88	0.64	46.8

ORDER N°

I GEL

Hanging hooks	N	No hanging hooks
	H	Hanging hooks
Gasket	0	No Gasket
	1	Neoprene gasket
Grik	P	Pointed metal
	X	Stainless steel
Structure	A	Coated aluminium
	X	Stainless steel 304L
Motor type	AC	AC Motor
	DC	DC Motor
Size code	660	600x600mmx400mm
	670	600x752mmx440mm
	690	600x905mmx440mm
	612	600x1210mmx440mm
Efficiency	14	H-14@EN1822
	15	U-15@EN1822

❶ Any dimensions or Special order can be manufactured on demand.

Flow air filters has a policy of continuous product research and development and reserves the right to change design and specifications without notice (ver 04)