



The FanJet and Igel are our latest generation of Fan Filter Units. Their DC motor with ECM (Electronically Commutated Motor) motor from General Electric, permits to assure automatically a constant air flow and energy saving.

Their aluminum and epoxy painted frame with noise catcher and insulation guarantee the best laminarity of the flow with a very reduce noise level.

## Fan Filter Units (FFU) I-GEL and FANJET

### ECM Technology (available in DC motors only)

Thanks to ECM technology, the motor speed and power consumption are monitored. The motor changes its speed (the air flow) according to the increasing or reducing of the pressure drop.

The technology permits an auto regulation of the motor which give the possibility to keep a constant air flow without the need of gauges. The Fan filter can be controlled by a preprogrammed controller installed in the front of the cleanroom, by the software "EOL2" from lemmens or by a general building system type Modbus from Honeywell.

### Advantages

- The DC motor with ECM technology is more precise and efficient than an AC motor. The measurements are internal and do not depend of external measuring instruments, using the internal electronic card.
- Several parameters can be analyzed at the same time as: Intensity, Coupling and motor speed.
- Energy saving - Lower electrical consumption than the regular AC motor - 30 to 40% less
- Low noise level thanks to the integrated noise catchers between 48 dba to 54 dba

	FAN JET 6/12		FAN JET 12/12		IGEL 6/12	
Model	Regular Maintenance				ROOM SIDE REPLACEABLE	
Fan	DC Motor From GE with ECM technology				DC Motor From GE with ECM technology	
Pre Filter	1x MERV 5		2x MERV 5		1x MERV 5	
	W 04 20/24/1		W 04 14/24/2		W 04 20/24/1	
Supply Filter DOP 99,999% @ 0,3µm	M14 6/12/250 for Fan Jet		M14 12/12/250 for Fan Jet		MK 14 6/12 for IGEL – Blue Gel Gasket	
Maximal temperature	131°F	55°C	131°F	55°C	131°F	55°C
Maximal hygrometry	80%		80%		80%	
Noise level 100 fpm (0,45m/s)	47 dB(A) in false ceiling		47 dB(A) in false ceiling		47 dB(A) in false ceiling	
	To maximum 54 dB(A)		To maximum 54 dB(A)		To maximum 54 dB(A)	

### FanJet 6/12 and 12/12 + Igel 6/12 sizes

	FAN JET 6/12				FAN JET 12/12				IGEL 6/12			
	Actual Size		Nominal size		Actual size		Nominal size		Actual Size		Nominal size	
Lenght	47,6''	1210mm	47,8''	1215mm	45,6''	1160mm	47,6''	1210mm	45,5''	1157mm	47,6''	1210mm
Width	23,6''	600mm	23,8''	605mm	45,6''	1160mm	47,6''	1210mm	21,5''	547mm	23,6''	600mm
Height	9,8''	250mm	13,9''	353mm	6''	150mm	18,7''	475mm	15''	400mm	16,9''	431mm
Weight	66 lbs		30 kg		143 lbs		65 kg		76 lbs		34,5 kg	

### FanJet 6/12 and 12/12 + Igel 6/12 performances

	FAN JET 6/12		FAN JET 12/12		IGEL 12/12	
	USA	International	USA	International	USA	International
Nominal Air Flow	471 cfm	800 m3/h	1058 cfm	1800 m3/h	471 cfm	800 m3/h
Maximal Air Flow	706 cfm	1200m3/h	1765 cfm	3000 m3/h	706 cfm	1200m3/h
Initial pressure drop	0.4''wg	100 pa	0.8''wg	120pa	0.4''wg	100 pa
Clogging pressure drop	1''wg	250 pa	1.2''wg	300pa	1''wg	250 pa
Maximum pressure drop	1.2''wg	300pa	2.6''wg	400pa	1.2''wg	300pa

### FanJet 6/12 and 12/12+ Igel 6/12 electrical characteristics

	FAN JET 6/12		FAN JET 12/12		IGEL 12/12	
	110 v + ground	220 v + ground	110 v + ground	220 v + ground	110 v + ground	220 v + ground
I nominal ≈	2A	1A	3,5A	1,7A	c	1,7A
I max ≈	5A	2,5A	12,8A	6,4A	12,8A	6,4A
I start up ≈	5A	4A	13A	10A	13A	10A
Protection	5A curve D	4A curve D	5A curve D	4A curve D	5A curve D	4A curve D
Nominal power ≈	150W	150W	300W	300W	300W	300W
Maximal power ≈	400W	400W	700W	700W	700W	700W

### FanJet and Igel DH reference for order

Efficiency code	DOP EFFICIENCY	Size Code	Available sizes			Frame Code	Fan Code	Hanging hooks Code
			Length	Width	Height			
14	99.999%	6/6	23.8	23.8	13.9	A	DC	ECM technology
15	99.9999%	6/7	23.8	25.8	13.9	X		
		6/9	23.8	35.9	13.9			
		6/12	23.8	47.8	13.9			
		12/12 (Fan Jet only)	47.6	47.6	18.7			
Grid Code								
P	Epoxy						N	Without
X	Stainless steel						H	With
L (Fan Jet only)	Laminator							

FILTER CODE	EFFICIENCY CODE	SIZE CODE	FRAME CODE	FAN CODE	GRID CODE	HANGING HOOKS CODE
FANJET						
IGEL						