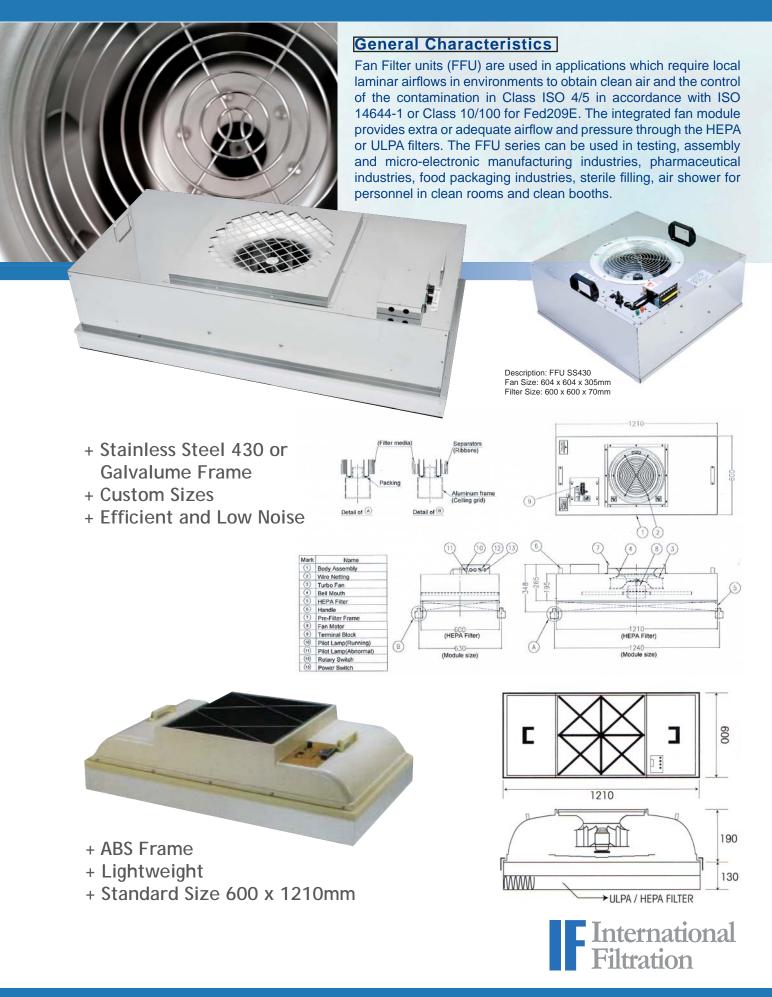
Fan Filter Units FFU

HEPA Filters with fan modules for terminal modules and clean rooms



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HEPA Filters with fan modules for terminal modules and cleanrooms

Specifications

Minipleat HEPA	99.99%@0.3um		99.999%@0.3um		99.9995%@0.1-0.2um	
	Standard Cap	High Cap (90mm)	Standard Cap	High Cap (90mm)	Standard Cap	High Cap (90mm)
Initial Pressure Drop Pa @ 0.45m/s	120	90	130	100	160	120
Filter Class to EN1822	H13		H14		U15	
IES RP-CC-001.3	Type A/C		Type D		Type F	
EN1822 MPPS Global/ Integral value	≥99.95%		≥99.995%		≥99.9995%	
PSL/ PAO/ DEHS/ DOP @ 0.3um	≥99.99%		≥99.999%			
Performance data is based on IES RP-CC-001.3 and EN1822. Test meth + ASHRAE 52.76 - Dust Arrestance refers to range of coarse particle sit + IES RP-CC-001.3 - HEPA grade of Photometer Penetration Leak test Gasket of 5mm thickness are provided downstream of filters	zes of 5um	+ A	d information SHRAE 52.1-1992 N1822 Particle Cou	- Dust Spot Efficien		f fine particles range

Dimensions

Model		ABS FFU	FFU SS	FFU SS	FFU EC SS
External Dimensions (WxLxH) mm		600 x 1210 x 320	604 x 1214 x 340	604 x 604 x 375	574 x 1174 x 340
Filter Dimensions (WxLxH) mm		600 x 1210 x 130	600 x 1210 x 70	600 x 600 x 70	570x1170x70
Filter Class to EN1822		HEPA H13 99.99%@0.3um / ULPA U15 99.9995%@0.1-0.2um			-0.2um
Rated Air Flow for H13 99.99%@0.3um	m³/h	1020 (600cfm)@120Pa		550 @120Pa	900 @120Pa
Rated Air Flow for U15 99.9995%@0.1-0.2um	m³/h	1020 (600cfm)@160Pa		550 @160Pa	900 @160Pa
Material		ABS	Stainless Steel 430	SS430	SS430
Electrical		Sing	le Phase AC220/240V - 5	OHz	
Rated Power, Rated Ampere			150W / 0.65A +/-20%		100W or 0.5A+/-20%,
Sound Level +/-3.0 dB(A) at 1.5m		<60.0	<52.0	<52.0	<55.0
Speed Control		Variable	3 step	3 step	Electronic Control /PC
Weight kg		18	21 + 6	18 + 4	21 + 6
Average Velocity m/s		0.35-0.55	0.35-0.55	0.35-0.55	0.25-0.45
Pre-filter Average Dust Weight Arrestance		with FC Al Frame	Optional FC AI Fr	ame at 75%/ G3	

Specifications Tested with Airflow at 0.40m/s or 1020cmh

Technical Data

Filter Media

Micro Fibreglass Paper

Fan Enclosing Frame

Stainless Steel 430, ABS, Galvalume

Filter Enclosing Frame

Extruded Anodised Aluminium

Separator	Sealant
Hotmelt	Hotmelt / PU
Gasket	Filter Faceguard
Rubber	Aluminium

Continuous Operating Temperature 50°C **Relative Humidity** 90% **Recommended Final Pressure Drop** 250 Pa

Maximum Final Pressure Drop

Construction

Filter Media

Micro Fibreglass fibre paper folded and pleated in consistent calibrated spacing using thermoplastic threads

Fan Frame

Fan Body plenum in ABS, Stainless Steel 430 or Galvalume body

Filter Frame

Filter frame in anodised extruded Aluminium natural colour

Structure

These modules are made by upper fan body ABS jointed or Stainless Steel Frame with the interior filter element with a depth of 130mm or 70mm or 90mm frame. For ABS, the fan body and filter is attached by plastic straps

Fan

High performance centrifugal fan with radial exhaust, statically and dynamically balanced, backward curved impeller directly connected to the motor

Motor

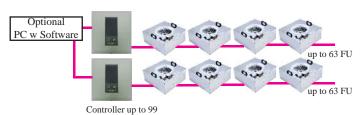
External motor type with pre-lubricated ball-bearings and class B insulation. Single phase electrical supply 220-240V/ 50Hz and electronic control with factory connected capacitor. Low rated power of 150watt

Speed Control

Variable or step speed control of airflow capacities

Option

FFU can come with Replaceable HEPA module



450 Pa

FFU EC with DC motor

External DC motor type with electronic control. Low rated power of 100watts

Speed Control

Fan units using Electronic Control using Controller up to group of 63 units. Expandable groups by using more

Optional PC software using PC can be integrated.

