

# Fan Filter Unit (FFU)

A Fan Filter Unit (FFU) is an air filtration system with an independent power source, typically mounted on the ceiling of cleanrooms. Its primary function is to maintain the levels of particulates and contaminants in cleanroom air through internal high-efficiency filters, ensuring product quality and the accuracy of experimental results.



## PRODUCT DETAILS

DC Motor Series	F-44EH
Wind Speed	0.45m/s ( 89 /FPM )
Total Static Pressure	310 Pa
Cleanliness Level	10-level, 100-level, 1000-level,custom upon request
Power	150W
Noise	53.5 dB
Vibration	0.8 mm/s
Temperature	5°C~40°C
Humidity	≤85%RH (No moisture condensation)

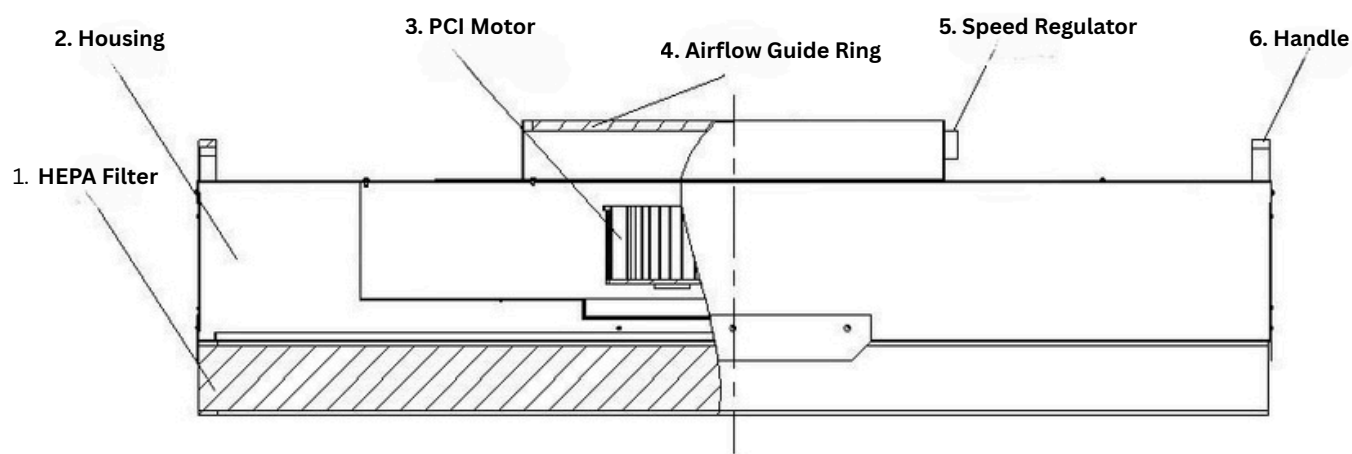
- The wind speed values in the table are test values measured 0.15 m below the filter.
- The noise testing point in the table is located 1.5 m below the center of the HEPA outlet.
- The FFU power in the table is the power under the initial operating conditions of the FFU.
- Customized non-standard sizes are available for users.

# PRODUCT PARAMETERS

INTERNATIONAL STANDARD									
Overall dimensions (L*W*D mm)	Rated air volume and (m³/h) (m/s)	Initial resistance (Pa)		Noise (dB)	Power (kw)				
		Counting Efficiency (H14) 0.3um ≥ 99.995%	Counting Efficiency (U15) 0.1um ≥ 99.9995%						
		1175*575*350	1000/0.45			100	160	57	0.18
		1175*875*350	1500/0.45					60	0.25
1175*1175*350	2000/0.45	63	0.37						
U.S STANDARD									
Overall dimensions (L*W*D inch)	Rated air volume and (ft³/h) (FPM)	Initial Resistance (in W.G)		Noise (dB)	Power (kw)				
		Counting Efficiency (H14) 0.3um ≥ 99.995%	Counting Efficiency (U15) 0.1um ≥ 99.9995%						
		46.3*22.6*13.8	589/89			0.4	0.64	57	0.18
		46.3*34.4*13.8	883/89					60	0.25
46.3*46.3*13.8	1177/89	63	0.37						

- Other specifications and models can be made according to user needs beyond the table

## CROSS-SECTIONAL VIEW OF AMORAIR FFU



- HEPA Filter:** H14 (99.999@0.3um) U16 (99.99995@0.12um)
- Housing:** Galvalume steel /aluminum/stainless steel/custom upon request
- PIC Motor:** DC Backward Centrifugal Fans
- Airflow Guide Ring:** Optimize the distribution and direction of airflow
- Speed Regulator:** Stepless Speed Regulation / Step Speed Regulation
- Handle:** Lightweight handle for easy installation and transportation