

Fan Filter Unit

Fan Filter Unit (FFU)

Fan Filter Unit (FFU) is a type of motorized air filtering equipment. It is used to supply purified air to clean rooms, laboratories, medical facilities or micro-environments by removing harmful airborne particles from recirculating air. The units are installed within the system's ceiling or floor grid.

Large clean rooms require a proportionally large number of fan filter units, which in some cases may range from several hundred to several thousand units often contain their own pre-filter, HEPA filter and internally controllable fan air distribution.

Fan filter units (FFUs) are typically manufactured in 1175x575mm steel housing, which can be placed in ceiling grid bays of similar dimensions units often contain HEPA filter and fan. A motorized fan is used to pull air through the filters for distribution to rooms or enclosed work stations such as hoods. Fan speed is typically controlled via a step-wise or rheostat motor adjustment. Desired cleanliness levels determine the filter used HEPA filter remove particles 0.3um. FFUs are engineered for laminar airflow, as is required in critical environments. Controlled air flowing in a uniform direction and speed is cleaner than turbulent air that flows in multiple directions or at inconsistent speeds. Eddies created by turbulent air cause contaminating micro-particles to settle on clean surfaces.

Material for casing: Cold Rolled steel with powder coated/galvanized aluminum sheet/SUS#201 or 304

Blower fan: AC220V/50HZ/1PH

Air velocity: 0.35-0.6 m/s adjustable

Noise: about 60bBA

Optional: Control panel, Remote control, PRE filter, Pressure gauge

Features:

- 1.Low energy consumption
- 2.Low noise
- 3.Uniform velocity and large airflow
- 4.Can remote controlled by computer or LCD touch screen



Sizes and specifications

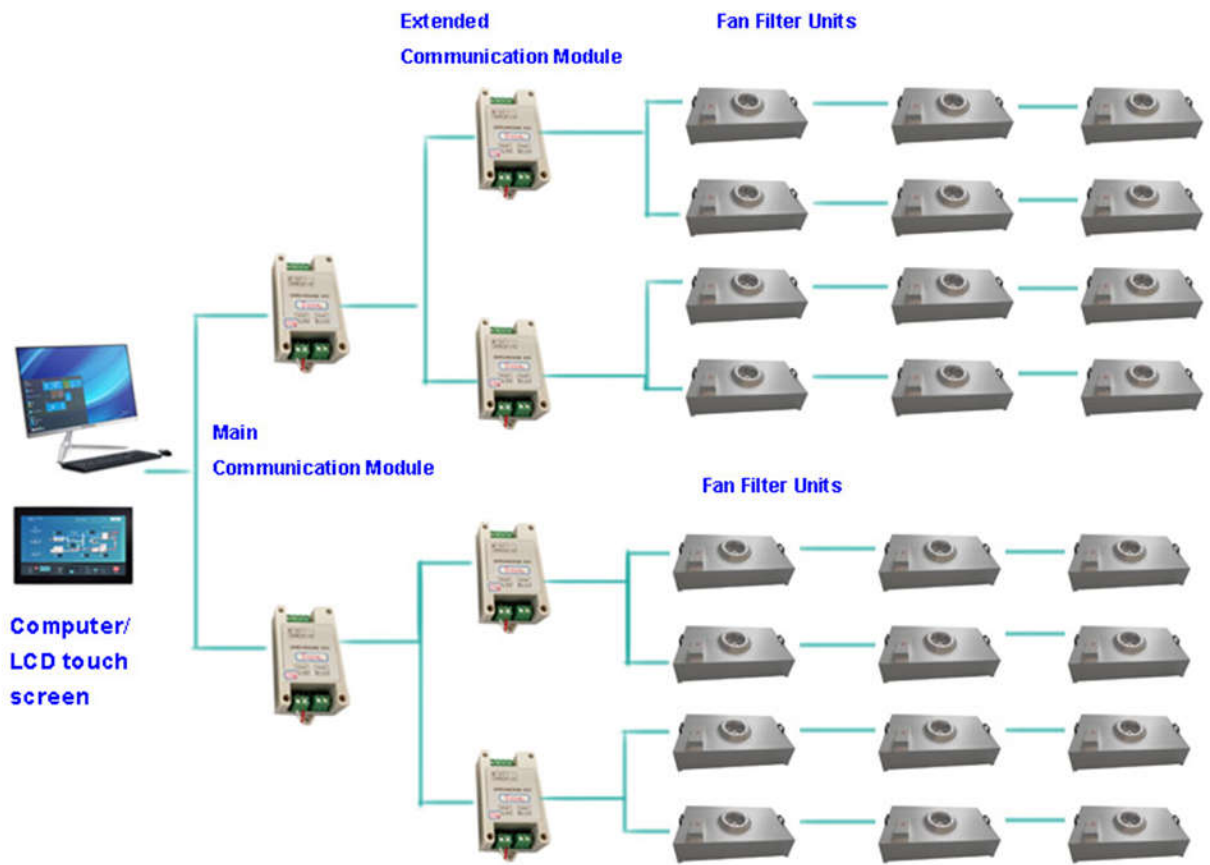
Model		HT-FFU610	HT-FFU915	HT-FFU1170	HT-FFU1220
Size for cabinet(mm)		610x610	915x610	1170x570	1220x610
Material		Cold Rolled steel with powder coated/galvanized aluminum sheet/SUS#201 or 304			
Air flow(m3/h)		600	900	1080	1200
Air velocity		0.35-0.6 m/s			
ESP		80-120pa			
HEPA filter	Size(mm)	610x610x69	915x610x69	1170x570x69	1220x610x69
	Frame	Aluminum profile			
	Media	Fiberglass			
	Efficiency	H13 @0.3um			
	Pressure Drop	≤220pa			
Pre filter	Size(mm)	495x495x21			
	Frame	Aluminum profile			
	Media	Non-woven fabric			
	Efficiency	G3			
	Pressure Drop	30pa			
Fan (motor)	Power	AC 220V/50Hz/single phase			
Optional		Control panel, Remote control, PRE filter, Pressure gauge			
Noise(dB)		≤50	≤50	≤52	≤53
Weight(KG)		22	24	28	32

If require large quantities of Fan Filter Units for Clean room, suggest adopt DC motor and group control, it is low noise, economic, energy-saving.





Computer group control



FFU in clean room project

