

Static elimination, dust clean type Fan Filter Unit **KU-50**



Static
Elimination



Dust
Clean



WiFi
Monitoring



Temperature and
Humidity Display



Dust
Inspect



Motor Abnormal
Operation Alarm



Filter
Abnormal Alarm



HV
Alarm

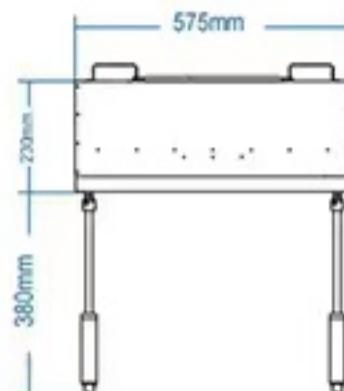
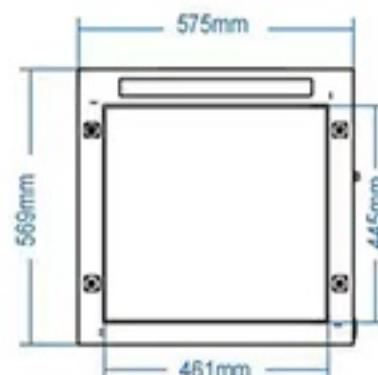
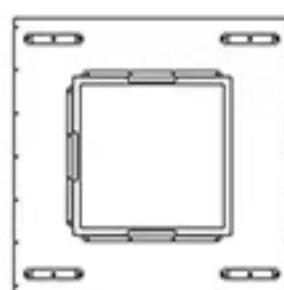


Easy
Installation



More

Surface structure



Technical Parameters

Model	KU-50	Noise	39-65 dB
Input voltage	220 VAC, 50/60 Hz	Power consumption	10-120W
Output voltage	0-20 kVDC/each electrode; positive and negative voltage can be adjust for one of the electrode	Material	SUS304 / Galvanized zinc
Controller	Remote control and wifi monitoring	Filter material	Glass fiber filter
Interface	Air plug of the ionizer	Power	220V 50/60 Hz
Output adjustment	The stability of the ion generated and ion balance can be achieved by adjusting one of the ionizers	Impeller material	Aluminium alloy
Material of spray needle	Monocrystalline silicon or Tungsten	Filter efficiency	99.99% 0.3μm
Ion generator	DC type, Ion balance $\leq \pm 3\text{V}$ adjustable	Control method	PWM
Effective distance	Ionizer within 500-2000mm	Operation status	Power indicator, Normal running, Abnormal indicator, Speed display, Temperature and Humidity indicator, Dust/particle indicator
Wifi monitoring method	LoRa+NB-IoT	Motor protect	Overload and excessive heating protect
Temperature and humidity sensor	Temperature: -40-125°C $\pm 0.3^\circ\text{C}$ Humidity: 0%-100%RH $\pm 1.5\%$ RH	Differential pressure sensor	Range: 100-1000Pa
Compliance with cleanliness	Monocrystalline silicon	Dust sensor	Range: 1-500 $\mu\text{g}/\text{m}^3$
Alarm	HV abnormal alarm; Fan abnormal alarm	Motor speed	750 RPM
Ozone	<0.008 ppm	Filter size	491x475x30mm
Operate environment	Humidity 15%-75% (No condensation) Temperature 0-40°C	FFU size	575x575x280mm (HV rod excluded)
		Air flow speed	0.54 m/s
		Weight	21.5kg

Note: All the FFU parameters listed in above table is the initial data, can be customized according to user's size

Display

DC ion generate way
Fast ion neutralization
Ion balance $\leq \pm 3\text{V}$
Ion balance adjustable
In red after power connected
In green for normal running

Speed: 750 RPM
In red if the fan motor alarm

LoRa+NB-IoT
Real-time monitor data
Wifi indicator

Air volume display

Filter efficiency:
99.99% 0.3μm
Yellow indicator
when filter clean
Red indicator and buzz
when exchange the filter

Red indicator
when HV alarm

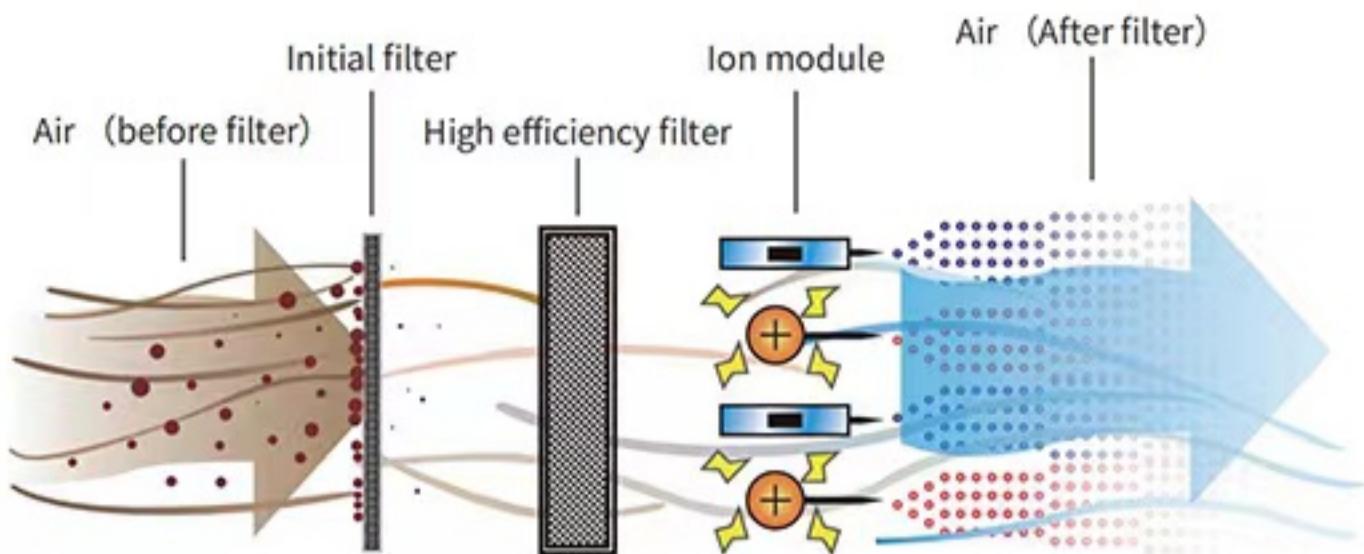
Infrared sensing area



Temperature indicator
Humidity indicator
Dust/particle indicator
Range: 1-500 $\mu\text{g}/\text{m}^3$

Temperature: -40-125°C $\pm 0.3^\circ\text{C}$
Humidity: 0%-100%RH $\pm 1.5\%$ RH

Operational principle



Effect contrast



Applications

