

BFN-711S-L

Single-Head Display DC Ion Fan

The BFN-711S-L Single-Head Display DC Ion Fan Utilizes DC Static Elimination Technology. It Features a Touch-button Design, a High-airflow Fan With Five-speed Adjustment, Stable Performance, and an Output Airflow Rate 1.45 Times Higher Than Ordinary Fans. It Includes an LCD Display, Showing ion Balance, Supports Smart Remote Control, and Enables Network Monitoring.



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► Features:

- Touch-button Switch for Convenient and Quick Operation; Multiple air Outlets, Each with 8 ion Needles for High ion Generation.
- Automatic Needle Cleaning Upon Startup, and by Default Every 4 Hours Thereafter, Eliminating Manual Needle Cleaning Maintenance.
- High-airflow Fan with Five-speed Adjustment, Output Airflow Rate 1.45 Times Higher Than Ordinary Fans, Ensuring Stable Performance.
- Equipped with an LCD Display, Showing Device Address, Fan Speed Level, Cleaning Cycle, Temperature/Humidity, Cleaning Prompt, Fan Fault Alarm, and High-voltage Fault Alarm.
- Real-time Display of Balance Voltage for Each air Outlet, with Alarms if Exceeding Set Thresholds; Outputs Alarm Prompt When High-voltage Fault is 0V.
- Features Automatic ion Balance Function, With a Self-balancing Range of $\pm 10V$, and Real-time Display of Balance Voltage; Negative High-voltage Amplitude can be Remotely Adjusted for ion Balance Voltage Tuning.
- When Fan, ion Balance, or High-voltage Faults Occur, the Display Outputs Fault Alarms and the LED Emits Red Light for Alert.
- Ion Output Characteristics can be Adjusted Via Remote Control; Supports Wired Network Communication for Monitoring Fan Status.
- Magnetic Suction Mesh Cover, Power Cuts off Immediately Upon Mesh Detachment; CE Certified with Electromagnetic Protection Function.

Application Scope

Widely Applicable In Industries Such As Electronics, Optoelectronics, Semiconductor, Etc.

Product Parameters

Product Model	BFN-711S-L		
Input Voltage	DC 24V (RJ45 Interface)	Ion Balance	$\pm 10V$
Power	12W	Discharge Time	$\leq 1.5s$ (300mm Directly Below Outlet)
Output Voltage	DC $\pm 4KV \rightarrow \pm 6KV$	Operating Environment	Temp: $0^{\circ}C \sim 50^{\circ}C$, Humidity: $< 70\%RH$
Ion Emission	Pulsed DC	Dimensions	180*84*200.5mm (LWH)
Emitter Electrode	Tungsten	Housing Material	Powder-coated Aluminum
Discharge Range	750*300mm (LW)	Warranty	1 Year
Air Volume	$\leq 135CFM*1$	Certification	CE
Ozone Concentration	$\leq 0.05ppm$ (150mm From Outlet)	Communication Mode	RS485
Audio Noise	Single Outlet $\leq 58dBA$ (1000mm From Outlet)	Status Indicator	At Startup, Cleaning Running - Blue Light Flashes
Net Weight	1.35kg (Fan Body & Mounting Bracket Only)		Normal Operation - Green Light (Constant Monitoring State)
Signal Output	RS485 (115200bps, 8, 1, n, n) $\geq 20ms$ Open Collector: $< 50V$, 100mA		Fan Fault Alarm - Red Light on
Adapter Power	Input: AC100 - 240V 50/60Hz Output: DC24V 2A (Dual RJ45 Interface)		Balance Voltage Exceeding Alarm - Red Light Flashes
Installation Accessories	1 Pair U-Shaped Powder-Coated Aluminum Mounting Brackets 1 Pair Bakelite Screw Handles (M5x8)		High-voltage Fault Alarm - Red Light Flashes
			Infrared Debugging / Cleaning Prompt - Blue Light Flashes