

# ION BAR

## SIB4 Series





Auto. Duty Slim Ion Bar



▶ Ion Bar SIB4 Series



### Key Features

- Depending on the polarity, automatically distributes/controls ion - Auto. Duty (SIB4) 
- With slim body, diverse installation is possible
- Maximized the ion creation via reducing loss of corona discharging
- Tip Cleaning Alarm (internal timer installed - possible to set tip cleaning period)
- Output voltage control (8~12.5kVp-p) 
- Power jumping function within ion bars (Max. 4 ion bar links) 
- Aerodynamic design nozzle socket reduces tip contamination
- One-touch in/out socket application 
- Simple to swap new tips & Easy cleaning
- Fulfilled standization of the least Air consumption (Newly designed Socket minimized the air consumption but maximized the air pressure)

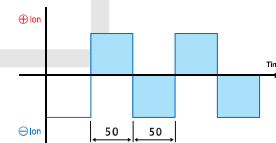
### ▶ SIB4 Series



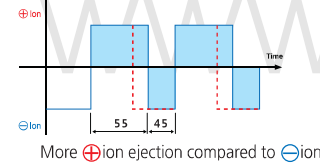
<One-Touch style Nozzle>

### Auto. Duty

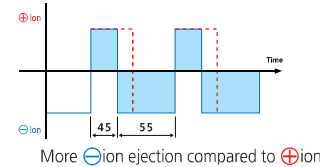
- Initial Setting



- Negative-polar target object



- Positive-polar target object



\*But, the distance from ion bar to target object should be within 100mm, voltage level of target object should exceed 13KV

- Any biased polarity occurs, Auto Ion Volume Function controls the equal distribution of both positive and negative polarities

### Specifications

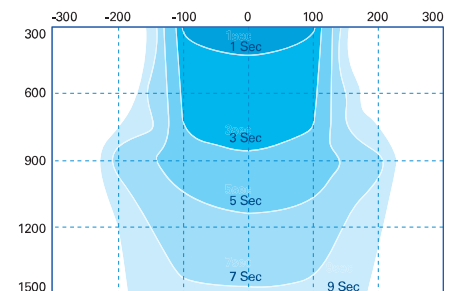
#### ▶ SIB4 Series

Model	SIB4 Series	Remarks
Input Power	DC24V (±5%)	RJ45
Power Consumption	Max.12W	
Ion-Generation Method	Corona Discharge Pulse AC	
Air Purge Supply Pressure	0.1 ~ 0.5 MPa	Clean Dry Air, N <sub>2</sub>
Air Purge Connection Port	Pipe Thread 1/8"	
Ion Balance	within ±30V	1,000mm
Ozone(O <sub>3</sub> ) Concentration	≤0.05ppm	
Main Body Material	Non-Flammable ABS	Level V0
Electrode Material	Standard	Tungsten
	Option	Silicon
Emitter Replacement	Cartridge Type	
Operation Circumstance	0°C ~ +50°C (32°F ~ 122°F), 35% ~ 85% RH	
Dimensions	Please Refer to Dimension Drawing	
Mounting Method	Bolt Mounting with Bracket	
Function	Remote Control	
	Frequency [Hz]	0.1, 0.3, 1, 3, 5, 8, 10, 20, 30, 50 (10Steps)
Adjust Voltage [Level]	Positive 1 ~ 10, Negative 1 ~ 10	
Function Duty Ratio [%]	40 ~ 70	
Auto Duty	Mode Set	Distance 50~100mm
Alarm Function	HV Abnormal Alarm, Tip Cleaning Alarm(Setting)	
	Input	Remote
Interface	Output	Run State, RS485, Alarm(HV Abnormal, Tip Cleaning)
	Operating Distance	50~2,000mm
Option	RMS (Real Monitoring System) / SBARD (DC Power Supply)	
Warranty	1 Year(After 1 year of your purchase)	

### Decay Time Characteristics

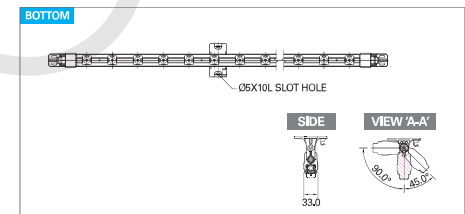
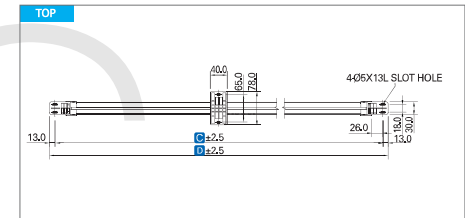
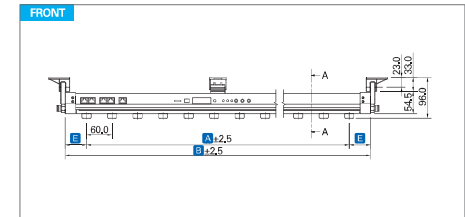
#### ▶ Test Conditions

- Model: SIB4-1000
- Socket : SIE-4
- Output Voltage : Pulse AC ±10.5kVp-p
- Air Pressure : 0.3MPa
- Decay Time : ±1,000V to ±100V
- Temperature & Humidity : 24°C ± 1°C, 40% ± 2%RH
- Charge Plate Capacitance : 20pF ± 2pF (150 X 150mm)
- Frequency : 30 Hz



### Dimensions

#### ▶ Ion Bar (SIB4 Series)



#### ▶ [Model : SIB4-800~3200] Dimensions

No.	MODEL No.	MODEL / DIMENSION				
		A	B	C	D	E
1	SIB4-800	660	900	851	877	70
2	SIB4-900	780	881	932	968	50.5
3	SIB4-1000	900	1001	1052	1078	50.5
4	SIB4-1200	1140	1241	1292	1318	50.5
5	SIB4-1300	1260	1361	1412	1438	50.5
6	SIB4-1500	1380	1481	1532	1558	50.5
7	SIB4-1600	1500	1601	1652	1678	50.5
8	SIB4-1700	1620	1721	1772	1798	50.5
9	SIB4-1800	1740	1841	1892	1918	50.5
10	SIB4-2000	1860	1961	2012	2038	50.5
11	SIB4-2100	1980	2081	2132	2158	50.5
12	SIB4-2200	2100	2201	2252	2278	50.5
13	SIB4-2300	2220	2321	2372	2398	50.5
14	SIB4-2500	2340	2441	2492	2518	50.5
15	SIB4-2700	2580	2681	2732	2758	50.5
16	SIB4-3000	2820	2921	2972	2998	50.5
17	SIB4-3200	3060	3161	3212	3238	50.5

Soft X-ray Ionizer

Ion Bar

Ion Blower

Ion Nozzle

Measurement & Monitoring System

Real Monitoring System

Dust Collector

Soft X-ray Ionizer

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