

All about electrostatics, our know-how is yours!

The Next Generation

ION BAR



SIB4 Series

Corona discharge loss is minimized through various specification and digital control system and this product provides high performance, low ion balance.

Also, wide range of ionization is possible through optimum ion generating design.



Key Features

- Depending on the polarity, ion generation auto controlled
- With its 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 among ion bars (Max. 4 ion bar links)
- Aerodynamic design nozzle socket reduces tip contamination
- One-touch in/out socket application
- Tip cleaning device (Option)
- Design for minimum air consumption (Newly designed socket minimized the air consumption but maximized the air pressure)

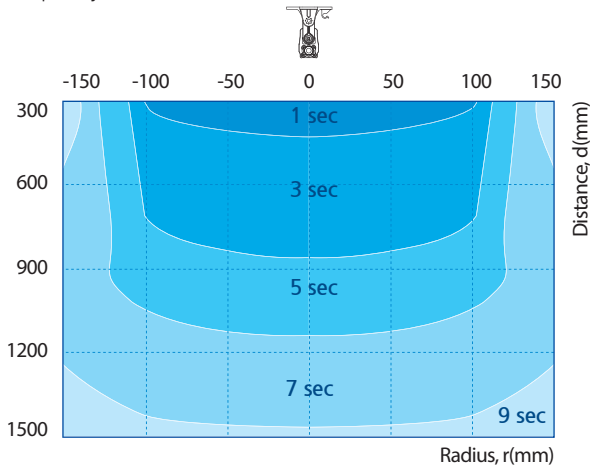
Specifications

Parameter		Description / Value
Input Power		DC 24V (±5%)
Power Consumption		Max. 14.4W
Current Consumption		Max. 500mA (DC 24V)
Ion-Generation Method		Corona Discharge Pulse AC
Air Purge Supply Pressure		0.1 ~ 0.5MPa (CDA, N2)
Air Purge Connection Port		Pipe Thread 1/8"
Ion Balance		Within ±30V (1,000mm)
Ozone(O3) Concentration		≤0.05ppm
Main Body Material		Non-Flammable ABS (Level V0)
Electrode Material	Standard	Tungsten
	Option	Titanium, Silicon
Electrode Replacement		Cartridge type
Operation Circumstance		0°C~+50°C(32°F~122°F), 35%~85% RH
Mounting Method		Bolt Mounting with Bracket
Function		Remote Control
Adjust Function	Frequency [Hz]	0.1, 0.3, 1, 3, 5, 8, 10, 20, 30, 35, 40, 45, 50
	Voltage [Level]	Positive 1~10, Negative 1~10
	Duty Ratio [%]	40~70
	Auto Duty	Mode Set (Distance 50~100mm)
Alarm Function		High Voltage Abnormal Alarm, Tip Cleaning Alarm(Setting)
Interface		Run State, Remote, RS485, Alarm (High Voltage Abnormal, Tip Cleaning)
Operating Distance		50 ~ 2,000mm
Option		RMS (Real Monitoring System) SBP-RD (DC Power Supply)
Warranty		1 year

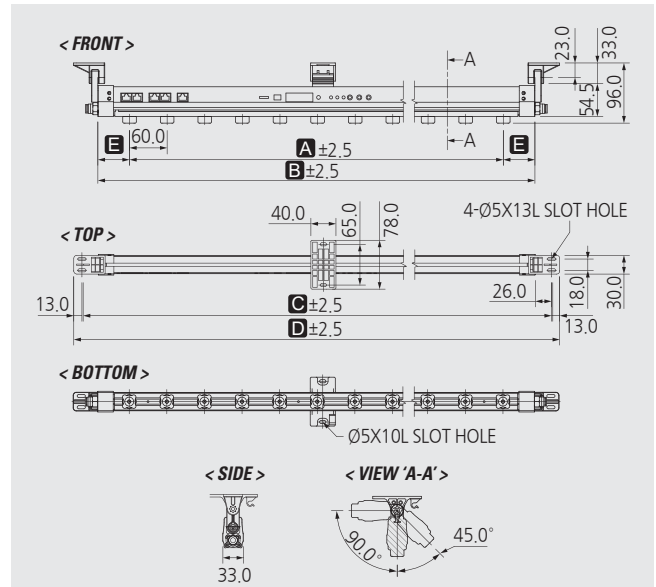
- * Product model number will be differ as the discharge needle specifications. ex. Tungsten : SIB4-**** / Silicon : SIB4-****-SI / Titanium : SIB4-****-TI
- * The appearance and specification of the product may be changed without prior notice for the improvement of the product.

Decay Time Characteristics

- 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 : 30Hz



Dimensions



No.	Model No.	Tip QTY	A	B	C	D	E	Middle BKT QTY
1	SIB4-800	12	660	800	851	877	70	-
2	SIB4-900	14	780	881	932	958	50.5	-
3	SIB4-1000	16	900	1001	1052	1078	50.5	1
4	SIB4-1100	18	1020	1121	1172	1198	50.5	1
5	SIB4-1200	20	1140	1241	1292	1318	50.5	1
6	SIB4-1300	22	1260	1361	1412	1438	50.5	1
7	SIB4-1500	24	1380	1481	1532	1558	50.5	1
8	SIB4-1600	26	1500	1601	1652	1678	50.5	1
9	SIB4-1700	28	1620	1721	1772	1798	50.5	2
10	SIB4-1800	30	1740	1841	1892	1918	50.5	2
11	SIB4-2000	32	1860	1961	2012	2038	50.5	2
12	SIB4-2100	34	1980	2081	2132	2158	50.5	2
13	SIB4-2200	36	2100	2201	2252	2278	50.5	2
14	SIB4-2300	38	2220	2321	2372	2398	50.5	2
15	SIB4-2500	40	2340	2441	2492	2518	50.5	3
16	SIB4-2700	44	2580	2681	2732	2758	50.5	3
17	SIB4-3000	48	2820	2921	2972	2998	50.5	3
18	SIB4-3200	52	3060	3161	3212	3238	50.5	3
19	SIB4-3400	56	3300	3401	3452	3478	50.5	3

Maintenance

▶ Discharge needle cleaning order

1. Be sure to power off before cleaning the ionizer.
2. Please clean it as the table below.

Cleaning with a cotton swab	Cleaning with a brush	Ultrasonic cleaning
After moistening a cotton swab with alcohol, wipe the discharge needle from side to side with the swab. (do not use acetone)	Spray alcohol on the brush and use it to clean the discharge needle.	Separate the socket and clean it using an ultrasonic cleaner. (Do not wash for more than 2 minutes) (Water:Alcohol = 9:1 ratio)

3. Replace the damaged discharge needle.
4. After the cleaning, let the alcohol applied to the discharge needle surface evaporate completely and then operate the Ion Bar.
5. Please record the cleaning process as a reference in the file.