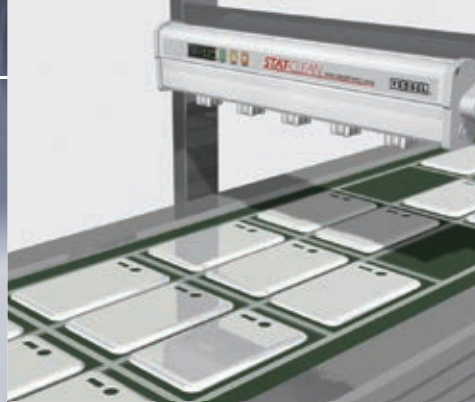


No. C-40

AC Pulse Ionizing Clean Bar



Aerodynamic body design of the thin cross sectional area enables quick static electricity elimination to be achieved without causing changes in air flow in a clean room or above in a clean bench. Being capable of setting frequency in 10 levels as well as being equipped with auto ion balance mode in which ion balance is automatically adjusted according to the polarity of a charged object, these ionizers can make adjustments according to the installation distance or the amount of charge.



No. C-40

AC Pulse Ionizing Clean Bar

Bar-type ionizers best suited to mounting to a variety of equipment Air purge construction enables super-fast static electricity removal to be accomplished. With a line-up of abundant sizes, they respond to various applications.

Frequency setting

Installation place	Location	mm	Frequency, Hz
Film/conveyor	Close distance	50~300	20~50
Clean bench	Intermediate distance	600~750	8~10
Clean room ceiling	Long distance	900~1500	0.1~5

C-series

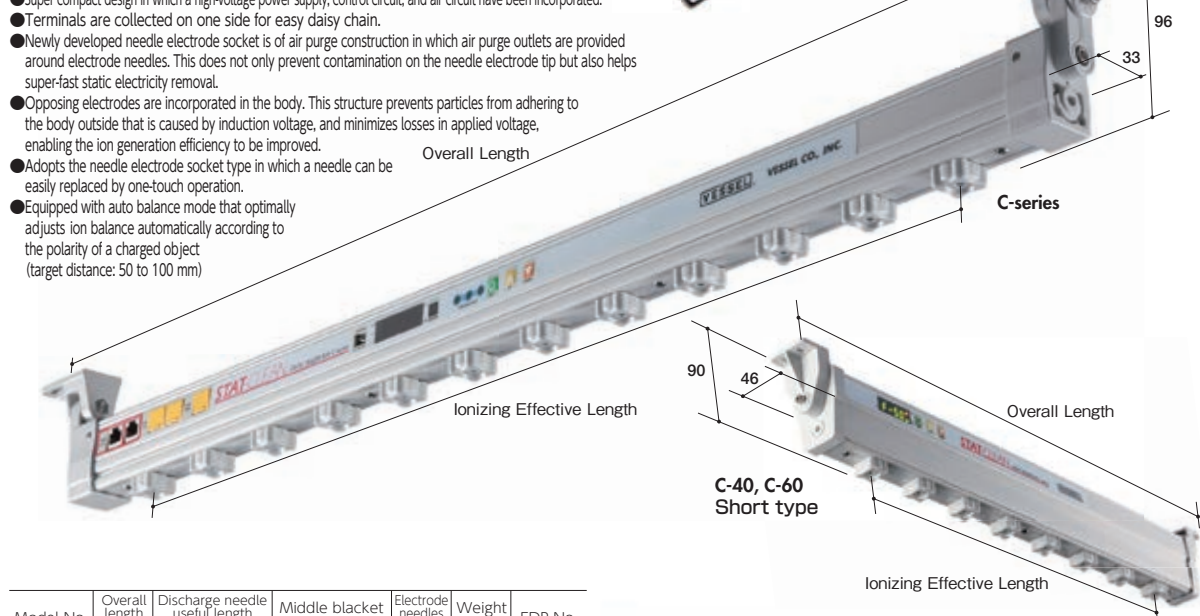
No. C-series AC Pulse Ionizing Clean Bar

Ionizing method: Pluse AC corona discharge Applied voltage: 8~12.5kVAC (p-p)

- Super compact design in which a high-voltage power supply, control circuit, and air circuit have been incorporated.
- Terminals are collected on one side for easy daisy chain.
- Newly developed needle electrode socket is of air purge construction in which air purge outlets are provided around electrode needles. This does not only prevent contamination on the needle electrode tip but also helps super-fast static electricity removal.
- Opposing electrodes are incorporated in the body. This structure prevents particles from adhering to the body outside that is caused by induction voltage, and minimizes losses in applied voltage, enabling the ion generation efficiency to be improved.
- Adopts the needle electrode socket type in which a needle can be easily replaced by one-touch operation.
- Equipped with auto balance mode that optimally adjusts ion balance automatically according to the polarity of a charged object (target distance: 50 to 100 mm)



*Accessories :
AC cable (5m)
Remote Control RMC-01 (Except C-40/C-60)
End brackets 2pcs,
Middle bracket (Quantity See below)



Model No.	Overall length (mm)	Discharge needle useful length (mm)	Middle bracket (pcs)	Electrode needles (pcs)	Weight (kg)	EDP No.
C-90	877	660	0	12	0.9	621851
C-100	1078	900	1	16	1	621852
C-120	1318	1140	1	20	1.2	621853
C-150	1558	1380	1	24	1.4	621854
C-170	1798	1620	2	28	1.6	621855
C-200	2038	1860	2	32	1.8	621856
C-220	2278	2100	2	36	2.3	621859
C-250	2518	2340	3	40	2.6	621860
C-270	2758	2580	3	44	2.8	621861
C-300	2998	2820	3	48	3.1	621862

Power supply	Current consumption (mA) max.	Decay time ※	Frequency	Pulse ratio	Voltage level
24VDC±5%	600	within 0.8sec	10steps (0.1~50Hz)	+ : 40~70% - : 60~30%	±10steps each

※Decay time :30Hz 10.5kVp-p 300mm directly below at 0.3MPa
 *Air supply pressure: 0 to 0.3MPa. Air supply hose diameter Φ8×Φ6mm (Air supply port: PT1/8)
 *Accessories: Remote controller, Power cable (10m), End brackets (included with device), Middle brackets (included with device) (except C-90)
 *Option: AC Adapter AD24-ITE, AD24-IT19E, Power Supply cable (5m)CT-5

No. C-40/C-60 AC Pulse Ionizing Clean Bar

Ionizing method: Pluse AC corona discharge Applied voltage: 8~12.5kVAC (p-p)

- Short type optimal for installation on a conveyor or in equipment.
- Consolidated terminals on the back side. Power can be supplied by daisy chain wiring.

Model No.	Overall length (mm)	Discharge needle useful length (mm)	Electrode needles (pcs)	Weight (kg)	EDP No.
C-40	422	240	5	0.78	621857
C-60	602	420	8	1.08	621858

Power supply	Current consumption (mA) max.	Decay time ※	Frequency	Pulse ratio	Voltage level
24VDC±5%	600	within 0.8sec	10steps (0.1~50Hz)	+ : 40~70% - : 60~30%	±10steps each

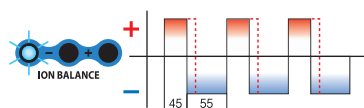
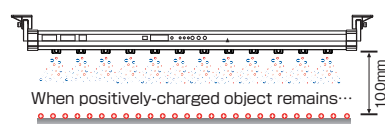
※Decay time :30Hz 10.5kVp-p 300mm directly below at 0.3MPa
 *Air supply pressure: 0 to 0.3MPa. Air supply hose diameter Φ8×Φ6mm (Air supply port: PT1/8)
 *Accessories: Power cable (10m), End brackets (included with device), Interface cable (10m)
 *Option: AC Adapter AD24-ITE, AD24-IT19E, Power Supply cable (5m)CT-5

One point

AC Pulse Auto Balance Mode

The C series are equipped with a mode to optimally adjust the ion balance automatically according to the polarity of the charged object. (Target distance: 50 to 100 mm)

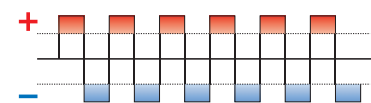
※C-series



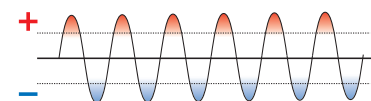
More negative ions are generated.

AC pulse method

Generating alternately positive ions and negative ions from each electrode. Since ions are generated at the maximum width of each positive and negative electrode cycle, the ion volume is high and static electricity can be removed quickly.



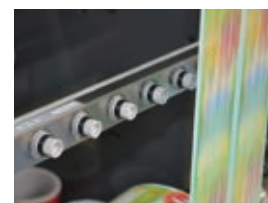
Typical alternating current



No. SL-series Ionizing Bar NEW

Ionizing method : AC high voltage applied type Applied voltage : 4kVAC

- Compact & slim body designed.
- Detachable discharge needle & high-voltage cable.
- Changing an angle after the installation is available by the bracket.
- High-voltage power supply(No.GP-1) as an option makes it possible to control the removal of electricity precisely.



Discharge needles can be cleaned and replaced while the ionizing bar remains installed.



SL-30

Power supply	Ion Balance	Decey Time	Operating range (mm)	Air flow (l/min)
High Voltage Power Supply Unit No.GP-1 4kV(Optional)	Adjustable on the GT-1 4kV	1 second or less	50~2000	135

*Air pressure:~0.3MPa -Decay time : Distance 300mm

Accessory : Grounding wire

Options : Connecting cable GP-EC25, GP-EC5, SJ-EC2.5, SJ-EC5, Needle electrode unit SJ-00HR

Model No.	Overall length (mm)	Discharge needle useful length (mm)	Electrode needles (pcs)	Weight (g)	EDP No.
SL-20	211	138	3	200	621877
SL-30	371	298	7	300	621878
SL-50	531	458	11	700	621879
SL-80	851	778	19	900	621880
SL-120	1,171	1,098	27	1,100	621881
SL-150	1,491	1,418	35	2,000	621882
SL-180	1,811	1,738	43	2,200	621883

Ion balance: within 50V, Decay time: within 1.0sec., Airflow: 135l/min

Relevant : High Voltage Power Supply No.GP-1 4kV, Power Adapter No.AD24-GPE

Connecting cable (2.5m) No.GP-EC25, Connecting cable (5m) No.GP-EC5

Needle electrode unit No.SL-00HR, Branch box No.SH-SP2

No. GP-1 4kV High Voltage Power Supply Unit NEW

Output voltage : 4kVAC (50/60Hz)

- Detects high voltage by an anomaly detection circuit.
- Can adjust ion balance with adjusting volumes.



Model No.	Power supply	Size (mm)	Weight (g)	EDP No.
GP-1 4kV	24VDC±10%	233.5×114.2×102.8	4500	623044

*Applicable:HPN-1, HPG-1, HPF-1, SL-series

*Relevant: Power Adapter No.AD24-GPE

No. SH-G3 Power supply units

Ionizing method : Pluse AC corona discharge Applied voltage: 5kVAC p-p

- Equipped with two sockets for connecting the SL ionizing bars. They can be installed and wired easily.
- With the ion balance adjustment function (pulse ratio).
- Equipped with a safety circuit that shuts down the output if overcurrent or high-voltage error occurs.
- Lightest-weight body in the industry: 1.5kg.



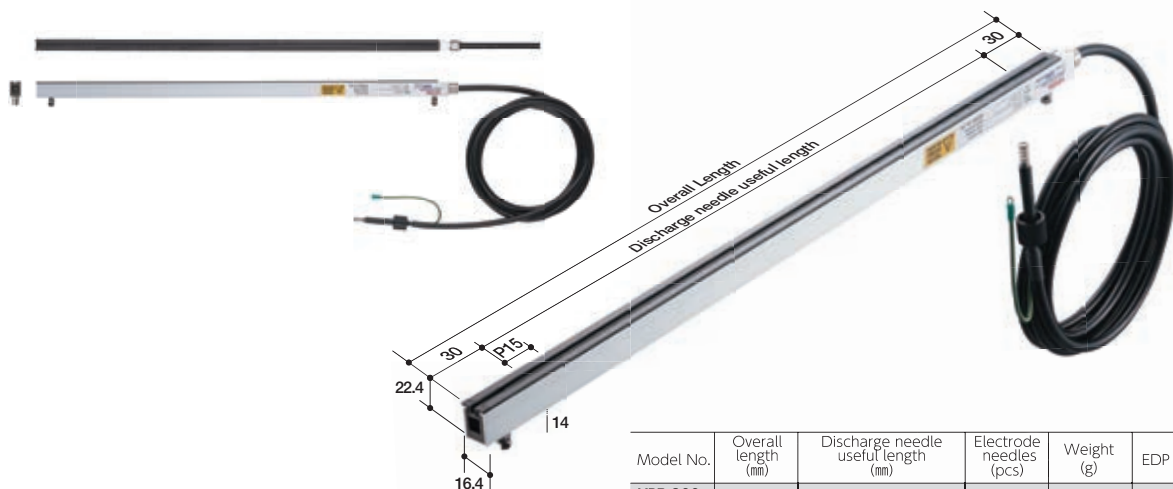
Model No.	Input power supply	Power consumption (W)	Frequency (Hz)	Plus ratio	Weight (kg)	EDP No.
SH-G3	100~240V AC (50/60Hz)	10	30	±: 40~70% ±: 60~30%	1.5	621555

Accessories: AC Power cable 1.8m(for 100VAC and input) 2cables

No. HPB-series High Power Ionizing Bar **NEW**

Ionizing method : AC corona discharge Applied voltage : AC3.5kV (50/60Hz)

- Super slim model, optimum for installation in a cramped space of equipment.
- Titanium needle electrode, with less electric corrosion wear.
- Ion balance adjustment, Anomaly detection, Automatic stop, and Alarm output can be set with the high voltage power unit No. GP-1 4kV (option).
- Air Assist Bar is also available as option.



Power supply	Ion Balance	Decey Time	Operating range (mm)	Air flow (ℓ/min)
High Voltage Power Supply Unit No.GP-1 4kV(option)	Adjustable on the GT-1 4kV	1 second or less	50~2000	135

·Air pressure---0.3MPa ·Decay time : Distance 300mm

Accessory : Grounding wire

Options : Connecting cable GP-EC25, GP-EC5, SJ-EC2.5, SJ-EC5, Needle electrode unit SJ-00HR

Model No.	Overall length (mm)	Discharge needle useful length (mm)	Electrode needles (pcs)	Weight (g)	EDP No.
HPB-300	300	240	17	501	623316
HPB-600	600	540	37	662	623336
HPB-810	810	750	51	774	623350
HPB-1005	1,005	945	64	879	623363
HPB-1200	1,200	1,140	77	988	623376
HPB-1500	1,500	1,440	97	1,148	623396
HPB-1800	1,800	1,740	117	1,309	623416

Contents: High voltage cable (3m) (already mounted), Mounting bolt M5 (already mounted)

Applicable: GP-1 4kV

Relevant : High Voltage Power Supply No.GP-1 4kV, Power Adapter No.AD24-GPE

One point For highly charged or fast moving products

Titanium discharge needles

A titanium needle is more wear-resistant and have a longer lifetime than a regular stainless steel.

The needles are located every 15mm on the bar, allowing to generate many ions effectively. This design is suitable for a high speed application.

Super Slim

The sectional dimensions: 16.4 x 22.4mm. Can be installed even in a cramped space.

Mounting Bolts (M5)

2 pieces (standard accessory, included).

1 more every time the total length exceeds 1 m.

Dedicated High Voltage Power Unit

Use No. GP-1 4kV.



High Voltage Shielded Cable

As the high voltage cable is shielded, there is no need for further ground.

