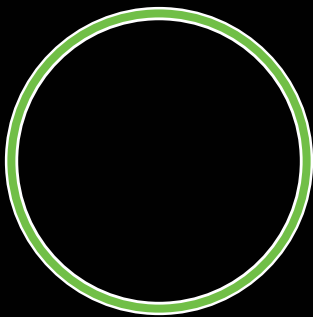
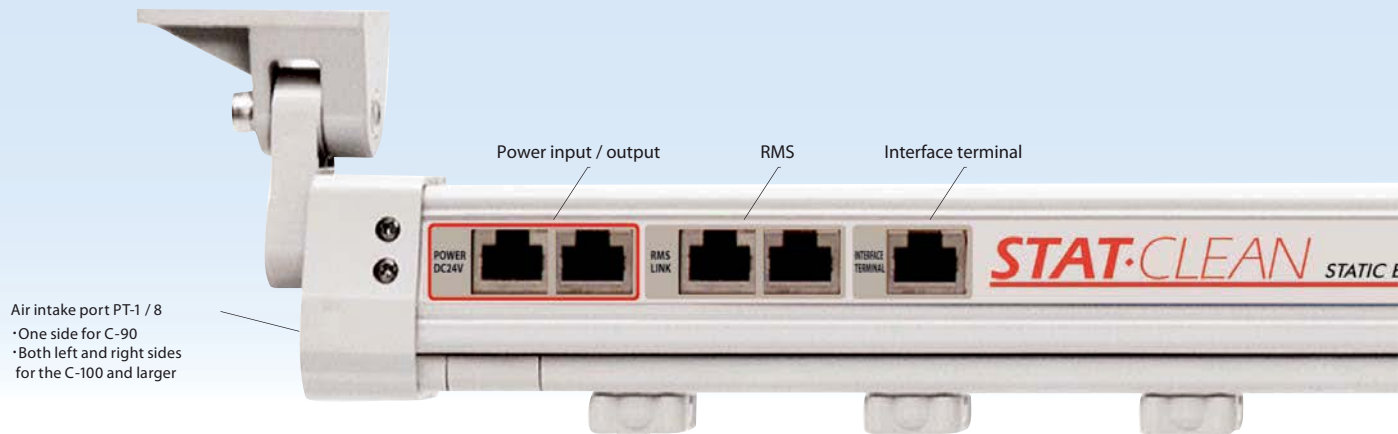


automax®



STAT·CLEAN ***C series Ion Bar***

AC Pulse Ionizing Clean Bar



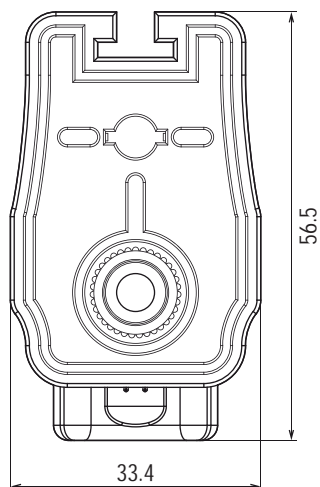
COMPACT

Super Compact Design

NEW

Slim & lightweight body

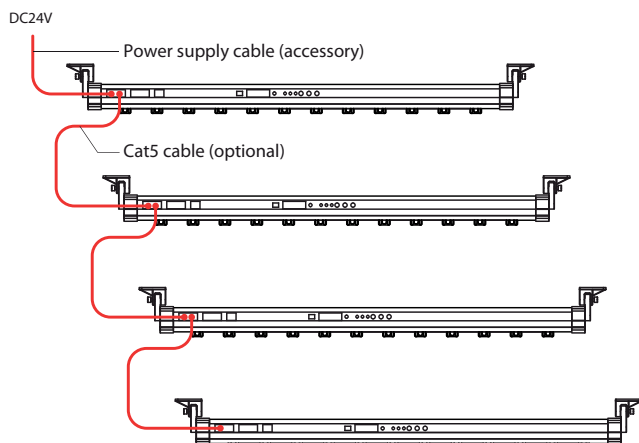
Super-compact design having high-voltage power supply, control circuit and air circuit inside.
(Actual size shown on right)



NEW

Terminals grouped on one side

Enabling a daisy-chain connection.



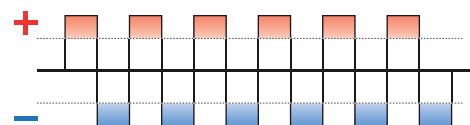
SPEED

*Super Fast
Static Electricity Removal*

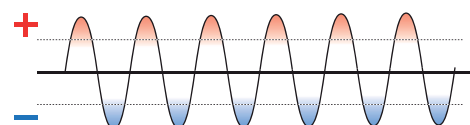
AC pulse method

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.

AC pulse



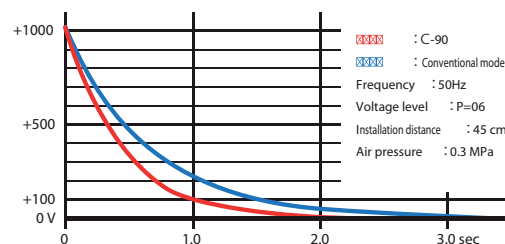
Typical alternating current



NEW

Super fast static electricity removal

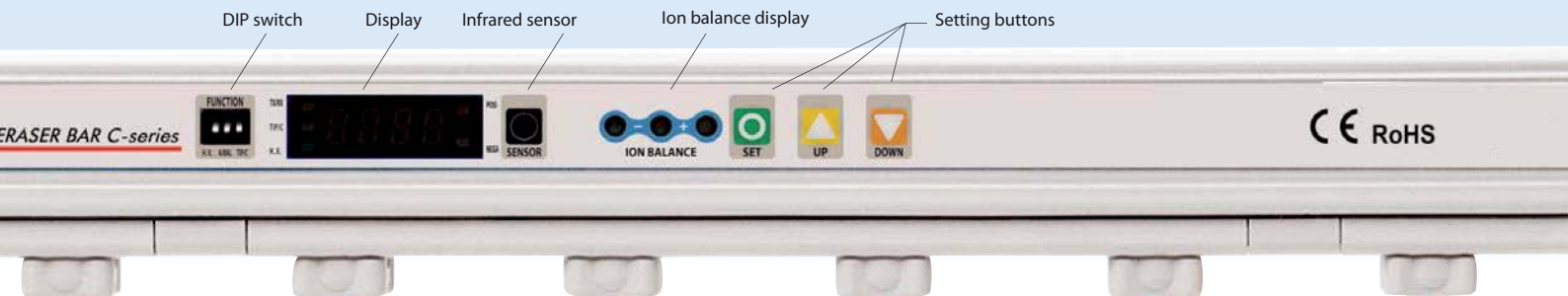
The newly developed needle electrode socket incorporates an air purging structure which has air emission ports around the needle electrode.



This structure not only prevents contamination of the electrode needle, but also feeds ions with a fast air flow to neutralize.



Compact bar type ionizers for high-speed neutralization with a clean design

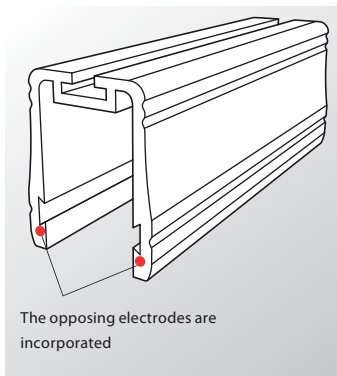


CLEAN *Clean Design*

NEW

Preventing body contamination

The opposite electrodes are incorporated in the body. This design enables to prevent particles from adhering to the outside of the body due to the induced voltage and to improve the ion generation efficiency by minimizing applied voltage losses.



One-touch needle replacement.

A socket type needle can be easily replaced.



MAINTENANCE

NEW

Needle cleaning timer

The timer notifies when to clean needle electrodes. The cleaning timing can be set in one-day units from 1 to 60 days. When the time elapses, the needle cleaning lamp turns ON and "AL-2" appears on the display.



High Voltage Alarm

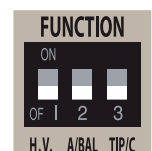
If a problem occurs at the high voltage output, the high voltage error lamp lights and "AL-1" appears on the display.



NEW

DIP switch

Select with DIP switch, whether to stop or continue operation when a high voltage error occurs, the ON or OFF state of the auto balance mode, and the ON / OFF state of the needle cleaning timer.



NEW

Interface Terminal

The run / stop state, high voltage error alarm signal and needle cleaning alarm signal can be output with the photo relay output. Remote operation can also be turned ON or OFF with the 24 VDC input.

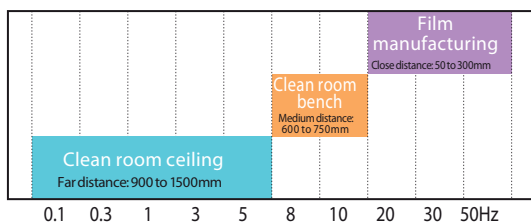


SETTING

Various Settings

Frequency

The frequency can be set in ten steps (0.1 to 50 Hz).



Voltage Level

The applied voltage can be changed individually for the positive and negative side. The amount of ions can be changed by different output steps. (Ten steps: 8.0 to 12.5 kVp-p)

Voltage level	1	2	3	4	5	6	7	8	9	10
Positive voltage (kV)	4	4.25	4.5	4.75	5	5.25	5.5	5.75	6	6.25
Negative voltage (kV)	4	4.25	4.5	4.75	5	5.25	5.5	5.75	6	6.25
kVp-p	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5

Pulse Ratio

The ion balance can be adjusted by changing the pulse ratio.

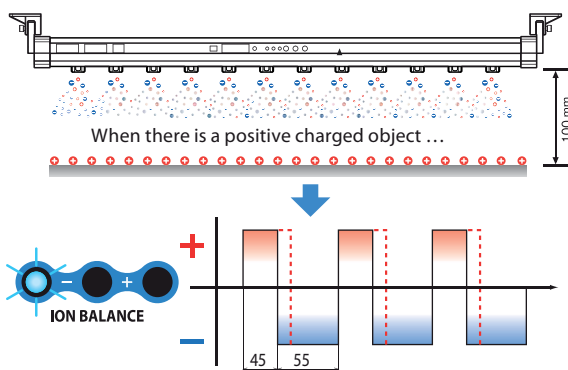
Address

When using multiple units, an address allocation (1 to 16) can be set to identify each device.

Auto Balance Mode

NEW

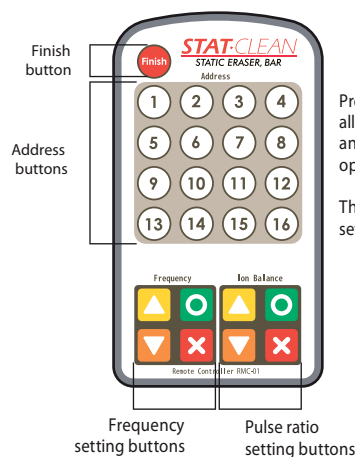
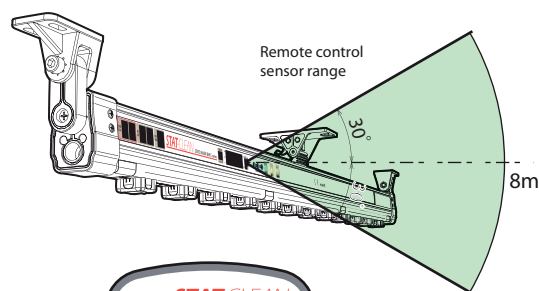
This C series is equipped with a mode to optimally adjust the ion balance automatically according to the polarity of the charged matter. (Target distance: 50 to 100 mm)



More amount of negative ions is generated and discharged

Card-type Remote Controller

This card-type remote controller is thin enough to fit in your pocket. The C series can be controlled from a distant location.



Press twice a number allocated to the bar, and it temporarily suspends operation.

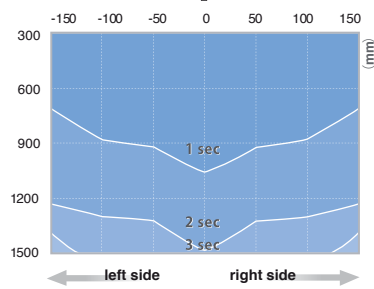
The frequency and pulse ratio settings can then be changed.

Static erasing performance

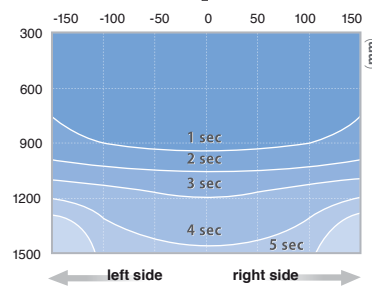
Measurement conditions

· Product : C-150 · Voltage : 10.5kV (P-06 N-06) · Air pressure : 0.3MPa · Temperature : 24°C ±1°C · Humidity : 40%±2%RH · Decay time : ±1000V-> ±100V · CPM : 20pF±2pF (150x150mm)

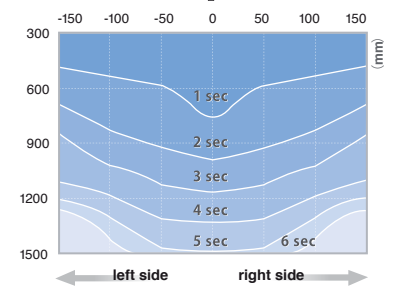
● Frequency :0.1Hz



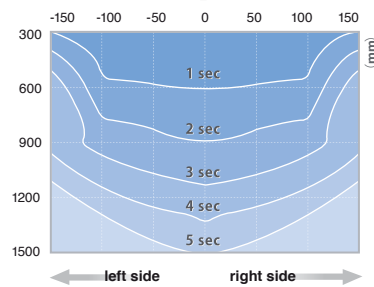
● Frequency :0.3Hz



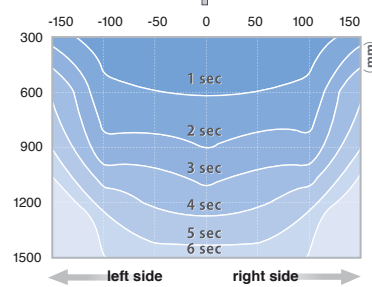
● Frequency :1Hz



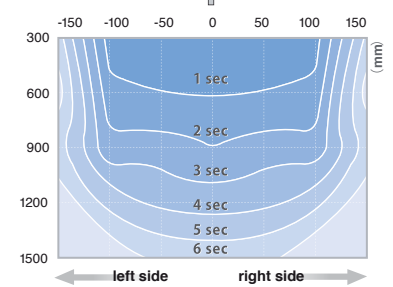
● Frequency :3Hz



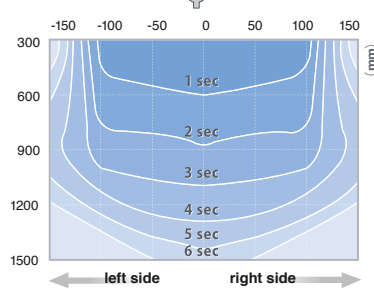
● Frequency :5Hz



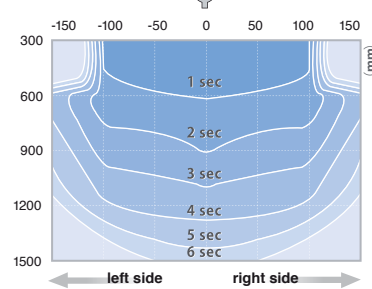
● Frequency :8Hz



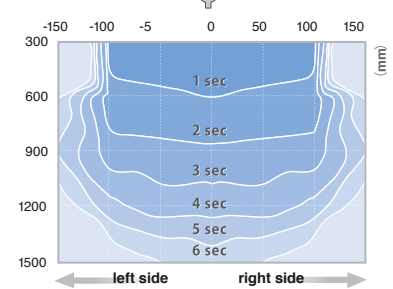
● Frequency :10Hz



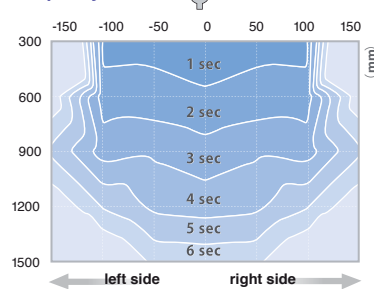
● Frequency :20Hz



● Frequency :30Hz



● Frequency :50Hz



Specifications

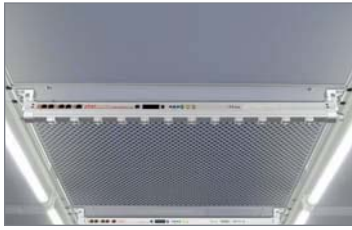
Ionizing method	Pulse AC Corona discharge
Input power supply	24 VDC ± 5 % (connector RJ45) / 600mA Max.
Power consumption	max 14.4W
Air supply hose diameter	PT 1 / 8, Hose ø8 mm OD×ø6 mm ID
Air supply	Clean dry air or nitrogen (N2) (0.3 MPa or less)

Setting functions

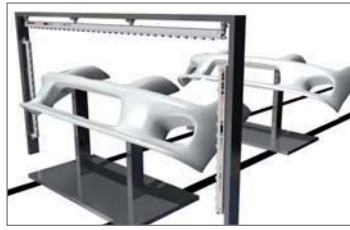
Applied voltage	: AC8~12.5 kV(pp) Each polarity can be set in ten steps from 4.00 to 6.25 kV
Frequency	: Select from ten steps 0.1, 0.3, 1, 3, 5, 8, 10, 20, 30, 50 Hz
Pulse ratio	: Positive ion 40 to 70 %, negative ion 60 to 30 %
Auto balance	: Effective when Auto Balance mode is enabled (Distance 50 to 100 mm)
Needle cleaning timer	: Effective when needle cleaning timer is enabled (One day unit from 1 to 60 days)

Ion balance	± 30 V (Distance 1000 mm)
Alarm output	High voltage error, Needle cleaning timer (Only when set) [Connector RJ45]
Operating temperature and humidity	0 to 50 ° C, 35 to 85 %RH (With no dew condensation or freezing)
Operating distance	Approx. 50 to 2000 mm
Ozone production	0.05 ppm or less
Decay time	See illustration above (These are measured values and not guaranteed values)
Material	Body: Flame-retardant ABS resin, Needle electrode: Tungsten
Accessories	Instruction Manual, Remote controllerx1, Power cable (5 m)×1, End bracketsx2, Middle bracket (See back side)
Airflow (L / min)	C-40 C-70 C-90 C-100 C-120 C-150 C-170 C-200 C-220 C-250 C-270 C-300
0.1MPa	35 40 45 55 65 80 90 100 105 110
0.2MPa	70 75 80 90 100 110 125 135 140 150
0.3MPa	48 64 90 95 100 120 135 150 165 180 190 200

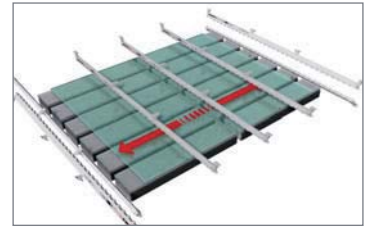
Applications



Clean room ceiling



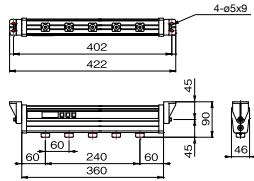
Automobile component painting line



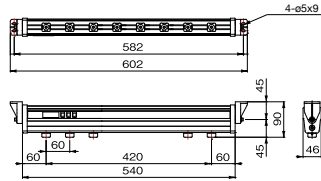
Glass substrate transfer

External dimensions

C-40

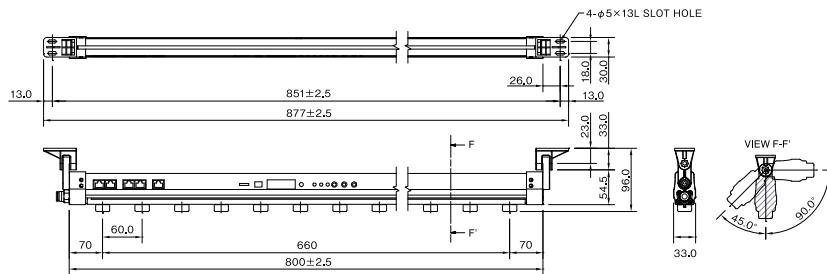


C-60

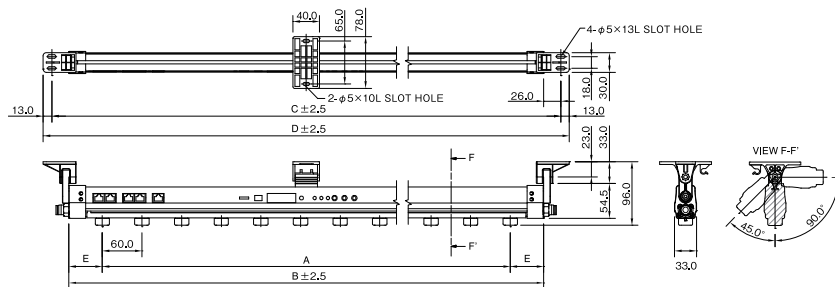


(mm)

C-90



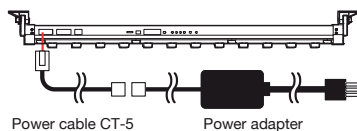
C-100, 120, 150, 170, 200, 220, 250, 270, 300



Dimension / Electrode needles / Middle Bracket

Model.No	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Electrode needles	Middle Bracket	Weight (kg)
C-40	240	360	402	422	60	5 pcs	—	0.78
C-60	420	540	582	602	60	8 pcs	—	1.08
C-90	660	800	851	877	70	12 pcs	—	0.9
C-100	900	1001	1052	1078	50.5	16 pcs	1 pc	1.0
C-120	1140	1241	1292	1318	50.5	20 pcs	1 pc	1.2
C-150	1380	1481	1532	1558	50.5	24 pcs	1 pc	1.4
C-170	1620	1721	1772	1798	50.5	28 pcs	2 pcs	1.6
C-200	1860	1961	2012	2038	50.5	32 pcs	2 pcs	1.8
C-220	2100	2201	2252	2278	50.5	36 pcs	2 pcs	2.3
C-250	2340	2441	2492	2518	50.5	40 pcs	3 pcs	2.6
C-270	2580	2681	2732	2758	50.5	44 pcs	3 pcs	2.8
C-300	2820	2921	2972	2998	50.5	48 pcs	3 pcs	3.1

Example of power connection



Options

AD24-IT-EX	:Power adapter (I/P:AC100V-240V O/P:DC24V 0.75A)
AD24-ITCF-EX	:Power adapter (I/P:AC100V-240V O/P:DC24V 1.5A)
AD24-IT19-EX	:Power adapter (I/P:AC100V-240V O/P:DC24V 1.9A)
CT-5	:Power cable (5m)

Dimensions and descriptions can be changed in a preoccupation with an improvement of the performances, these dimensions can be modified without notice of our share



- For safety purposes, read the instruction manual carefully before using the unit.
- Do not use this product in an explosion-proof area.
- A high voltage is applied on this product. Make sure that water, oil, solvents, etc., do not come in contact.
- Avoid dew condensation as it can result in electric shock or product damage.
- Keep away metal objects such as tools or needles, or body parts such as fingers, hands or face from the needle electrode because a high voltage is applied on the needle electrode.

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•For improvements, the product specifications, size, price and other information may be subject to change without prior notice.

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