

Clean & Compact

Newly designed high-precision and high-speed ionizer
applying a new technology



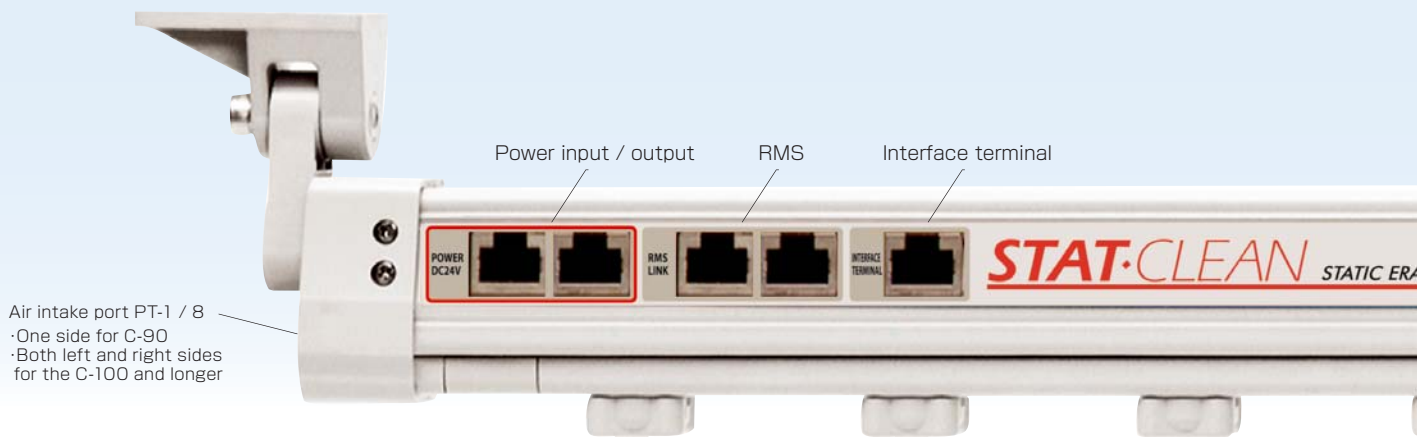
NEW

Long types
now available

STAT·CLEAN

C-series Ion Bar

AC Pulse Ionizing Clean Bar

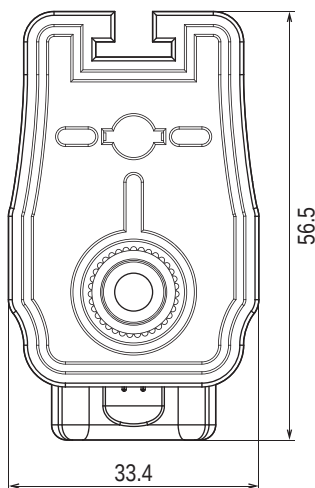


COMPACT *Super Compact Design*

NEW

Slim & lightweight body

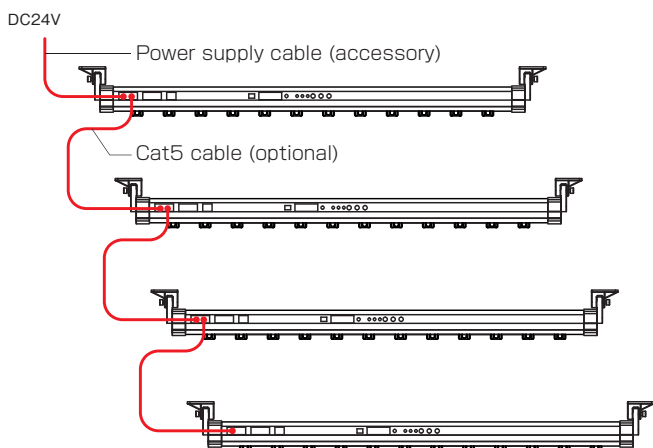
Super-compact design incorporating high-voltage power supply, control circuit, and air circuit.
 (Actual size as shown on the right)



NEW

Terminals grouped on one side

Enabling a daisy-chain connection.

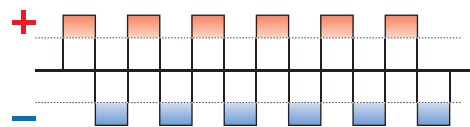


SPEED *Super Fast Static Electricity Removal*

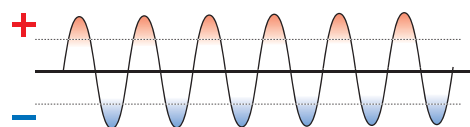
AC pulse method

This is a method of generating alternately positive ions and negative ions from each electrode.
 Since ions are generated maximum during each positive and negative electrode cycle, the ion volume is high and static electricity can be removed quickly.

AC pulse



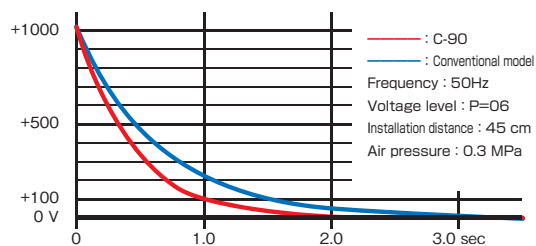
Typical alternating current



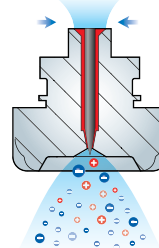
NEW

Super fast static electricity removal

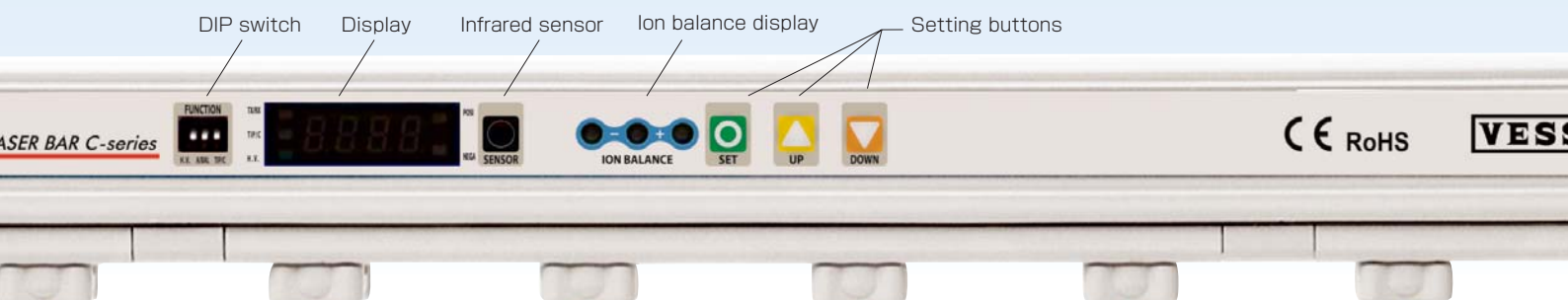
The newly developed needle electrode socket incorporates an air purging structure which has air emission ports around the needle electrode.



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

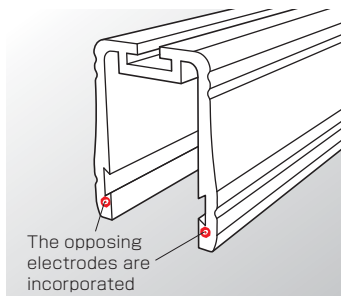


CLEAN *Clean Design*

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.



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.



MAINTENANCE

NEW

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.

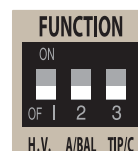


NEW

DIP switch

Select following with DIP switch:

- whether to stop or continue operation, when a high voltage error occurs;
- ON or OFF state of the auto-balance mode;
- ON/OFF state of the needle cleaning timer.



NEW

Interface Terminal

PhotoMOS relay can output Run/Stop state Signal, High Voltage Error Alarm Signal, and Needle Cleaning Alarm Signal. The 24VDC input can turn Remote Operation ON or OFF.

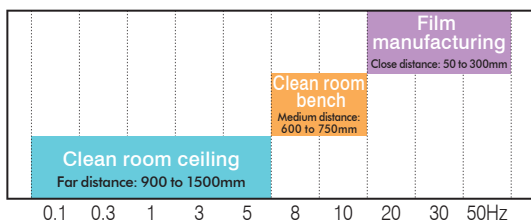
	No.	機能	出力	機能
	1	Run/Stop state	PhotoMOS relay output (non-polar)	Close: Operation Open: Stop
	2	--		--
	3	High voltage error		Close: Alarm Open: Normal
	4	Needle cleaning timer		Close: Alarm Open: Normal
	5	Common	No connection	--
	6	--		--
	7	Remote operation (positive ions)		DC24V ON: Continue OFF: Stop
	8	Remote operation (negative ions)		



SETTING *Various Settings*

Frequency

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



Pulse Ratio

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

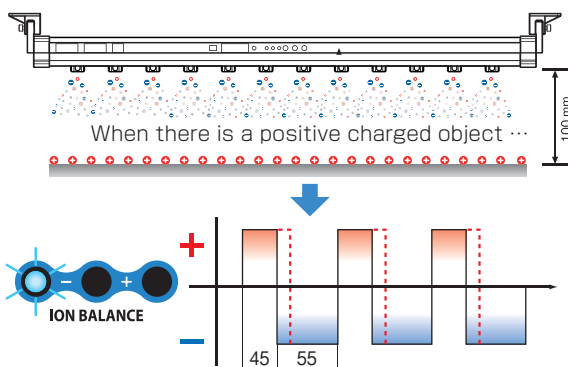
Address

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 object. (Target distance: 50 to 100 mm)



More amount of negative ions is generated and discharged

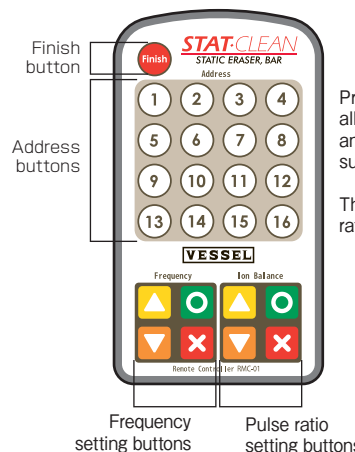
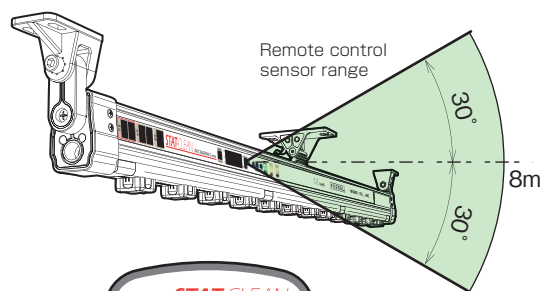
Voltage Level

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
kV p-p	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5

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 button for a number allocated to the bar, and operation is temporarily suspended.

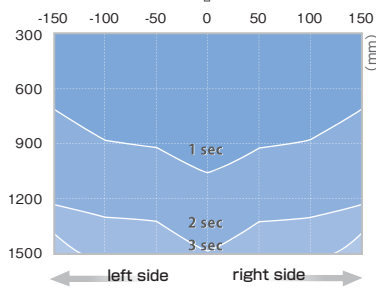
Then, the frequency and pulse ratio can be changed.

Static Erasing Performance (actual measured values with a sample)

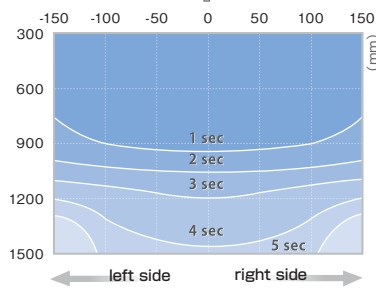
Measurement conditions

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)

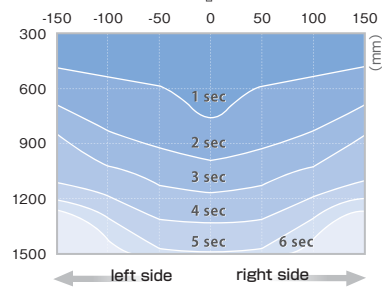
●Frequency: 0.1Hz



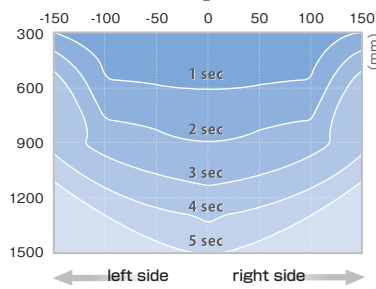
●Frequency: 0.3Hz



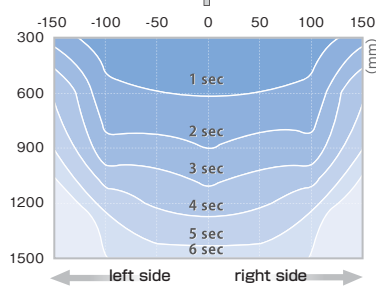
●Frequency: 1Hz



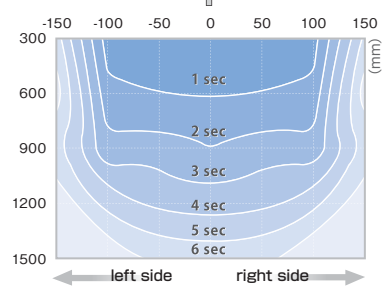
●Frequency: 3Hz



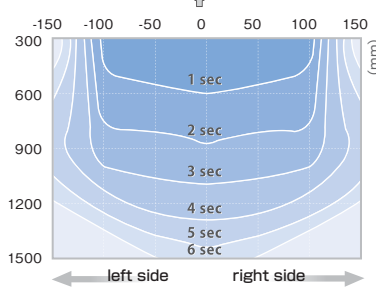
●Frequency: 5Hz



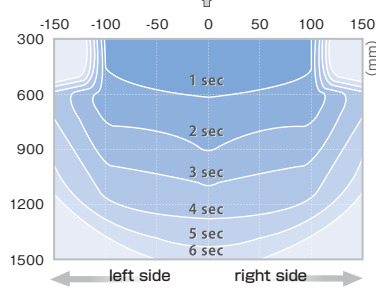
●Frequency: 8Hz



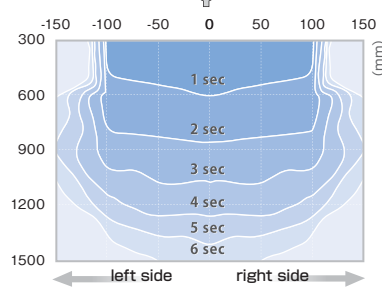
●Frequency: 10Hz



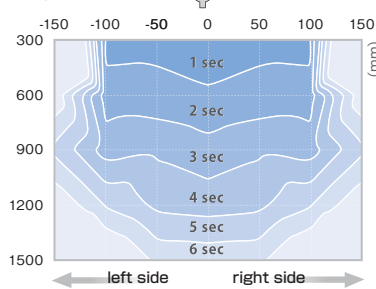
●Frequency: 20Hz



●Frequency: 30Hz



●Frequency: 50Hz



Specifications

Ionizing method	Pulse AC Corona discharge
Input power supply	24 VDC ± 5 % (connector RJ45)
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 (N ₂) (0.3 MPa or less)
Setting functions	
Applied voltage	:Max. 12.5 kVpp 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)

Replacement parts Electrode Needle Unit

Kindly confirm the serial number of the model you use, before ordering the electrode needle unit, because the applicable part is different according to the model.



C-00H ※
EDP No:80610
※For the models Serial No.130373 and before.



C-00HR ※
EDP No:806107
※For the models Serial No. from 130374 to 131254.



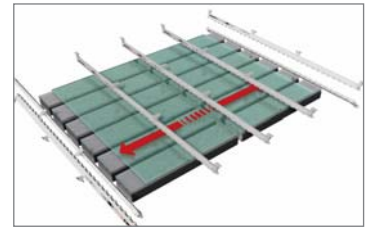
C-00HR6 ※
EDP No:806130
※For the models Serial No. 131255 and after.

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 controller×1, Power cable (5 m)×1, End brackets×2, Middle bracket (See back side)

Airflow (L/min)	NEW									
	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	90	95	100	120	135	150	165	180	190	200



Automobile component painting line



Glass substrate transfer

[TOP](#)

[TOP](#)



FRONT



Operation: 3 bars

AD24-IT-EX :Power adapter(I/P:AC100V-240V O/P:DC24V 0.75A) EDP No:806050

AD24-ITCF-EX:Power adapter(I/P:AC100V-240V O/P:DC24V 1.5A) EDP No:806074
AD24-IT19-EX:Power adapter(I/P:AC100V-240V O/P:DC24V 1.9A) EDP No:806080

CT-5 :Power cable(5m)



- 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.

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

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