

VESSEL®

Electronic components/
assemblies, Resin molds,
and Packaging
containers

Short type for small workpieces



Optimal size for the installation
on conveyors and on automatic
instruments



NEW

STAT·CLEAN

C-40 C-60

AC Pulse Ionizing Clean Bar

C-40 EDP No.: 621857

C-60 EDP No.: 621858

Short bar type of ionizers for reliable neutralization

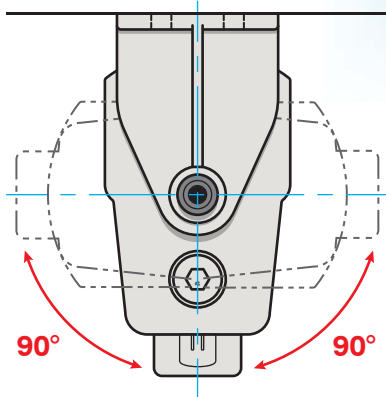


Air intake port PT-1 / 8
(Exists on both sides)

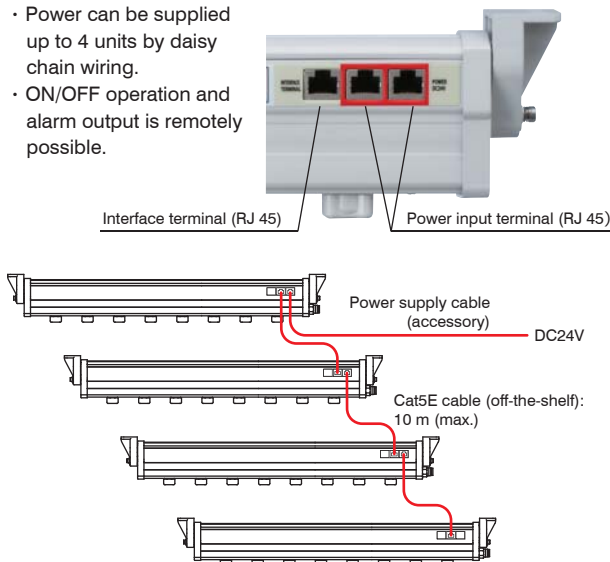
CONVENIENCE

More convenient installation

- NEW** With a bracket for installation
- Right-and-left angle can be set up to 90 degrees.



- NEW** Consolidated terminals on the back side
- Power can be supplied up to 4 units by daisy chain wiring.
- ON/OFF operation and alarm output is remotely possible.

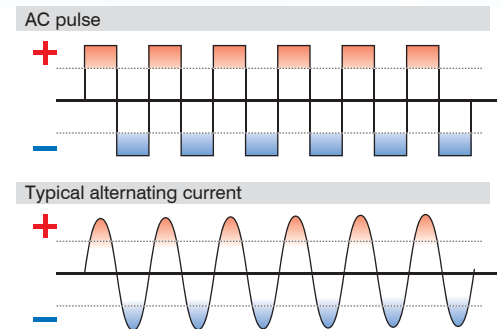


SPEED

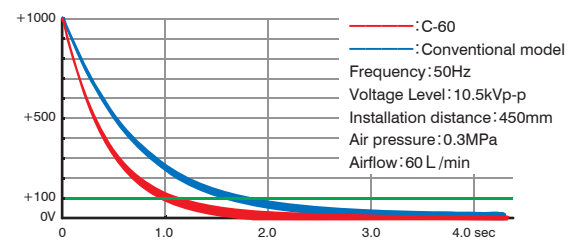
Super Fast Static Electricity Removal

AC pulse method

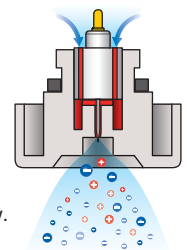
- AC system that alternatively generates positive ions and negative ions from each electrode in the square wave.
- Since ions are generated at the maximum width of each electrode frequency, the ion volume is high and static electricity can be quickly removed.



- NEW** High-speed neutralizing needle
- Newly-designed needle reduces the consumption of air which rapidly sends ions to workpieces by an air purge.



- It can not only prevent the contamination of the tip of the discharge needle, but also neutralize charged substances by sending generated ions with fast air flow.



Optimal method for conveyors and instruments



MAINTENANCE

Easy maintenance

One-touch needle replacement

- A socket type needle can be easily replaced.



High Voltage Alarm

- If any problem occurs at the high voltage output, the high voltage error lamp lights and AL-1 appears on the display. Signal can also be output.

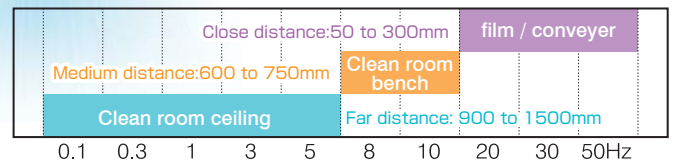


SETTING

Various setting menus

Frequency

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



Voltage Level

Changing the output depending on the charged workpiece can quickly neutralize it. (Ten steps)

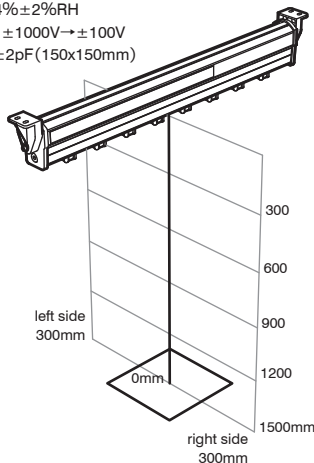
Voltage level(H)	01	02	03	04	05	06	07	08	09	10
kV p-p	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5

Pulse Ratio

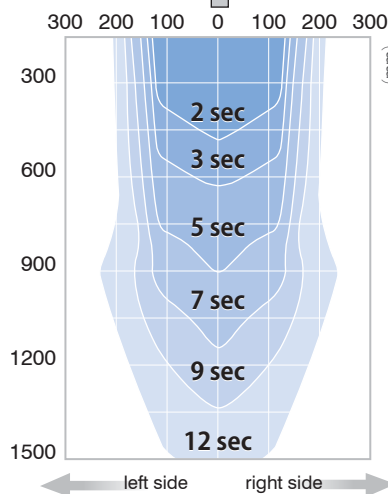
- Changing the pulse ratio, which is from 40 to 70% on the positive side, can adjust the ion balance.

Static erasing performance

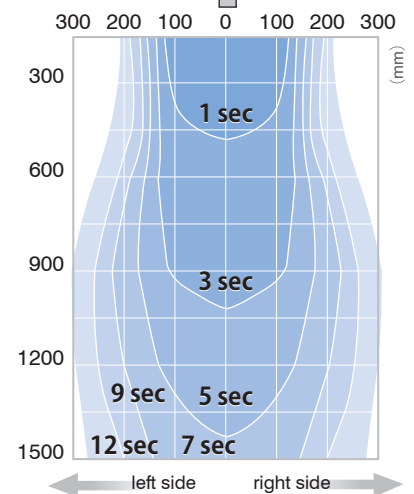
Frequency: 30Hz
 Voltage Level: 10.5kV
 Air pressure: 0.1MPa/0.3MPa
 Temperature: 24°C ± 1°C
 Humidity: 44% ± 2%RH
 Decay time: ± 1000V → ± 100V
 CPM: 20pF ± 2pF (150x150mm)



0.1MPa



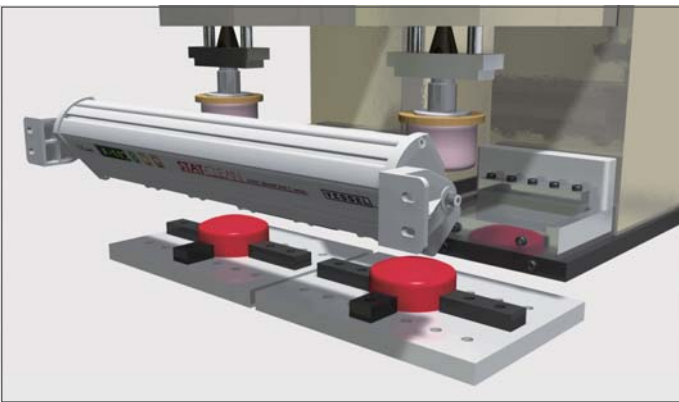
0.3MPa



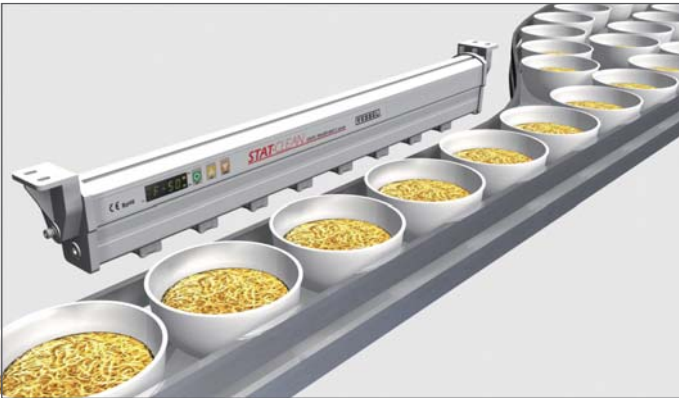
Applications



Headlight after form



Pad printing (no air supplied)



Cup containers before placing ingredients

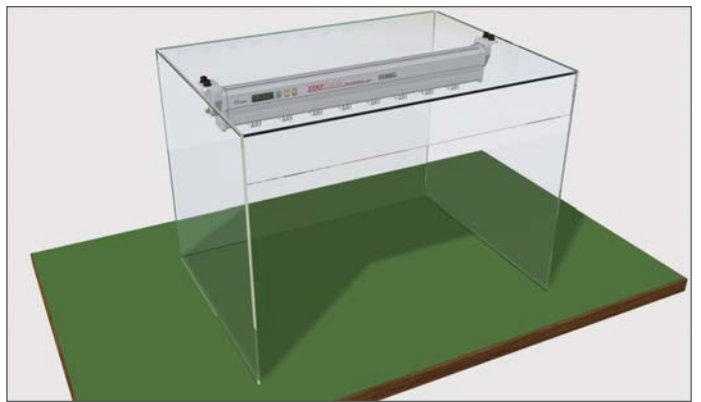


Three-side pillow packaging (no air supplied)

Applications



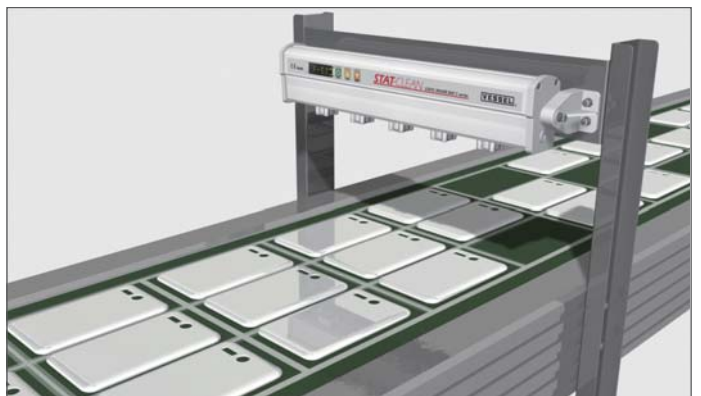
Cell work table (no air supplied)



Simple clean bench

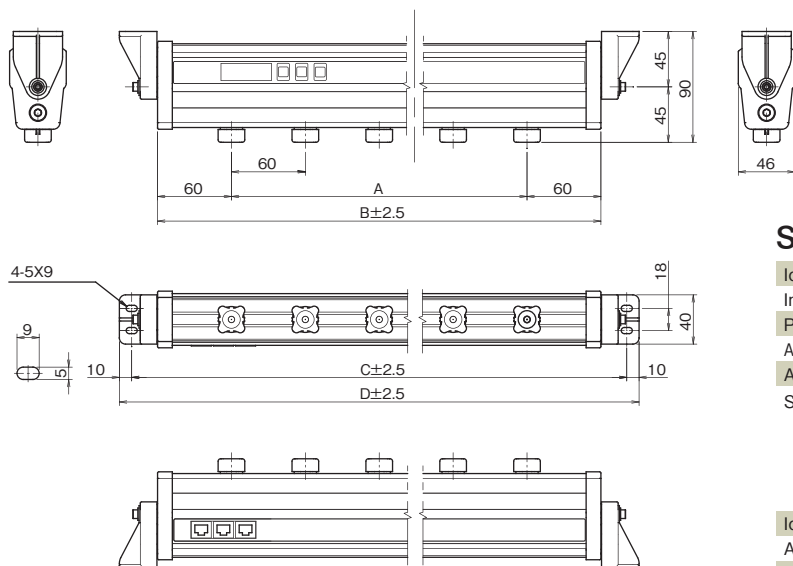


Mounter unit (no air supplied)



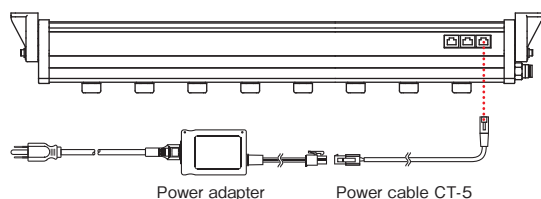
Mobile devices before coating

External dimensions



Model	Electrode needles	A	B	C	D	Weight	Air consumption (0.3MPa)
C-40	5	240mm	360mm	402mm	422mm	0.78kg	48L/min
C-60	8	420mm	540mm	582mm	602mm	1.08kg	64L/min

Example of power connection



Options

Power adapter	Power adapter (I/P:AC100V-240V O/P:DC24V 0.75A)	AD24-IT-EX	EDP No: 806050
Power adapter (I/P:AC100V-240V O/P:DC24V 1.5A)	AD24-ITCF-EX	EDP No: 806074	
Power adapter (I/P:AC100V-240V O/P:DC24V 1.9A)	AD24-IT19-EX	EDP No: 806080	
Connection with adapter	Power cable (5m)	CT-5	EDP No: 621709

Specifications

Ionizing method	Pulse AC Corona discharge
Input power supply	24 VDC \pm 5% (connector RJ45)
Power consumption	max 7.8W
Air supply hose diameter	PT 1 / 8, Hose ϕ 8 mm OD \times ϕ 6 mm ID
Air supply	Clean dry air or nitrogen (N ₂) (0.3 MPa or less)
Setting functions	Applied voltage: can be set in ten steps from 8.0 to 12.5 kVp-p. Frequency: 0.1, 0.3, 1, 3, 5, 8, 10, 20, 30, 50Hz Pulse ratio: Positive ion 40 to 70%; and can be adjusted by 0.5%.
Ion balance	\pm 30 V (Distance 1000 mm)
Alarm output	High voltage error
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 previous page (measured value, not guaranteed value).
Material	Body: Flame-retardant ABS resin, Needle electrode: Tungsten
Accessories	Instruction Manual, Power supply cable (10 m for input 24 VDC \pm 5%) x 1, Signal cable (10 m) x 1, End brackets x 2 (already on the body)

replacement parts

Electrode Needle socket	C-00HR
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Line-up of C series (long models)

Clean & Compact

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

C-90	EDP No:621851	NEW	C-220	EDP No: 621859
C-100	EDP No:621852	NEW	C-250	EDP No: 621860
C-120	EDP No:621853	NEW	C-270	EDP No: 621861
C-150	EDP No:621854	NEW	C-300	EDP No: 621862
C-170	EDP No:621855			
C-200	EDP No:621856			



Warning

- 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 from the needle electrodes metal objects such as tools or needles, or body parts such as fingers, hands, or face, because a high voltage is applied on the needle electrodes.

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