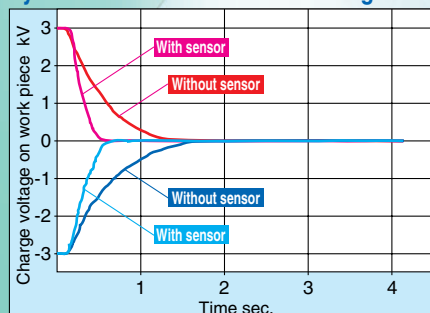


Ionizer / with surface potential sensor



Positive and negative electric charge on a work piece is measured and discharged by a continuous flow of cancelling ions.



Discharge time 0.3 seconds

Conditions / Static buildup decreased from 3000 V to 300 V
 Discharged object: Charged plate monitor (150 mm x 150 mm, Capacitance 20 pF)
 Installation distance: Tungsten electrode with air purge 200 mm from work piece

<Conditions>
 Height when installed: 250 mm
 Air purge: 20 l/min (ANR)
 Electrostatic charged plate: 150 mm x 150 mm, 20 pF
 Operating frequency without sensor: 33 Hz

Power consumption: 4 W while eliminating static electricity, 2.5 W while standing by
 (When a surface potential sensor is used.)

- Automatically stops generating ions when the static electricity has been eliminated.
- Automatically controls the generation of ions and turns the compressed air on/off depending on the existence of a charged material. (When a retrofitted solenoid valve is controlled by using the output signal of an ionizer.)

Continuously emits ions of reversed polarity to charged objects as a result of feedback from the external sensor.
 (Mode changes to pulse DC mode when a sensor is not used.)

Mode	Ion emission image	Action	How to use
Sensing DC mode (with sensor)		Continuously emits ions of reversed polarity to charged objects as a result of feedback from the external sensor.	Can eliminate static electricity depending on the charged status of the material. Suited for a rapid elimination of static electricity.
Pulse DC mode (without sensor)		Alternatively emits positive and negative ions.	Suited for a continuous material such as a sheet of film and/or for eliminating static electricity in a specific space.
A charged object image			

Controller, Built-in high voltage power supply



Coming soon!

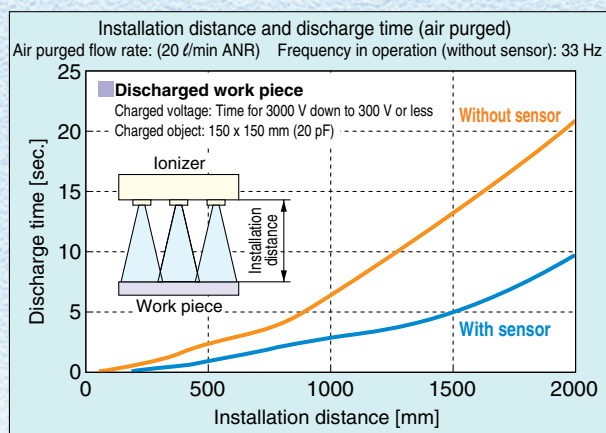
One-touch fitting with check valve

(both ends: standard equipment)



The effects by the installation distance is reduced.

Feedback control by the external sensor reduces the time needed for eliminating electricity which is caused by the body installation distance.



Surface potential sensor

Measures the polarity of a discharged object, as well as the amount of charged electricity.



Electric pole needles are made in a cartridge.



Can replace it with a single touch.

Specifications

Model	IZS30-300	IZS30-780	IZS30-1260	IZS30-1500	IZS30-1900
Type	Bar type				
Bar length	300 mm	780 mm	1260 mm	1500 mm	1900 mm
Ion generation method	Corona discharge type				
Voltage applied method	Pulse DC method				
Output for emitting electricity	±6000 V				
Ion balance Note 1)	±30 V or less				
Air purge	Operating fluid				
	Air (clean and dry)				
	Air supply flow rate Note 2)				
	20 l/min (ANR)	50 l/min (ANR)	85 l/min (ANR)	110 l/min (ANR)	140 l/min (ANR)
Power supply voltage	Operating pressure				
	0.7 MPa or less				
Current consumption	Connecting tube O.D.				
	ø4				
	21.6 V DC to 26.4 V DC				
Input signal	Sensor mode while eliminating static electricity				
	150 mA or less				
	Sensor mode while standing by				
Output signal	100 mA or less				
	Pulse DC mode				
	100 mA or less				
Input signal	Suspension of eliminating static electricity				
	NPN transistor (open collector), or contact signal with no voltage				
	High voltage error				
Output signal	FET (open drain), 28 V DC, 100 mA or less				
	Sensor error				
	Completion of eliminating electricity				
Operating ambient temperature	0 to 50°C				
Operating ambient humidity	35 to 80% Rh (with no condensation)				
Material	Cover of ionizer: ABS, Electric poles: Tungsten, Sensor body: Aluminum alloy				
Vibration resistance	Durability 50 Hz Amplitude 1 mm XYZ each 2 hours				
Shock resistance	10 G				
Weight	330 g	710 g	1100 g	1410 g	1930 g

Note 1) In the case where air purge is performed between a charged object and an ionizer at a distance of 300 mm. Note 2) The minimum flow rate that can eliminate electricity between a charged object and an ionizer at a distance of 2000 mm.

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Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

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