



SHISHIDO ELECTROSTATIC, LTD.

PIEZONIZER

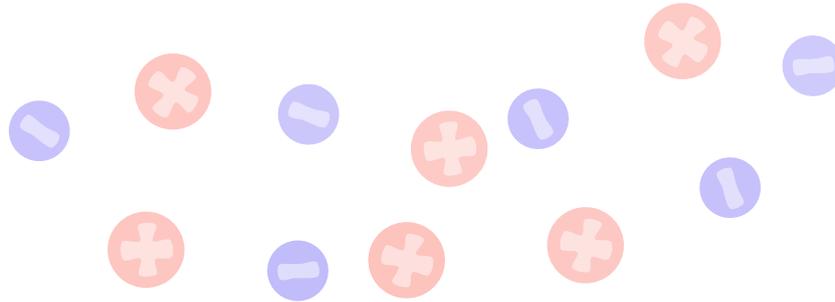
Zapp III

Air Nozzle Ionizer

ZappIII is next generation model of ZappII. The size, fixing dimensions, the optional nozzles can be compatible.



ZappII



※ The picture is with OZ-S nozzle as optional.

Variable models

For flexible applications, you can chose from below three models.

- Standard air flow Model ZappIII (same as ZappII)
- High air flow Model ZappIII-H(same as Zapp-H)
- Controllable air flow Model ZappIII-C (with Air flow controller)

Variable Nozzless

- For valiable applications, we prepare many optional nozzles



Air Flow Controller
(Only ZappIII-C)

SPECIFICATIONS

Model No.	ZappIII / (-H) / (-C)
Discharge Method	High frequency AC corona discharge method
Power-supply	24 V DC \pm 10%
voltageCapacity	2.4VA
High voltage output	2,500Vapprox. (3pF,100M Ω)
Applicable fluid	Air (dried clean air)
Air pressure range	0.05 to 0.60 MPa*1
Dimensions: (mm)	86.5L x 18W x 50H (Main Unit only)
Weight	78 g approx. (Main Unit only)
Environment	Indoor, Altitude up to 2000m
Ambient temperature	0 to 40°C
Ambient humidity	65% or less (No condensation allowed)
High voltage abnormality (ALARM) Output	NPN and photo relay output Maximum allowed current: 100 mA Applied voltage: 30V DC or less
Cleaning check (C.C) output	NPN and photo relay output Maximum allowed current: 100 mA Applied voltage: 30 V DC or less
Discharge stop signal (HV-OFF) input	Discharge OFF: Short-circuited to 0V Discharge ON: Open (Residual voltage: 0.5V or less)
Quantity of produced ozone	0.05 ppm or less (Measured Distance 300mm)
Material	Enclosure: PBT, Cover: Stainless, Discharge needle: Tungsten
Accessories	Instruction manual, Power supply and signal cable

Type	Standard Model	High air flow Model	Controlable Air flow Model
Model	ZappIII	ZappIII-H	ZappIII-C
Ion balance *2	\pm 10 V or less	\pm 15 V or less	\pm 15 V or less
Air flow Controll function	No function	No Function	With function
Supplied air flow (0.05 to 0.6MPa) *1	40 ~ 220 ℓ /min	50 ~ 400 ℓ /min	40 ~ 400 ℓ /min

*1. The nozzle uses OZ-S. The applicable pressure range depends on the nozzle to be used. Check that the table below.

*2. Measured value when using the nozzle OZ-S. (before shipment)

- Ranges of air pressure (gauge pressure) in case of combining ZappIII and the following nozzles are as follows.

●Air pressure range for each nozzle used with ZappIII.

OZ-S	0.05 ~ 0.60MPa	OZ-C100 ~ C500	0.05 ~ 0.50MPa
OZ-TT	0.05 ~ 0.50MPa	OZ-ST	0.05 ~ 0.30MPa
OZ-100B ~ 300B	0.05 ~ 0.60MPa	OZ-60SII	0.05 ~ 0.60MPa
OZ-100BLF ~ 200BLF	0.05 ~ 0.60MPa	OZ-F	0.05 ~ 0.60MPa
OZ-PSP120	0.05 ~ 0.50MPa	OZII-SC	0.05 ~ 0.60MPa
OZII-90S	0.05 ~ 0.60MPa		

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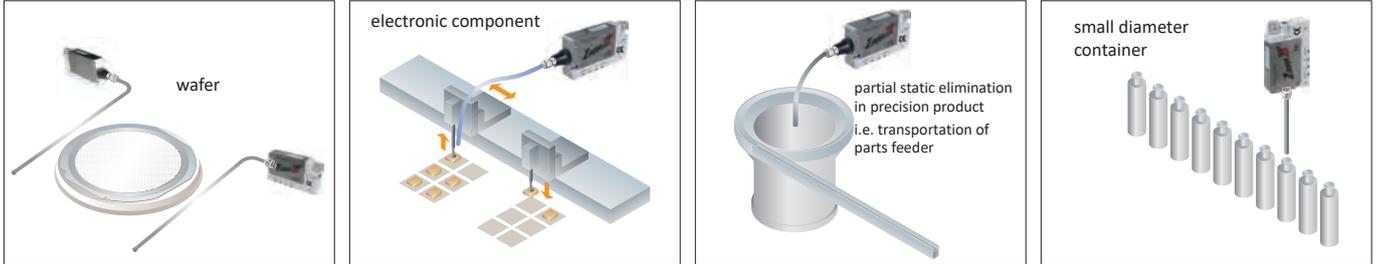
<http://www.shishido-esd.co.jp/english/index.html>

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- 5 Equipment of installation device
- 6 Operating robot etc during installation
- 7 Assembly line for small device i.e. handset
- 8 Partial static elimination for decives that is sensitive to ESD ie DVD Pickup



A wide range selections of nozzles for diversified needs

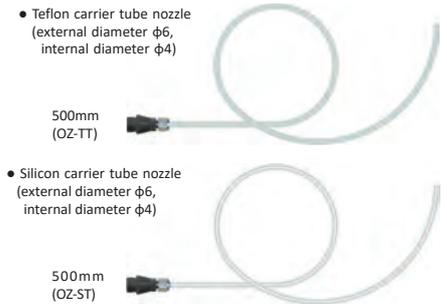
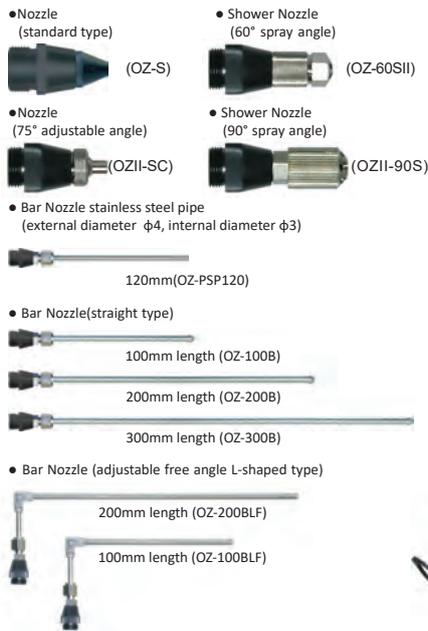
Optional Part

In addition to the nozzles listed in our nozzle catalog, nozzles may be custom-made to a customer's specifications for almost any application. Please contact our representative for additional information.

- Seamless carrier pipe nozzle (external diameter φ11, teflon tybe inside . Better flexibility than old DK pipe version



※ Nozzles below are not for Nitrogen use. Please make sure to use OZ-N nozzle in the Nitrogen environment.



- AC adaptor, Connection cable
- Power supply only (OZII-24V) EU/UK plug available
- Power supply with signal cable & grounding wire (OZII-24VA) EU/UK plug available



OZ-N Nozzle/option

For N2(Nitrogen gas)

Please make sure to use OZ-N nozzle in the Nitrogen(N2) environment.

- Seamless carrier pipe nozzle (external diameter φ11), teflon tybe inside. Better flexibility than old DK pipe version

