

Ionizing Bar No. SJ

RoHS

For highly charged or fast moving products



- * Compact and slim design
- * Detachable and replaceable discharge needles
- * Detachable high voltage cable
- * Wide variety of sizes
- * Brackets enable you to change the installation in angle
- * Fine ionizing adjustment control with the High Voltage Power Supply unit GP-1 (sold separately)





lewly Developed

High Voltage Power Supply Unit

EDP No. 623044

AC Adapter

No. AD24-GPE





Use this product with the GP-1 4kV.

Removal of static electricity and dust in the following applications: Bag-making/Film packing/Molding/Robotic conveyance and pick-up/Food container



Newly Developed High Performance Ionizing Compact and slim body for integration into edinstallations in a narrow space. Electrode need

■ A wide variety of sizes is available. Easy installation and location change with detachable connecting cable design.

Dimension's from 170mm to 1,770mm (body only measured), suitable for many applications. Light-weight system for easy installation.

Simple cable routing between the high voltage cable (Silicone Shielded) and the power unit.



Discharge needles can be cleaned and replaced while the ionizing bar remains installed.

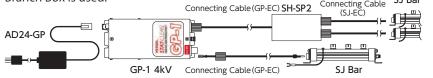
The SJ series offer now detachable electrode needle. Replacement and cleaning of the needles can be done by dismantling the old needle electrodes only.

* Make sure that the power is OFF when you clean or replace the needles.



Optional High Voltage Power Unit and Branch Box enable the use of multiple ionizing bars.

One piece of High Voltage Power Supply Unit (No. GP-1) can be connected to max. 2 ionizing bars. In addition, 3 ionizing bars in total can be connected when Branch Box is used.



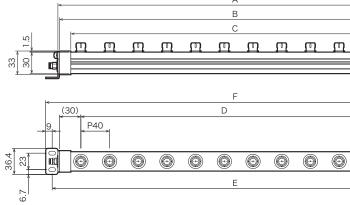
*The maximum cable length is 10m. If you require more length please contact us.

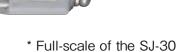


■Line-up

Model	EDP No.
SJ-20	621591
SJ-30	621592
SJ-50	621593
SJ-80	621594
SJ-120	621595
SJ-150	621596
SJ-180	621597







Bar quipment or dles are replaceable.

Applications



Before painting process of large molded products



Packing process of food containers



Pad printing



Dust removal of optical products



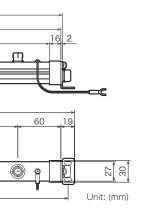
Storage of molded products



Film winding machine

		I	T. C.		
Prevention of dust adhesion		Prevention of stacking	Anti-Static	Prevention of short	
Painting and manufacturing of automotive and motorcycle	Plastic molding * plastic bottle	Film/Sheet/Paper * inflation molding machine	Printing * photogravure	circuit,electric shock/ discharge	
* bumper * wing mirror	* bottle cap * container for	* bag making machine	* sticker/label(small) printing	Film/Sheet/Paper * winding/unwinding	
* knob * headlights	pharmaceutical or cosmetic items * shrinkable label	Printing * offset printing * sheet-fed or rotary printing	Package machine * packaging of powder drug/capsule	* laminator * slitting machine	
Film/Sheet/Paper		* photogravure			
* vacuum forming * optical film	Medical equipment * dialysis tube	* sticker/label(small) printing	Prevention of	Prevention of dust	
* food packaging film	* medical tube	Package machine	ink bleeding	adhesion on molding dies	
Molded resin * injection molding	* syringe * drip infusion pack	* packaging of powder drug/capsule	Printing * screen printing	Molded resin * molding die	

s vary depending on the size. Refer to the table (see right) for more detail. The following illustration represents the SJ-50.



Model	Number of discharge needle	Weight(kg)	Α	В	С	D	E	F
SJ-20	3	0.2	174	170	138	80	190	208
SJ-30	7	0.3	334	330	298	240	350	368
SJ-50	11	0.7	494	490	458	400	510	528
SJ-80	19	0.9	814	810	778	720	830	848
SJ-120	27	1.1	1,134	1,130	1,098	1,040	1,150	1,168
SJ-150	35	2.0	1,454	1,450	1,418	1,360	1,470	1,488
SJ-180	43	2.2	1,774	1,770	1,738	1,680	1,790	1,808

Ionizing Bar No. SJ





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* See the inside pages for the available models and dimensions. **RoHS**



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- * Photo represents the SJ-30.
- * Detachable and replaceable discharge needles
- * Detachable high voltage cable
- * Wide variety of sizes
- * Brackets enable you to change the installation in angle
- * Fine ionizing adjustment control with the GP-1

Options

- * Connecting cable (2.5m) [GP-EC25]
- * Connecting cable (5m) [GP-EC5]
- * Connecting cable (2.5m) [SJ-EC25]
- * Connecting cable (5m) [SJ-EC5]
- * Needle electrode [SJ-00HR]

Specifications

Model	SJ- 20/30/50/80/120/150/180
lonizing method	AC high voltage applied type
Power Supply	High Voltage Power Supply No.GP-1 4kV(Option)
Applied Voltage	4kV AC
Ion Balance	Within ±50V (measured at 1,000mm, at air pressure 0.3MPa)
Decey Time	1 second or less (measured at 300mm, at air pressure 0.3MPa)
Operating range	50~2000mm
Ozone production	0.05ppm or less (measured at 50mm from the discharge needle)
Air Connection	PT1/8, with one-touch joint
Air hose	SJ-80 or smaller: Hose O.D.6mm x I.D.4mm
	SJ-120 or larger: Hose O.D.8mm x I.D.6mm
Operating Fluid	Clean dry air or Nitrogen gas (0.3MPa or less)
Air Consumption	135L/min (SJ-30、at air pressure 0.3MPa)
Operating Environment	5~50°C 35~85%RH (without freezing or dew condensation)
	Discharge needle: Tungsten (W,99.99%)
Material	Main body: Frame retardant ABS resin (V0)+SUS304
	Fixture: SUS304
Accessories	Ground wire, Instruction manual

High Voltage Power Supply Unit No. GP-1 4kV

Dimensions Power input connector Alarm output terminals Anomaly detection sensitivadjusting volume Power lamp (Blue LED) =(41) Ion balance adjusting volume 210 233.5 Mounting leg portion Grounding terminal 114.2 High voltage output connectors

Specifications

Model	GP-1 4kV
Operating Temp./Humidity	0~50°C/10~90%RH(without freezing or dew condensation)
Storage Temp./Humidity	-30~70°C/10~95%RH(without freezing or dew condensation)
Installation Place	Indoors
Rated Input Voltage	24V DC±10%
Variable Output Range Without Loud (rms)	AC output 4kV DC output -150 to +550V
Secondary Short Circuit Current	5 mA or lower
Output Monitor	1/1000V±5% of the output voltage is emit to the monitor terminals.
Low-voltage Detection	Anomaly detection function will operate when each output drops to about 85% or less of the set voltage due to high voltage short circuit or abnormal sparks.
Overcurrent Detection	Anomaly detection function will operate when the output current is about 4mA or more.
Anomaly Detection Sensitivity Adjustment	The anomaly detection response speed can be adjusted (using external adjustment knob)
Power Supply Input	Molex 5569-04A1-210
High Voltage Output Connector	Ceramic high voltage output terminal×2
Alarm Output Terminal	C contact relay output
Switches And Displays	On-off rocker switches. Blue LED power indicator lamp (goes off when anomaly is detected)
Material	Housing SPCC, painted white
Size	W102.8×D233.5×H114.2mm
Weight	Approx. 4.5kg

■ Dower Adapter Specifications

Power Adapter Specifications				
Model	AD24-GP DO AD24-GPE			
Rated input	100~240V AC (50/60Hz), 0.4A			
Rated output	24V DC, 0.75A			
Operating temp. Humidity	0~40°C 10~85%RH (without freezing or dew condensation)			
Coed length	DC output cord and AC input cord,approx. 1.8m each			



- * For your safety, read the instruction manual carefully before using this product.
- Never use this product in a hazardous area requiring explosion proof certification.
 A high voltage is applied on this product. Make sure that water, oil, solvents, etc., do not come in contact.
- * Avoid condensation as it can result in electric shock or product damage.
- * Keep away metal objects such as tools or wires, or body parts such as fingers, hands, or face from the discharge needle due to applied high voltage.

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

Manufactured by		
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