

Ionizing Bar No. SJ

RoHS

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



- * 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 GP-1

* Photo represents the SJ-30.

Options

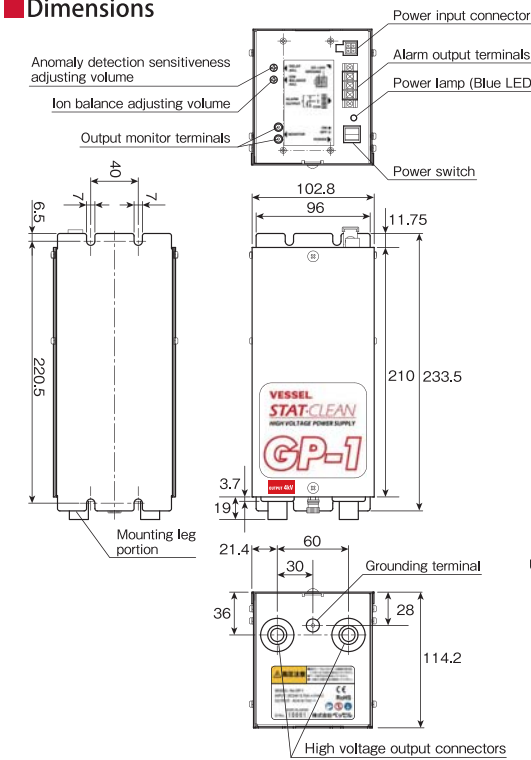
- * Connecting cable (2.5m) [GP-EC25]
- * Connecting cable (5m) [GP-EC5]
- * Connecting cable (2.5m) [SJ-EC25]
- * Connecting cable (5m) [SJ-EC5]
- * Needle electrode [SJ-00HR]

Specifications

Model	SJ- 20/30/50/80/120/150/180
Ionizing 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)
Material	Discharge needle: Tungsten (W,99.99%) 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



Unit: (mm)



(Option)

AD24-GP

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

Power Adapter Specifications

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



- WARNING**
- * 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.

Distributed by

Manufactured by
VESSEL Co., Inc.
17-25, Fukae-kita 2-chome, Higashinari-ku, Osaka 537-0001 JAPAN
Tel : +81(0)6 6976 7778 Fax : +81(0)6 6972 9441

E-mail : export@vessel.co.jp URL : http://www.vessel.co.jp/english/

Printed in Japan

18082721.01

New

RoHS

Ionizing Bar

No. SJ * The model name "SJ" will be shifted to "SL" when the current stock of SJ runs out. Unlike the SJ, the SL series will be with CE mark.

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)



Newly Developed

[Option]
High Voltage Power Supply Unit
No. **GP-1 4kV**
EDP No. 623044

[Option]
AC Adapter
No. **AD24-GPE**
EDP No. 806048

High Voltage Power Supply
(Standard Frequency)

STATBUSTER

OUTPUT 4kV

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



* Full-scale of the SJ-30

Newly Developed High Performance Ionizing Bar

Compact and slim body for integration into equipment or installations in a narrow space. Electrode needles are replaceable.

■ **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.



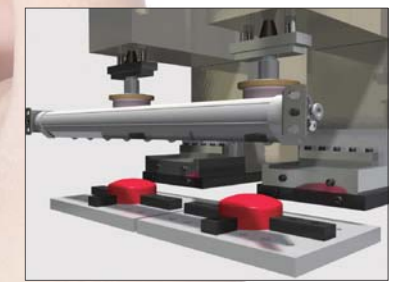
■ Applications



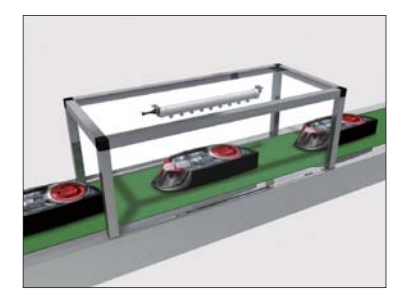
Before painting process of large molded products



Packing process of food containers



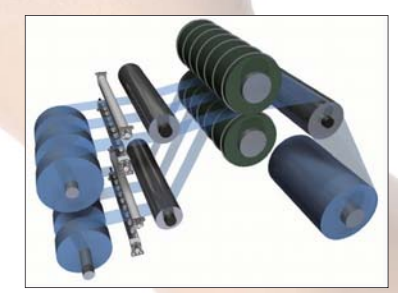
Pad printing



Dust removal of optical products



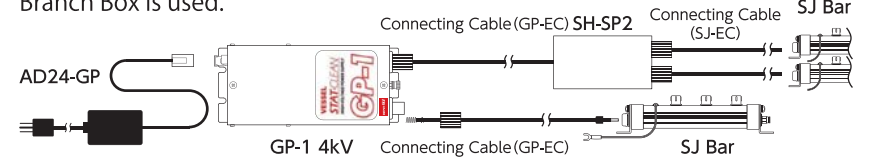
Storage of molded products



Film winding machine

■ **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.



● Branch Box No.SH-SP2
 EDP No. 621552

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

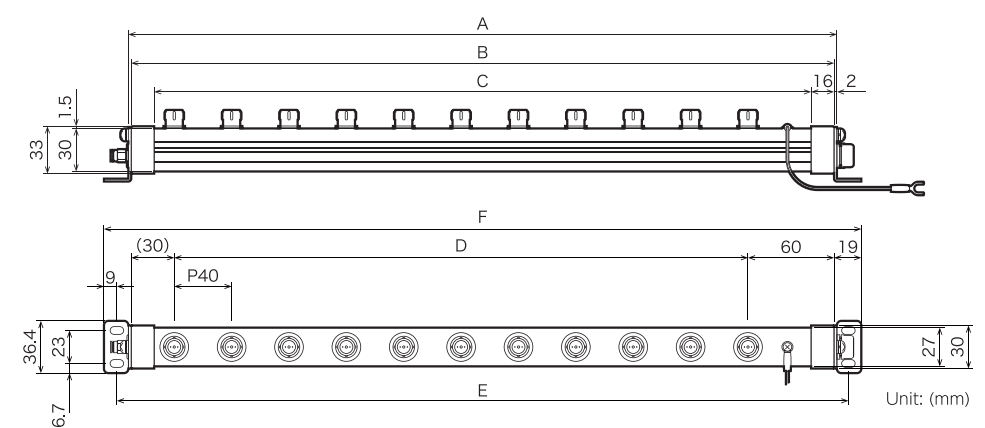
Prevention of dust adhesion	Prevention of stacking	Anti-Static	Prevention of short circuit,electric shock/discharge
Painting and manufacturing of automotive and motorcycle * bumper * wing mirror * knob * headlights Film/Sheet/Paper * vacuum forming * optical film * food packaging film Molded resin *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

■ 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

■ Dimensions

* The number of needle electrodes, weight, OAL, and others 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)	A	B	C	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