VESSEL

Black and White for your application



(€ RoHS

STATICLEAN G7R-E BBZ-E PAC-8

Gun-type Ionizers

"Top Sell" model for general applications



Low voltage 24 V DC power supply

work. (Image shows Silent Nozzle N-2WN)

24VDC low voltage input. Safe with no high voltage wires exposed.



particles.(Image shows the G7R-E)



RoHS / CE

Comply with the directive RoHS. Certified CE marking.

RoHS CE

Ergonomic and powerful at hand!

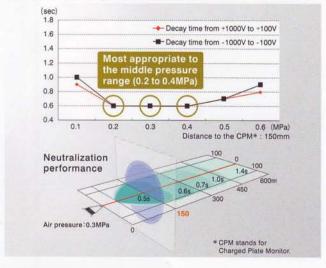


Ideal for neutralization and dust elimination of precision parts at hand, for example, in cell production.

- LED light integrated to make dust visible.
- Ergonomic grip enabling operator to hold it at a right angle.
- Non-slip grip suitable even for clean room gloves
- Lightweight and less fatigue of operators.



Accurate ionizing at hand



Specifications

Model	G7R-E		
Ion generation method	Piezoelectric high-frequency AC corona discharge		
Applied voltage	2.0 kVAC		
Power supply	24 VDC ±5%		
Current consumption	74 mA (typ. When using LED light)		
Ion balance (measured at 150mm)	within ±10 V (at 0.3MPa)		
Decay time (measured at 150mm)	within 0.5 sec (at 0.3MPa)		
Neutralization area	50 mm ~ 600 mm		
Dimensions (H × W × D)	150×36×105 mm		
Weight	198 g		
Air supply pressure	0.1~0.6MPa		
Air supply hose diameter	Φ6×Φ4mm		
Air flow	184 L/min (at 0.3MPa) / 336 L/min (at 0.6MPa)		
Noise level (measured at 1m)	89.1dBA (at 0.3MPa) / 97dBA (at 0.6MPa)		
Ozone production (measured at 50mm)	0.05 ppm or less (at 0.3MPa)		
Operating temperature	5~40°C		
Humidity	35~65% RH (non-condensing, non-freezing)		
Accessories	AC Adapter AD24-ITC-E Input voltage: 100 VAC~240VAC (50/60 Hz) 0.4 A Output voltage: 24 VDC 0.75 A Standard Nozzle G-7SN, Instruction manual		

Newly developed Enormous power over big plastic products



Ideal for neutralization and dust elimination of big plastic products made, for example, by standing up.

C € RoHS

- LED light integrated to make dust visible.
- Vibration resistant screw-in connector.

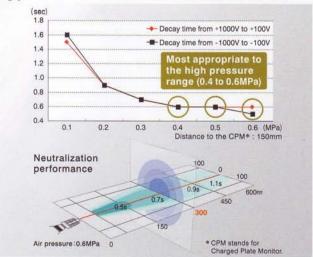
within 0.5 sec

- Intensive neutralization with a silent and high discharge air nozzle.
- Less noticeable black color from dirt.
- The long power cable (5 m) allows work in a widespread area.
- Lightweight and less fatigue of operators.



AC Adapter

Unique performance by high pressure blow-off for such big products



Specifications

Model	BBZ-E			
Ion generation method	Piezoelectric high-frequency AC corona discharge			
Applied voltage	2.0 kVAC			
Power supply	24 VDC ±5%			
Current consumption	74 mA (typ. When using LED light)			
Ion balance (measured at 150mm)	within ±10 V (at 0.6MPa)			
Decay time (measured at 150mm)	within 0.5 sec (at 0.6MPa)			
Neutralization area	50 mm ~ 600 mm			
Dimensions (H × W × D)	152×36×132 mm			
Weight	198 g			
Air supply pressure	0.1~0.6MPa			
Air supply hose diameter	Φ6×Φ4mm			
Air flow	194 l/min (at 0.3MPa) / 344 l/min (at 0.6MPa)			
Noise level (measured at 1m)	77.3dBA (at 0.3MPa) / 85.5dBA (at 0.6MPa)			
Ozone production (measured at 50mm)	0.05 ppm or less (at 0.3MPa)			
Operating temperature	5~40°C			
Humidity	35~65% RH (non-condensing, non-freezing)			
Accessories	AC Adapter AD24-ITB-E Input voltage: 100 VAC~240VAC (50/60 Hz) 0. Output voltage: 24 VDC 0.75 A Instruction manual			

Slash your air consumption by 60%!* Ecological solution for neutralization with pulse air

PAC-8

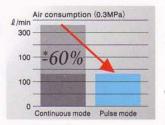


Specifications

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Model	PAC-8
Power supply	24 V DC±5%
Current consumption	70 mA (PAC-8 only)
Dimensions (H × W × D)	85.5×162×56.2 mm
Weight	610 g
Air supply hose diameter	Φ8×Φ6mm
Air flow	See chart to right
Output power supply	24 VDC±5% 680 mA (when connected to separately available AD24-ITC-E)
Operating temperature	5~40°C
Humidity	35~65 % (non-condensing, non-freezing)
Accessories	Instruction manual, 8 mm/6 mm conversion plug,

Energy-saving

Pulse mode cuts down 60%* of air consumption, compared to continuous mode.



Higher efficiency

In pulse mode, intermittent air vibrates dust particles and blows them off. Select either high-frequency pulse or low-frequency pulse in accordance with the application.

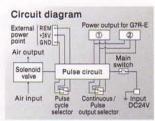


Wide connectivity

Can be used with other VESSEL ionizers such as G7R-E, N-1, N-2, and Bar types.

(BBZ-E is not connectable.)

The built-in solenoid valve is a consumable part. (Actual measured lifetime of the solenoid valve in a sample unit: 200 days in pluse mode HI or 500 days in pulse mode LOW, for 6-hour-operation. This is just referential, not guaranteed data.)



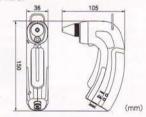
Air flow

Pressure (MPa)	0.1	0.2	0.3	0.4	0.5	0.6
Continuous mode (l/min)	125	232	330	461	567	572
Pulse mode (&/min)	50	92.8	132	184.4	226.8	228.8

* Air consumption figures in pulse mode are theoretical and do not include the losses that occur while the solenoid valve opens and closes.

Dimensions

G7R-E Gun-type Ionizer



Replacement parts

Standard Nozzle	G-7SN	(included)
Electrode Needle	G-7H	(included)
AC Adapter	AD24-ITC-F	(included)

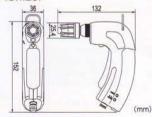
Optional parts

Tube-fitting Nozzle Brush: 60 mm bristles	N-2TN G-7B	(sold separately) (sold separately)
Electrode Needle Replacement Screwdriver	G-7DR	(separately sold)
Flared Nozzle	N-2FN	(sold separately)
Silent Nozzle	N-2WN	(sold separately)
Soft Brush: 60 mm bristles	G-7SB	(sold separately)
Speed Controller	G-7SC	(separately sold)
Micro filter	G-7F	(separately sold) *1
Relay Cable (5 m)	G-7EC5	(separately sold) *2
Relay Cable (10 m)	G-7EC10	(separately sold) *2

Micro filter avoids 99% or more of particles of a 0.01 µm diameter. Install a 1 μ m to 10 μ m air filter and mist separator on your air compressor before using this item.

*2
Relay Cable is used to connect the G7R-E to its dedicated AC Adapter (AD24-ITC-E)

BBZ-E Gun-type Ionizer

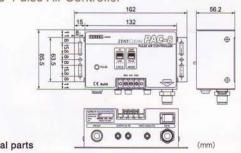


Replacement parts

Silent Straight Nozzle Electrode Needle AC Adapter

G-7H AD24-ITB-E (included) (included) (included)

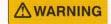
PAC-8 Pulse Air Controller



Optional parts

G7R-E Connection Cable AC Adapter

G-7RC (2.5m) (sold separately) AD24-ITC-E (sold separately)



- · Read the instruction manual carefully before using the unit.
- Do not use this unit in environments that require explosion-proofing.
- · Avoid dew condensation as it can cause electric shock and product breakage. · Do not touch the electrode needles as they are applied with high voltage. · Do not wet with water, oil, solvent, etc. as this unit applies high voltage. Also keep your operation tools and wirings away from the unit.