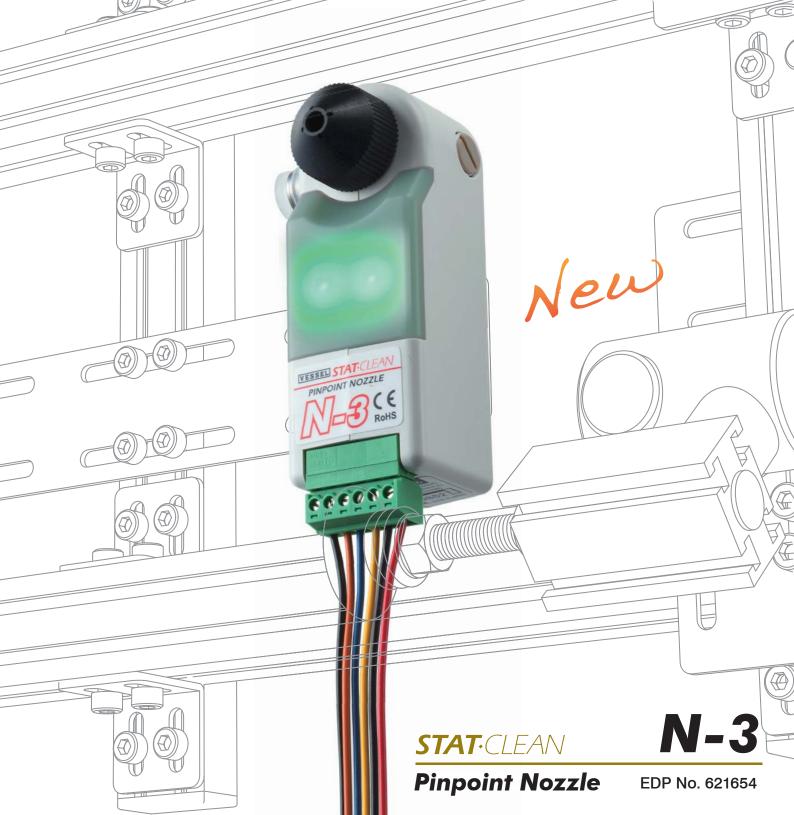


VESSEL

Compact and Precision Ionizer w/Wire-Wound Transformer

Solution for narrow and limited space like robotic arms and packing equipment



Stable Ionizing Performance

Solution especially for narrow installation space in robotic arms or packaging equipment!

NOZZLE TYPE

Compact & Lightweight Air Nozzle Type

- · Incorporated compactly the high-voltage power into the body case.
- · Static electricity and dust are removed with powerful compressed air.
- N2 (nitrogen gas) can be used instead of clean air.
- The N-3 unit has screw holes for mounting, allowing easy installation onto workpieces, etc.

STABILITY



AC Corona Discharge Method

- This method makes less frequent ion balance disruption caused by needle contamination.
- The high-voltage wired transformer ensures ample ionizing by stable current supply to the discharge needles.
- Easy to clean electrode needle
 - · Remove the nozzle cap and clean the electrode needle with a cotton stick.







SAFETY



Sate Design

- The N-3 automatically stops when an high-voltage error occurs.
- Lamp indicators clearly show the operation state.
 - The top cover lights up in green during operation.
 - If operation stops because of a high-voltage error, the body lights up in red so the operation state can be visually checked.
 - · RoHS/CE compliant product.



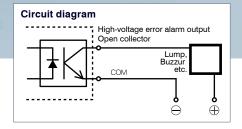


INPUT / OUTPUT



Connector Terminal

- Enable to connect multiple units of N-3 from the connector with a single power supply.
 - · Up to 11 units can be connected.
- High-voltage alarm output function
 - A signal is output to indicate that the operation has stopped due to a high-voltage error (open collector).



Applications



Pillow Packing (joint nozzle + shower tube)



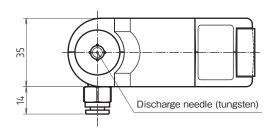
Vibratory bowl feeder (joint nozzle + shower tube)

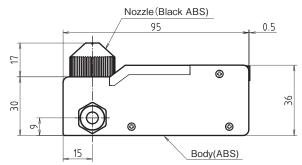


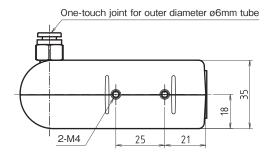
(mm)

Robots for molded parts

External dimensions







Air Consumption (w/ standard nozzle)

Input Pressure (MPa)	0.1	0.2	0.3	0.4	0.5	0.6
Air Consumption (L/min)	86	150	210	260	315	375

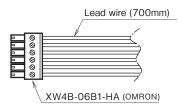
Options

Flared Nozzle	N-2FN	EDP No. 806086
Tube-fitting Nozzle	N-2TN	EDP No. 806085
Silent Nozzle	N-2WN	EDP No. 806087
Straight Silent Nozzle	BB-ZSN	EDP No. 621708
Electrode Needle Replacement Screwdriver	G-7DR	EDP No. 806061
Shower Tube	N-2C6B	EDP No. 621706

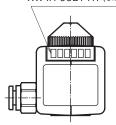
EDP No. 806124

For safety purposes, read the instruction manual carefully before using the unit.
Do not use this product in an explosion-proof area.
A high voltage is applied on this product. Make sure that water, oil, solvents, etc., do not come in contact.
A void dew condensation as it can result in electric shock or product damage.
Keep away metal objects such as tools or needles, or body parts such as fingers, hands or face from the needle electrode because a high voltage is applied on the needle electrode.

Enclosed power harness



Input/output terminal (6-pole) XW4A-06B1-H1 (OMRON)



Specifications

Input power	24VDC ±5% ripple (p-p) 10% max			
Current consumption	90mA max.			
Discharge Voltage	AC5.6kVp-p			
Ionizing method	AC Corona discharge method (37kHz)			
Ion balance	±10V or less (at the time of factory shipment)			
Decay time	0.7 sec or less ($\pm 1000V \rightarrow \pm 100V$) (at the time of factory shipment)			
Safety functions	Stops in case that high voltage error occurs (short-circuit) Current fuse 0.5A/600V			
Operating air pressure	0.1MPa~0.6MPa			
Air Consumption	210L/min (0.3MPa)			
Air Inlet Joint	φ6mm one-touch joint			
Operation Display	Operation: Green LED Abnormal stop: Red LED			
Connectors	6-pole type OMRON XW4A-06B1-H1			
Ozone production rate	0.05 ppm or less			
Operating environment temperature and humidity	5~40°C 35~65%			
Storage environment temperature and humidity	0~60℃ 35~85%			
CE	EC directive (EMC) compliant			
Installation	Indoor only			
Material	Body / Nozzle: Fire-retardant ABS resin Needle electrode: Tungsten			
Dimensions	L95×W50×H47mm			
Weight	104g			

.o., inc.

Replacement parts : Electrode Needle GN-H

17-25, Fukae-kita 2-chome, higashinari-ku, Osaka 537-0001 JAPAN Tel: +81(0)6 6976 7778 Fax: +81(0)6 6972 9441

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