Nozzle Type

N-1
Ultra-compact slim ionizing nozzle

Decay time 1.0 sec or less

N-3
Interchangeable nozzles
for a versatile application

Decay time 1.0 sec or less

HPN-1 →P33
Good for Highly Charged Products
Good for an automated production line

Decay time 0.5 sec. or less

HPF-1 →P34
Good for Highly Charged Products
Flexible installation angle adjustment

Decay time 1.0 sec. or less

Why is VESSEL's nozzle type our customer's top choice?

1

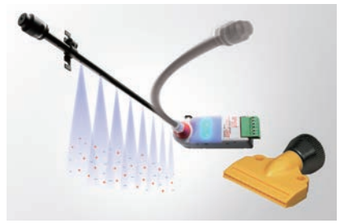
LED indicators clearly indicate the operating status

The bright LED lamps show the operating state even when installing in dark systems.

2

Diverse lineup of optional nozzles support various applications

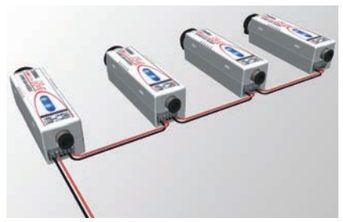
Use the optional shower nozzle or silent nozzle.



3

Daisy-chain the power cables to keep high-voltage cables inside and ensure safety

Power can be supplied to multiple units by daisy-chaining them. 24 VDC wiring enhances safe connection.



Super Slim Ionizing Nozzle

Super Compact Slim Body.

N-1

EDP No. 621639

High Voltage Transformer	Ion balance	Decay time
Piezoelectric high-frequency AC corona discharge	within ±10 V	1.0 sec or less

Power supply DC24V	Power supply: AIR/N2 max 0,6MPa	AC Adapter (Option)	Screw-type needle electrode	"ON" lamp	ALARM H.V.	External grounding terminal

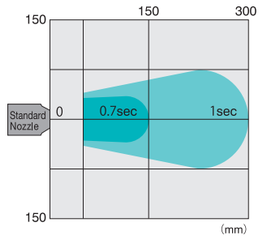
- Super slim and compact design enabling to be installed at any place for any direction. 27.5mm×28mm.
- Equipped with 6-pole terminals enabling high voltage alarm signal output as well as 24VDC daisy-chain connection.

Alarm outputs and daisy chains possible.

Specifications

Model No.	N-1
Ionizing method/Applied voltage	Piezo high-frequency AC Corona discharge method/AC5kV (p-p)
Power supply and current consumption	DC24V±5%／100mA(max.)
Ion balance	within ±10V
Decay time	1.0 sec or less (standard nozzle·0.3MPa, 150mm) (measured values)
Operating distance	50 mm to 600 mm
H×W×Dmm	L109.6×W27.5×H28mm (with standard nozzle mounted)
Weight	80 g (with standard nozzle mounted)
Air supply hose diameter	tube fitting Φ6mm
Operating fluid	Clean dry air (0.1MPa to 0.6MPa), nitrogen N^2 (0.1MPa to 0.6MPa)
Air Consumption	219ℓ/min (With standard nozzle mounted, at 0.3 MPa)
Noise	96dBA (With standard nozzle mounted, at 0.3MPa)
Ozone production	0.05ppm or less (measured 50mm)
Operating environment temperature and humidity	5°C to 40°C/35% to 65% RH (with no dew condensation or freezing)
Accessories	Standard Nozzle (included with device)

Decay area Air Pressure : 0.3MPa



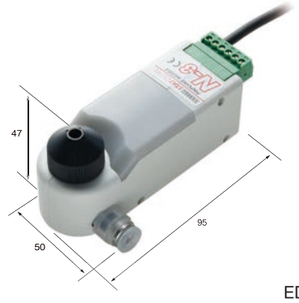
Accessories

Standard Nozzle
N-1SN
EDP No. 806120

Pinpoint Ionizing Nozzle

Featuring an LED indicator that communicates the device's operating status at a glance

N-3



EDP No. 621654

High Voltage Transformer	Ion balance	Decay time	Directive
High voltage AC corona discharge	within ±10 V	1.0 sec or less	CE

Power supply DC24V	Power supply: AIR/N2 max 0,6MPa	AC Adapter (Option)	Screw-type needle electrode	"ON" lamp	ALARM H.V.	External grounding terminal

- Easy to wire with connector terminals.
- Diverse nozzles support various applications.

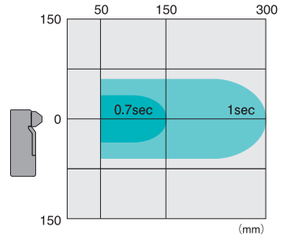
Standard Nozzle
(included as accessory)

Alarm outputs
and daisy chains.

Specifications

Model No.	N-3
Ionizing method/Applied voltage	Piezo high-frequency AC Corona discharge method/AC5.6kV (p-p)
Power supply and current consumption	DC24V±5%／90mA(max.)
Ion balance	within ±10V
Decay time	1.0 sec or less (standard nozzle: 0.3MPa, 150mm) (measured value)
Operating distance	50 mm to 600 mm
H×W×Dmm	L95xW50xH47mm
Weight	104g (with standard nozzle mounted)
Air supply hose diameter	tube fitting Φ6mm
Operating fluid	Clean dry air (0.1MPa to 0.6MPa), nitrogen N^2 (0.1MPa to 0.6MPa)
Air Consumption	210ℓ/min (With standard nozzle mounted, at 0.3 MPa)
Noise level	99.4 dBA(With standard nozzle mounted at 0.3MPa)
Ozone production	0.05ppm or less (measured 50mm)
Operating environment temperature and humidity	5°C to 40°C/35% to 65% RH (with no dew condensation or freezing)
Accessories	Standard Nozzle (included with device), Power supply harness

Decay area Air Pressure : 0.3MPa



Accessories

Standard Nozzle
N-1SN
EDP No. 806120