

Model 950 Nozzle Ionizer



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Trek's Model 950 Nozzle Ionizer provides fast and efficient removal of dust and static charge to help support manufacturing operations requiring a clean room environment. The compact ionizer uses high-pressure air flow to neutralize the static charge. It has a built-in high voltage power supply and an abnormal operation detection/warning function. The 950 operates by connecting a compressed air supply and a 24V power supply to the nozzle unit.

Using a high-frequency corona discharge to generate air ions, the 950 quickly eliminates work place electrostatic charge to support a variety of applications. Interchangeable nozzle tips are optionally available and can be quickly interchanged at the work site. The nozzle designs, which include wide-nozzle types and tube types, provide different air flow profiles to accommodate specific application needs. The unit has an LED display and contact output to indicate abnormal conditions. These functions help to quickly identify when the ionizer is operating improperly during critical production line processes.

The high voltage supply and ionizing electrode can be easily replaced through the back of the unit, which contributes to easy cleaning and replacement at the production line site with short down time.

- **Ultra-Small, Compact Body**
- **Corona-Based Discharge**
- **Variety of Air Flow Profiles**
- **Optional Nozzle Tips**
- **Ion Air Transfer Via Optional Tubes**
- **Automatic Alarm Protection for Critical Production Line Processes**
- **Easy Maintenance**
- **Removable Power Supply & Emitter Needle Eases Cleaning and Parts Replacement**
- **CE Compliant**



Measurement and Power Solutions™

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Model 950 Nozzle Ionizer Specifications

All specifications are with no load unless otherwise specified.

FEATURES

Ion Generation

High-frequency Corona discharge

High Voltage Protection

Alarm and turn-off upon detection of abnormal operation

Discharge Needle Contamination

Detection

An alarm is triggered and an output relay is energized if the discharge needle becomes contaminated

Optional Air Tube for Ion Air Transfer

High-frequency ionization enables ion air transfer to difficult-to-reach tight locations via an optional tube

Easy Maintenance

Replaceable HV power supply and ionization needle at the production work site.

PERFORMANCE

Output Voltage

3.0 kV AC

Air Purge - Fluid

Clean Air

Air Purge - operating pressure

0.05 to 0.6MPa

Alarm Output Signal (ALARM)

MOSFET relays

30V @ 0.3 amp contacts

Clean Check Output Signal (CC)

MOSFET relay

30V @ 0.3 amp contacts

Ozone Generation

0.05ppm or less (at a distance of 300mm from air outlet)

Ion Balance

±15 V or less at the work surface

PERFORMANCE (Con't.)

Gauge Pressure (when connecting Nozzle Ionizer and optional nozzle)

| | |
|-------------------|-----------------|
| -S (standard) | 0.05 to 0.60MPa |
| -TT(Teflon tube) | 0.05 to 0.50MPa |
| -100B ~ 300B | 0.05 to 0.60MPa |
| -100BL ~ 200BL | 0.05 to 0.60MPa |
| -120PSP | 0.05 to 0.50MPa |
| -C100 ~ C500 | 0.05 to 0.30MPa |
| -ST(Silicon tube) | 0.05 to 0.30MPa |
| -60S | 0.05 to 0.60MPa |
| -F | 0.05 to 0.60MPa |

GENERAL

Power Supply Voltage

24 VDC ±5% (2.4VA)

Operating Conditions

Temperature

0 to 40°C

Relative Humidity

15 to 65% (with no condensation)

Dimensions (mm)

86.5 L x 18 W x 50 H (Housing Only)

Weight

Approx. 80g (Housing Only)

LED Display Indicators

| States | Power | LED State | | Alarm | Alarm N.C. | Relay State | |
|-------------------|-------|-----------|------|-------|------------|-------------|------|
| | | H.V. | C.C. | | | Alarm N.O. | C.C. |
| Power On Normal | O | O | | | ON | OFF | OFF |
| HV Problem | O | | | O | OFF | ON | OFF |
| Cleaning Required | O | O | O | | ON | OFF | ON |
| H.V. Off | O | | | | ON | OFF | OFF |
| Power Off | | | | | OFF | OFF | OFF |

CERTIFICATE AND COMPLIANCE

TREK, INC. certifies that each Model 950 is tested and calibrated to specifications using measurement equipment traceable to the National Institute of Standards and Technology or traceable to consensus standards.

ACCESSORIES SUPPLIED

Instruction Manual

Signal to Power Supply Cable

OPTIONAL ACCESSORIES

Nozzles

P/N 950-C100 100mm Carrier Nozzle

P/N 950-C200 200mm Carrier Nozzle

P/N 950-C300 300mm Carrier Nozzle

P/N 950-C400 400mm Carrier Nozzle

P/N 950-C500 500mm Carrier Nozzle

P/N 950-60S Shower Nozzle

P/N 950-100B 100mm Bar Nozzle

P/N 950-200B 200mm Bar Nozzle

P/N 950-300B 300mm Bar Nozzle

P/N 950-F Flat Nozzle

P/N 950-TT Teflon Carrier Tube Nozzle

P/N 950-ST Silicon Carrier Tube Nozzle

AC Adapters Kits

P/N 950-24V-1 AC Adapter Kit (includes power supply, signal cable and ground wire)

P/N 950-24V-2 AC Adapter Kit (includes power supply)

Model 950 Accessories (supplied)

Operator's Manual

Signal to Power Supply Cable

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All specifications are subject to change.

1230/DEC

Model 950 Optional Accessories

Nozzles - Please select from the part numbers listed above

AC Adapter Kits - Please select from the part numbers listed above



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