Instruction Manual

Pencil type ionizer
[Piezonia Model ANZ-S3]  

Thank you for purchasing the Piezonia ANZ-S3. As to the use of this equipment, you must have sufficient considerations after reading this manual carefully because it deals with alternating currents with high voltage of 250V, although the product is not stipulated as high-voltage equipment in the electric equipment standard. Please read this manual before using the product in order to fully understand its functions. Also make sure to store this manual so that it can be referred to in the future.

**Warning**
- This product is not supplied as a discharge needle type. Do not use this unit at a location or atmosphere, in which combustible gas or solvent is handled, or else ignition or explosion may occur.
- A high voltage is applied to the discharge needle. Do not allow any conductive material, including your body, any part of your body, wire or any tool to get close to the needle, or an electrical shock accident or a malfunction may occur.
- The tip of the discharge needle is sharp, be careful not to touch the discharge needle.

1. Outline
- By holding the pencil-type and air nozzle in hand, the user can blow the ionized air on a charged object to stabilize the static electricity, and it removes dust sticking to the charged body by static electricity and prevent a contamination.
- We can control pressure and control the width of the discharge needle. Contact setting can be configured for continuous or intermittent (5Hz or 10Hz) blowing of ion air.

5. I/O Circuit Diagram
- 1) Pins 1 and 3 are connected to the AC adapter.
- If the abnormality output is to be used, attach plug connector and contact as specified in the diagram below.
  1. Controller internal circuit
  2. External circuit

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6. Wiring and piping
- Be sure to turn OFF the power and air before installing, wiring, or piping the product.

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2. Specifications
- Model No: ANZ-S3
- Power-supply voltage: 100-240V 50/60 Hz, 1.5A
- Input current: 0.63A
- High voltage output: AC 500V max. 700V max. 1000V max.
- Applicable fluid: Air, water, etc.
- Air pressure: 500kPa (5 MPa)
- Maximum flow rate: 0.2m³/min
- Controller: 120W 5Hz 7Hz
- Dimensions (mm): 175 x 155 x 350
- Weight: 10kg
- Ambient temperature: -10 to 50°C
- Ambient humidity: 5% to 90% non-condensate
- Indicator LED: Green: normal operation / Red: Abnormal-discharge
- Control knob: AC 30V to 390V
- Max. air flow rate: 2500m³/hr
- Min. pressure: 1.5kg/cm² (15KPa)
- Blowout converter: 2.5Hz to 10Hz

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10. Cautions
- This product was designed and manufactured for use in General Industrial Machinery. It may not be used for any purpose other than charge removal.
- Do not disassemble or remodel the product.
- This product emits ozone into an atmosphere. Do not use this product in an enclosed space.
- Do not insert any foreign objects into the product. Doing so may result in a short circuit on the inside, damage, and fire or electric shock.
- Failure to do so may result in fire or a short circuit.
- Do not directly touch the ozone emitting area and the air outlet.
- Do not connect other ionizers to this product.
- Do not turn ON the ionizer when the power is not turned off, as an abnormal output is supplied. After turning OFF the ionizer, wait 1 second or more before turning it ON again.
- Do not run the wires together with high-voltage lines or power lines, place them in the same pathway. This can cause malfunction or induction.
- Do not use the supplied cable for AC adapter or power supply cables inside the products for a moving section. Otherwise, they may break down.
- Avoid scratching the control board area and other areas. Leaking the contents of the discharge needle is a serious problem because it could result in employee injury, equipment breakdown, or electrical shock, etc.

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Letter of Guarantee

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