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STATECH SYSTEMS STS

INSTRUCTION MANUAL
AIR IONIZER GUN TYPE ANZ-SC3

Thank you very much for having bought Piezonizer Model ANZ. 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 2000V, although the equipment is not stipulated as high-voltage equipment in the electric equipment standard.

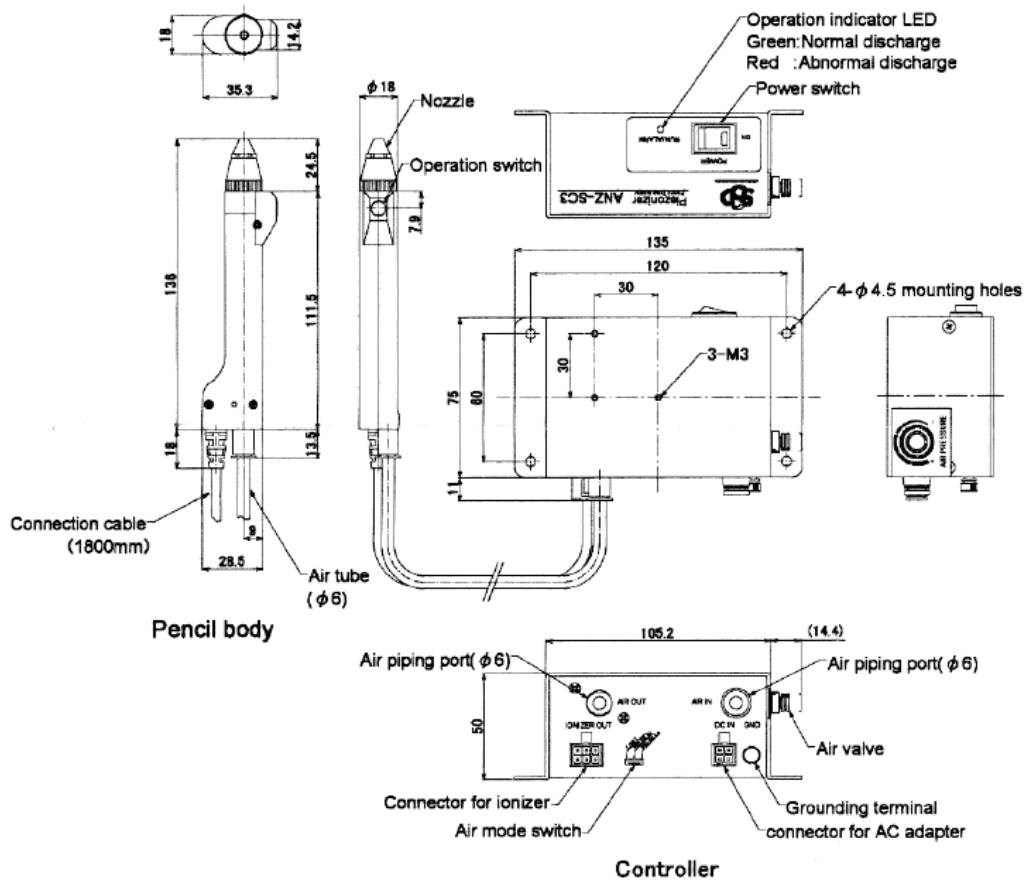
⚠*WARNING 1*	*This equipment is not explosion-proof. Do not install it in a place where flammable gases or solvents are handled, such as in a painting booth*
⚠*WARNING 2*	*Prevent this equipment from being installed in a place where it is splashed with water or oil, or in a hot and humid place, and especially a very humid place with a possibility of appearance of dewdrop should be avoided.*

1. GENERAL

This ANZ-SC3 is, as a countermeasure against static electricity, a quick-acting air-blow type IONIZER as Pencil type.. Ion air neutralizes static electricity of charged objects immediately and effectively and removes dust stuck to the objects by static electricity to prevent contamination.

2. STRUCTURE AND KINDS OF THE IONIZER

This IONIZER consists of the following parts: Main Body, Dispatching, Control Box and AC Adaptor. It applies high-frequency-high-voltage from the high-voltage transformer to the discharge needle inside, giving off alternating current corona discharge toward the metal cap (earth electrode), and produces positive and negative air ion. It transfers the air ion by air. The Ion air neutralizes static of charged objects located away and removes dust stuck to the charged objects. The characteristic of this equipment is that it can transfer ion air by using the optional air tube in addition to air-blowing directly through the air nozzle. Control Box is for control "Power" and "Air-Supply" with Air regulator and Power Switch.



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4. SPECIFICATIONS

Method to Generate Ion	*Corona discharge with high frequency*
Input Voltage	*DC24V*
Capacity	*10 VA*
Output Voltage	*AC 2.5kv*
Supplied Air Pressure	*0.05~0.6Mpa*
Size	*Pencil body: Dia. 18 x 154L*
	Control Box: 135W x 50H x 75D
Weight	*Pencil Body: 95g* *Control Body: 1,180g*
AC Adaptor	*Input : AC 100~240V, 50/60Hz* *Output : DC24V*

Air Pressure (Mpa)	*0.1*	*0.2*	*0.3*	*0.4*	*0.5*	*0.6*
Air Flow (l/min)	*47*	*73*	*103*	*136*	*165*	*190*

5. INSTALLATION and WIRING

⚠ *WARNING* *This ANZ-SC3 have sensitive Piezo Transformer inside itself, don't drop or give any impact.*

6.1 Air Nozzle ANZ-SC3

Basically handle by hand, in case out shell of main body is grounded it makes Alarm Signal. It happens Alarm, cover the main body with insulation film or tube.

6. Power supply and Air tubing

7.1 Wiring

Connect each cables as Picture 1. and supply the AC power (AC 100~240V).

7.2 Air Tubing

Install the air hose "Outside diameter 6mm" at the air-inhaling part of the equipment. Extend the air hose to the air source (Air compressor, Blower) through the pressure adjuster. Supply pure air (air which does not include water and oil) to the electrode.

GENERAL N.B. for IONIZER INSTALLATION

At the time of installing the equipment, pay attention to stain caused by water and oil, high temperature, and humidity. and especially a very humid place with a possibility of appearance of dewdrop should be avoided. The best installation place of the electrode to remove electricity is just in front of the place where troubles are caused by static electricity. If the electrode to remove electricity is installed at the place the charged object touches or is closer to another object, the effect of removing electricity can not be obtained, so install the equipment at a place where the charged object is floating in the air.

7. OPERATIONS

For Ready to Operation,

1: Install the equipment at a designated place, and conduct power source wiring, grounding wiring, and Clean Dried air.

2: Supply AC100~240V through the AC Adaptor.

3: Turn the power switch of Control box on.

4: Adjust the level of air pressure with the regulator of Control Box as you want.

** Push the power switch of ANZ-SC3 "ON", the power source of high voltage starts and corona discharge is generated at the discharge electrode, producing air ion.*

** Open the main valve of air equipment(installed by your company) , and supply air to the nozzle with designated pressure after adjusting the pressure adjuster. With pulling the Lever switch, Ion air is blown out from the nozzle and static electricity of the charged object placed in the air flow is neutralized and removed. Pay attention to excessive air pressure, which will lower the effect of removing electricity. Use it below the upper limit.*

** Back the power switch "Off", power will stop and also air will stop.*

8. MAINTENANCE AND N.B.

Since the insulator, which is a part of the electrode of removing electricity, gradually becomes deteriorated with exposure to alternating high-voltage electric field, it is necessary to regard it as an expendable supply. The expected life span is thought to be 10,000 hours even if sufficient maintenance is conducted, and replacement is recommended. If the maintenance is not sufficient, its life span will be shorter. The maintenance is very important. This equipment is supposed to be placed at a place where it is free from water and oil, etc.....If it were splashed with water, oil, or paint, wipe it out with waste or cloth. A special attention is necessary for the high-voltage.

- *Clean-up of the Discharge Needle and Its Surrounding Area*

  The dirty tip of the discharge needle lowers the ability to remove electricity. When the effect of removing electricity is declining, clean it up with a nylon brush. (Do not use a wire brush.) Revolve the metal cap of the nozzle and take it away from the pipe body, and clean up the discharge needle and its surrounding area inside the pipe with waste or a brush. After the cleanup, put the metal cap back firmly.

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