



ECO-N01 HIGH PERFORMANCE AC IONIZING AIR NOZZLE INSTRUCTION MANUAL

1 INTRODUCTION

ECO-N01 ionizing air nozzle is a kind of firm fixing type static-eliminating special device. It features simple operation, safe and steady working state, short static elimination time, etc. especially suitable for all kinds of winding machines and imprint and manufacture line.

2 OPERATING THEORY

ECO-N01 ionizing air nozzle generates lots of positive and negative charges air masses and in the meantime make compressed air blow out quickly to neutralize charges on objects. When object surface is charged with negative charges, it can attract positive charges in radiate areas; when object surface is charged with positive charges, it can attract negative charges in radiate areas. Therefore, the static on object surface is neutralized and the purpose of eliminating static is reached.

3 FEATURES

- Quick neutralizing static;
- Safe and steady working performance;
- Simple and convenient operation;
- This equipment possesses good grounding protection;
- Excellent ion balance control: $\leq |\pm 15|V$.

4 TECHNOLOGY PARAMETERS

- Working voltage: 5.6KV
- Consumed current: $\leq 300\mu A$
- Air flux: $> 300CFM(5KgF/cm^2)$
- Operating temperature: $0^{\circ}C \sim 50^{\circ}C$
- Compressed air pressure: $3 \sim 5Kg/cm^2$
- Ozone content: 0.03PPM

5 DATE CHART OF ION BALANCE TIME

Testing voltage:	$\pm 1000V$ to $\pm 100V$	Test environment:	Temperature 24℃
			Humidity 55%
Test distance		150mm	
Item		Static decay time	Ion balance
Eliminate positive charge		0.9s	10V
Eliminate negative charge		1.0s	10V

*Static decay time measures up with ESD standard. Static decay time is tested on the testing voltage from $\pm 1000V \sim \pm 100V$.

*Test instrument: TREK 156A static integrated instrument.

*The testing data will vary with temperature and humidity of air around.

6 SAFETY

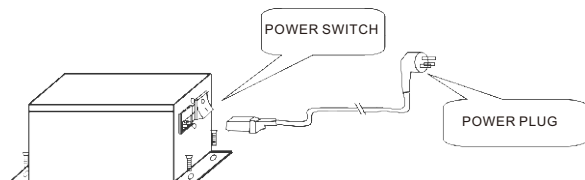
- Please read the operating instructions completely before installation;
- Make sure the equipment has reliable grounding before operation;
- Do not use this equipment under inflammable gases and powder and dust environments;
- Keep the air nozzle dry, non-oil and clean;
- Do not refit or repair the air nozzle by yourself.

7 INSTALLATION AND OPERATION

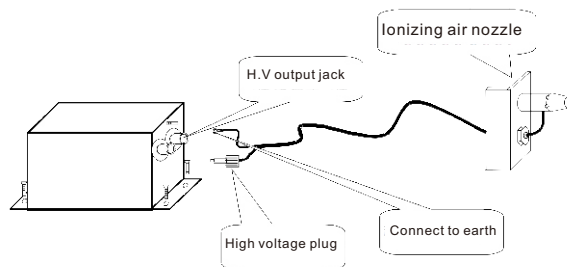
To use, ECO-N01 needs to be equipped with ECO-H03T at the same time. Please insert the connection wire end of air nozzle into high-voltage output jack of high voltage generator and turn it clockwise to bottom; and then, connect grounding cord of air nozzle connection wire onto the grounding pillar and ensure good grounding. Insert power plug of high voltage generator into socket with grounding cord (pay attention to the use voltage of high voltage generator) and fix the air nozzle on the proper position and plug into compressed air pipe. At this time, turn on the power supply and the air nozzle can work normally.

Dust might build up on the ion needles around after air nozzle is used for a period of time, so our company suggests cleaning work should be done one time each week at least. Note: turn off the power when cleaning.

7.1 Power supply installation



7.2 Air nozzle and high voltage generator installation



8 WARRANTY AND SERVICES

HORB tenet: high quality, good credit standing and customers paramount to all others. The following promises are available for ECO products:

■ Warranty period

From the purchase day on, we offer one year warranty. In the warranty period, we will repair the products for free because of quality problems caused by product parts itself and material and craftwork. The warranty is not available, if the equipment is used abnormally.

■ Services available after warranty period

After warranty period, we will still take responsible for product repair with no manual working fee to protect customers' interests.



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■ Suppliers Information

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