



ECO-B03 IONIZING AIR COPPER BAR INSTRUCTION MANUAL

1 INTRODUCTION

ECO-B03 ionizing air copper bar is a kind of firm fixing type static-eliminating device and belongs to bar type static-eliminating products. It features convenient installation, safe and steady working state, short static elimination time, etc. suitable especially for all kinds of winding machines and imprinter and manufacture line.

2 OPERATING THEORY

ECO-B03 ionizing air copper bar generates lots of positive and negative charges air masses and in the meantime make compressed air blow out quickly to neutralize charges on objects in ion radiate area. 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 installation;
- This equipment possesses good grounding protection;
- Large effective coverage when compressed air is blown.

4 TECHNOLOGY PARAMETERS

- Working voltage: 5.6KV
- Operating distance: 100mm~600mm(with compressed air)
- Operating temperature: 0°C~50°C
- Ozone content: 0.04PPM
- Compressed air pressure: 3~7kg/cm²

5 STATIC DECAY TIME AND ION BALANCE

Testing voltage:		±5000V~±500V		Environment temperature:		24°C	
Test distance	100mm		400mm		600mm		
	Neutralization time	Ion balance	Neutralization time	Ion balance	Neutralization time	Ion balance	
Eliminate positive charge	0. 1s	-20V	0. 7s	-16V	1. 0s	+10V	
Eliminate negative charge	0. 2s	-22V	0. 9s	-20V	1. 2s	+13V	

*Static decay time measures up with ESD standard. Static decay time is tested on the testing voltage from ±5000V~±500V.

*Test instrument: TREK 157 static integrated instrument.

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

6 SAFETY

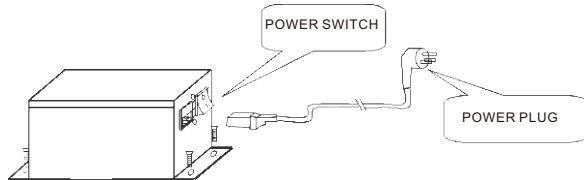
- Please read the operating instructions completely before installation;
- Make sure this equipment has reliable grounding before operation;
- Do not refit or repair the ionizing copper bar by yourself.

7 INSTALLATION AND OPERATION

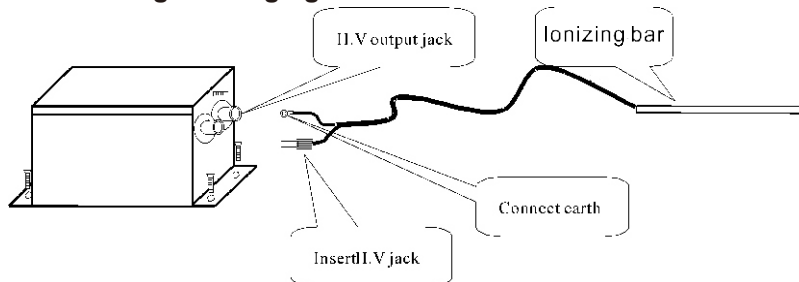
To use, ECO-B03 needs to be equipped with ECO-H02T/H02F high voltage generator at the same time. Please insert the connection wire end of air copper bar into high-voltage output jack of high voltage generator and turn it clockwise to bottom; and then, connect grounding cord of air copper bar connection wire on the grounding pillar and in the meantime 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 copper bar on the proper position. At this time, turn on the power supply and the air copper bar can work normally.

Dust might build up on the ion needles around after air copper bar 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 copper bar 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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