

OVER HEAD IONIZER

(Model: OHI-01)

Air ions are molecules that have lost or gained an electron. Ions are present in normal air but are “stripped” out when an air is subject to filtration and conditioning. They are produced by radioactive emission or by phenomenon called “corona discharge” where a high voltage is applied to sharp point.

All air ionization systems work by flooding the atmosphere with positive and negative ion, when ionized air comes in contact with a charge surface; the charge surface attracts ions of the opposite polarity. As a result the static electricity that has build up on products, equipment and surface is neutralized.

Typically, air is very insulative with a resistive exceeding $10E15$ ohms/meter. By increasing the numbers of ions in the air it is possible to lower the Resistivity of the air to $10E11$ ohms/meter, there by making the air more conductive. Conductive air can neutralize the static charge on every surface that it contents. The field from the charged surface attracts ions of the opposite polarity until the charged on the surface is neutralized.

The *Over Head Ionizer* is portable and uses a four fan to produce airflow. High voltages generated out of the supply line voltage are applied to stainless steel ion emitter points. These points produce intense alternating polarities, ionizing the air instantly in the fan airflow.

The *Over Head Ionizer* is designed for use when handling sensitive electronic components where electrostatic discharge is a problem. The unit can also used where static electricity causes problems such as; attraction of drift to product, misalignment of small parts due to electrostatic “jumping” and undesirable adhesion of plastic films due to electrostatic charge.

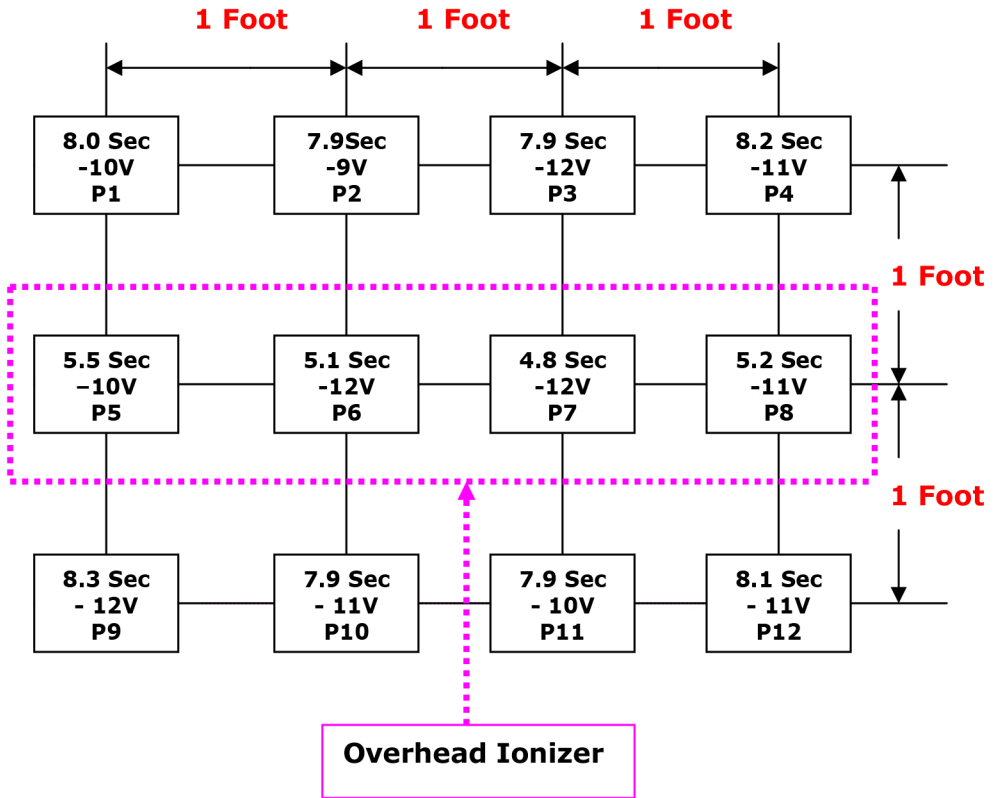




Specifications:

Air flow	: 90 CFM
Noise Level	: 43 dBA
Power Supply	: 210V – 250V AC/50Hz
Ionization Voltage	: +/- 6KV
Un Balance Voltage	: < +/- 50V
Construction	: Power coated MS cabinet
Dimensions	: 1220 x 200 x 120mm
Warranty	: One Year

Ions Coverage Area: -



Test Conditions

(P1 – P12) Test data available using ME268A Charge plate monitor

Test Figures are subject to the variation in the atmosphere and input Ac voltage.

Decay Times are found from 1000V to 100V in accordance with EOS/ESD S-3.

All data taken using full blower speed

Distance between the Ionizer and charged plate monitor 24 Inches



THADHANI[®]
The Experts in Safety... Since 1947

J.THADHANI & CO.

New #12/ Old #28, Stringers Street,
Chennai - 600001, Tamilnadu, India.



044 - 4262 5223



info@thadhanisafety.com



www.thadhanisafety.com