

DATA SHEET
BENCH TOP IONIZER
(Model: BTI-01)

Bench top ionizer are useful in neutralizing generated electrostatic charges, which may cause Electrostatic Discharge, Electrostatic Attraction, as well as preventing equipment latch-up and safety related shock. The model BTI-01 is a portable unit designed to neutralize static charges from insulator surfaces in assembly areas, wave soldering lines, laboratories, storage racks, test stations and packing areas.



The Ionizer works on the principle of high voltage corona discharge to produce the neutralizing ions, and it produces ions airflow that is rich in positive and negative ions directing the airflow on an object that has static electricity in order to neutralize the charges. It will be neutralized by attracting opposite polarity charges from the ionized air. It does what grounding cords, table mats & antistatic laminates cannot do (i.e., remove the static charges from insulator objects and surfaces). More over the bench top ionizer is designed with compact high voltage pulse circuitry for continuous trouble free operation.

SPECIFICATIONS:

Power supply	: 230V AC 50Hz
Power consumption	: 25 watts
Speed	: 2550 RPM
Air flow	: 2.24 m ³ /min
Noise	: 45 dBA
Static pressure	: 6.4 mm H ₂ O
Ionization voltage	: 6 - 8 KV
Ion balance	: under +/- 100 V
Construction	: Powder coated MS cabinet
Dimensions in mm	: 225 x 190 x 110 (with stand & knob bolt)
Weight	: 2.7 kgs
Warranty	: One year

Users Manual
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OPERATION:

Activate the Bench top ionizer switch on the On/Off switch.

The unit produces an ionized air that covers a targeted area. The time required to neutralize a static charge on an item in the air-stream depends on distance from the charged object and the air velocity. For fast neutralizing, the item should be held with in 1 to 2 feet from the unit. For virtually instantaneous neutralization, the item may be held as close at 6 inches.

ION OUTPUT CHECK: To test the unit for ion output, charged plate monitor is recommended. Discharge times can be measured and checked against the ion output. If a charged plate monitor is not available, the ion output may be checked with the following procedure. Take a piece of plastic and rub it with cloth until a static charge can be read with the STATIC FIELD METER. Turn on the bench top ionizer and Hold the plastic one-foot away from the ionized air outlet for 2 - 3 seconds. Take away the plastic from the ionized air and measure the static charge. The plastic should be neutralized.

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MAINTENANCE: It is recommended that once in a year, the high voltage emitter pins should be cleaned with a soft cloth dipped in alcohol. Before doing this always switch off and unplug the unit. There are no user serviceable parts inside. In case malfunction, kindly refer servicing to manufacturer or authorised personnel.