

# Installation/Operating /Maintenance Instructions

**Manufactured by:** *ElectroStatics, Inc.*, 352 D Godshall Drive, Harleysville, PA 19438  
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**Product:** Dynastat™ 320 Ionizing Air Blower, 90732-02413

## **Product Features:**

- Instant neutralization
- Twin blowers
- Rugged design
- Variable air control
- Continuous Duty

## **Description/Function:**

The Dynastat™ 320 is designed for permanent production line installation where high volumes of ionized air are required. It contains twin centrifugal blowers, which will provide 320 cubic feet per minute of ionized air. The unit is ruggedly designed to withstand continuous use over an extended period of time. Its method of mounting permits adjustments to insure a direct stream of ionized air into the area requiring neutralization

## **Product Specification:**

### **Dyanstat™ 320 Blower**

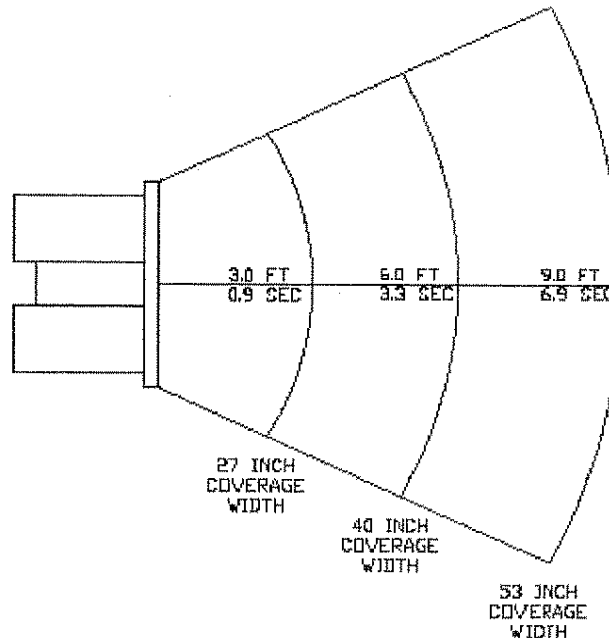
Size 13.50"w x 9"H x 9.50"D  
Weight 16 lbs.  
Air volume output 100-320 CFM  
Line Cord (LV) 8'

### **Power Unit:**

Weight	4 lbs. 5 oz	Input	120 Volts, 0.5A
Size	5 3/4 x 3 1/2 x 3 3/4	Output Voltage	4 KV
Line cord (LV)	8'	Frequency	50/60 HZ
		Current Limited	5 mA

## Performance Chart -

TOP VIEW OF DYNASTAT 320  
EFFECTIVE IONIZING RANGE



## Product

### Inspection:

Carefully remove the equipment from the shipping container; check it against the packing list and inspect product for damage or parts missing. If there has been damage, report it immediately to the local carrier who delivered the product. Notify *ElectroStatics*, Incorporated, 352 D Godshall Drive, Harleysville, PA 19438-2017, NOTE: If product must be returned to *ElectroStatics* for any reason, call and obtain an RA# (return authorization number.) Pack product properly for safe return to *ElectroStatics*, Inc. Telephone 215-513-0850. A complete standard system consists of: 1 - Dynastat™ 320, ionizing air blower, 1 - mounting bracket - 70007-01600, 1 - Model T1246SL Power Unit - 90010-12463.

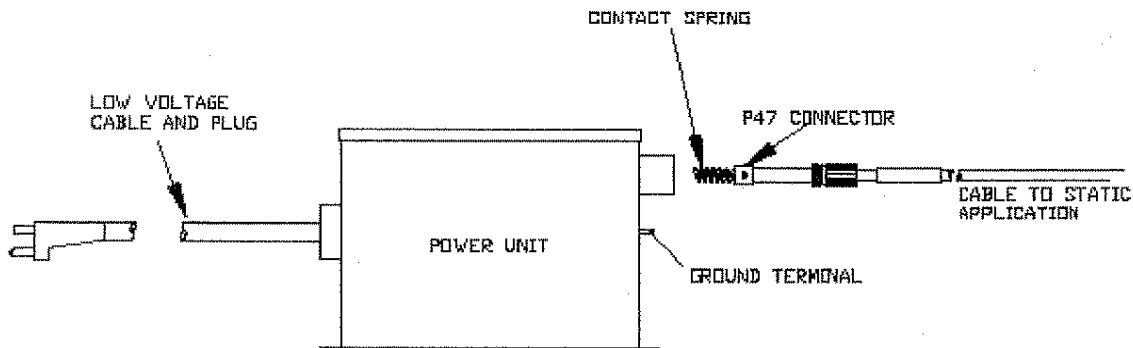
### Pre-Installation Notes:

Optimum results dictate the face of the Dynastat™ 320 Ionizer should be between 2.5' and 3' from the material to be neutralized. The ionizer requires two (2) line voltage (120 v - 50-60 HZ) connections, one (1) for the ionizing air blower and one (1) for the power unit. The line voltage connections should be within 8' of the ionizer.

### Installation:

1. The Dynastat™ 320 should be mounted against a solid grounded frame. If the mounting frame is grounded there is no need to use an external ground. However, since ground is an important part of the ionizer's efficiency, and if there is any question as to the mounting to a grounded frame, an external ground wire must be used. Connect a #12 wire to ground terminal on the blower housing and attach the other end to a known ground, i.e. water pipe or an electrical ground.
2. The unit comes with a section of slotted angle. This should be positioned with the horizontal flange down and in the direction of proposed air -flow. Once fastened, the u-bolt is slipped over the housing through the collar and the slotted angle. Attach nuts and tighten.

3. The unit can be positioned in any plane by adjusting the u-clamp (loosen, position and tighten).
4. Plug fan electrical line into 120 volt, 50/60 HZ grounded outlet.
5. Since ground is an essential part of the performance of the blower, it requires the power unit to be thoroughly grounded. Also, when plugging the power unit into an ungrounded receptacle, a shock will be felt when touching the power unit. If an ungrounded receptacle is used, it will be necessary to locate a cable between the ground terminal on the power unit and a known ground. (Grounded side frame of machine or metal water pipe). Mounting power unit to grounded side frames of machine automatically grounds power unit.
6. Remove power unit port cover and place the P47 connector (see sketch) located on the end of the power-line into one of the power unit ports by inserting the connector spring end into the port and tightening the retainer nut. **HAND TIGHT ONLY.** Do not use pliers.



7. Check again items 1 through 6.
8. When satisfied all areas are well grounded, plug in the 120 volt power line from the power unit (3 prong plug) into a 120 volt grounded outlet (or if 220 volts was ordered, it will be necessary to attach a 220 volt plug to the pigtail on the low voltage side of the power unit).
9. Adjust the air volume speed control making sure the air is reaching the material to be neutralized.

## **Post Installation Notes (Testing)**

In order to insure proper performance, the ionizer should be tested to prove results. There are two ways of testing:

1. Using a long shank, screwdriver with a plastic handle, approach the ionizing point through the front grill opening making sure the metal shank of the screwdriver is against the metal portion of the grill face. As you approach the point about 1/8" - 3/16" you will note a blue arc. To better see the arc, it is best in a darker area.
2. Friction a piece of plastic film until it wants to cling to your hand or machine frame. Note: Make sure not to friction the plastic while in the ionizer's air stream, as it will neutralize the plastic immediately, rather turn your back toward the blower while frictioning. When a static charge has been developed on the plastic, pass the plastic through the ionizing stream. You will note the material will not cling to your hand or machine part.

A static /locator meter, Model 9000 (P/N 90930-10001) is a most effective tool for locating and measuring where static is present. Also, the meter will determine the efficiency of the ionizing blower. The meter is available from *ElectroStatics, Inc.*

## **Maintenance:**

The Dynastat™ 320 is built for continuous duty. However, like any tool, care in handling will insure its performance and life. Should any part of the unit fail, repairs must be done at the factory.

It is essential the ionizing points be kept clean. Over a period of time the points and the surrounding

metal will build up with contamination. Periodically these should be cleaned. Turn off power unit. Take a rubber eraser and push onto the points, and with a rotating motion clean the point. Continue this with each point. Also, you may take a Q-tip and dip in Isopropyl alcohol. (not dripping wet). Clean point and surrounding metal. Once clean, turn air on and blow until alcohol is thoroughly dried before turning on.

#### Filter Replacement:

Clean or replace filter media as it becomes filled with contamination.

Replace both input filters by removing the four (4) screws holding on the air input ring. Remove and replace filter media and re-secure the ring.

#### Safety Issues:

*Do not use the Model Dynastat™ 320 in a hazardous area.*

#### Replacement Parts:

A. Mounting Bracket 70007-01600

B. Replacement Filter Media 99004-01011

C. Power Unit Model #T1246SL-90010-12463, 110 volt  
#T2246SL-90010-22463, 220 volt

#### Warranty:

*ElectroStatics* warrants the product to be free from defects in material and workmanship under normal use and service. *ElectroStatics'* sole obligation under this warranty shall be limited to replacing or repairing, either at it's plant or at installation site, any product or part thereof which shall, within 1 year after date of delivery be returned to *ElectroStatics* and which *ElectroStatics* examination shall disclose to have been thus defective. This warranty is expressly limited to parts and components specifically manufactured by *ElectroStatics*. This warranty is expressly in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for particular purpose. There are no warranties, which extend beyond the description of the face thereof. No person, firm or corporation is authorized to assume for *ElectroStatics* any other liability in connection with the sale of this product. Any adjustment or attempted repairs to the product will void the warranty. Should product require servicing, contact *ElectroStatics* for assistance.

WARNING: PRODUCT WARRANTY IS AUTOMATICALLY VOIDED IF CONNECTED TO POWER UNIT OTHER THAN *ELECTROSTATIC*S. ALWAYS CHECK NAME PLATE ON POWER UNIT TO MAKE SURE THE INPUT VOLTAGE IS CORRECT FOR THE RECEPTACLE BEING USED.

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# DYNASTAT 320 SERIES IONIZING BLOWER

