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Greyscale Product information for The Statitrol PL-300

Statitrol Corporation

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NEUTRALIZE STATIC ELECTRICITY!

THE STATITROL PL-300 immediately and effectively removes all static charges from surfaces within the area of its air distribution. High level static charges that are outside the area will also be removed... depending upon amount of charge and distance from the airstream.

THE PL-300 produces both positive and negative "surplus" ions (electrical charges). A positive charge on a material will draw negative charges out of the airstream to effect neutralization.

SPECIFICATIONS

DIMENSIONS
LENGTH ................. A .... 20 inches
WIDTH .................. B .... 8½ inches
HEIGHT .................. C .... 9 inches
OVERALL HANDLE ...... D .... 22½ inches
OVER HANDLE ........... E .... 11¾ inches

LIGHT WEIGHT
Portable—weighs only 21 pounds

RUGGED CONSTRUCTION
Steel Chassis, 18 gauge
Extruded aluminum handle and support bracket provides unlimited mounting positions.
Heavy-duty, cast-aluminum adjustment knobs for easy adjustments.
Furnished with Wall Mounting Bracket

ECONOMICAL
Power consumption ... 20 watts
115 volts, 60 CPS, single phase
Voltage adjustable for peak efficiency
Optimum setting—"110" to "120"

FAN
Top quality—axial vane type
100 cubic feet per minute air delivery
Quiet operation, 5 year guarantee
No oiling required. Fan removable, snap-out frame
The axial vane type fan was selected because of its proven performance in hundreds of computer installations. As the only moving part of the PL-300, continuous reliable operation is assured.
Area of effective static control

To define area, a yardstick in terms of quantity of static charge has been developed.

The measure of an electrostatic charge must relate to surface area and strength, or quantity, of charge. Therefore, a new unit of measure is introduced—for the first time—the KILOVOLT FOOT.

ONE KILOVOLT FOOT (KVF) = 1000 volts of electrostatic charge evenly distributed over a surface area of one square foot, either positive or negative.

Rate of neutralizing (reducing) a charge can now be identified. Kilovolt foot per second (KVF/S) is the reduction of a charge at a rate of 1000 volts over a surface area of one square foot in one second.

Rate of charge generation is important to “moving” processes.

The PL-300 will neutralize static charges, whether positive or negative, according to the following table:

<table>
<thead>
<tr>
<th>PL-300</th>
<th>COLUMN I</th>
<th>COLUMN II</th>
<th>COLUMN III</th>
</tr>
</thead>
<tbody>
<tr>
<td>THROW*</td>
<td>Less than 2 seconds</td>
<td>Less than 10 seconds</td>
<td>Less than 30 seconds</td>
</tr>
<tr>
<td>1 FOOT</td>
<td>6 FEET</td>
<td>15 FEET</td>
<td></td>
</tr>
<tr>
<td>SPREAD**</td>
<td>HORIZONTAL</td>
<td>1½ FEET</td>
<td>4 FEET</td>
</tr>
<tr>
<td>VERTICAL</td>
<td>1 FOOT</td>
<td>2 FEET</td>
<td>3 FEET</td>
</tr>
<tr>
<td>NEUTRALIZING RATE</td>
<td>2.5 KVF/S</td>
<td>.5 KVF/S</td>
<td>.166 KVF/S</td>
</tr>
</tbody>
</table>

*Throw is the distance from the PL-300 in the center of the airstream.
**Spread is the width and depth of the airstream at the maximum throw.

NOTE: A neutralizing rate of .05 KVF/S or higher is considered sufficient for normal darkroom operation. Positive and negative ions (electrical charges) are produced in almost identical quantity with a slight excess of negative.

In terms of concentration of electric charges in each cubic foot of air at the distances shown in the table, the following are actual laboratory measurements:

- COLUMN 1 (1 FOOT) ... 2500 Pico Coulombs per cubic foot
- COLUMN 2 (6 FEET) ... 150 Pico Coulombs per cubic foot
- COLUMN 3 (15 FEET) ... 20 Pico Coulombs per cubic foot

Manufactured by the STATITROL CORPORATION. 1030 W. Ellsworth Ave., Denver, Colorado 80223