

1-1-1970

Colorscale Product information for Statitrol PL-300

Statitrol Corporation

Follow this and additional works at: <https://digitalcommons.wpi.edu/ms055-02-0006>



Part of the [Entrepreneurial and Small Business Operations Commons](#)

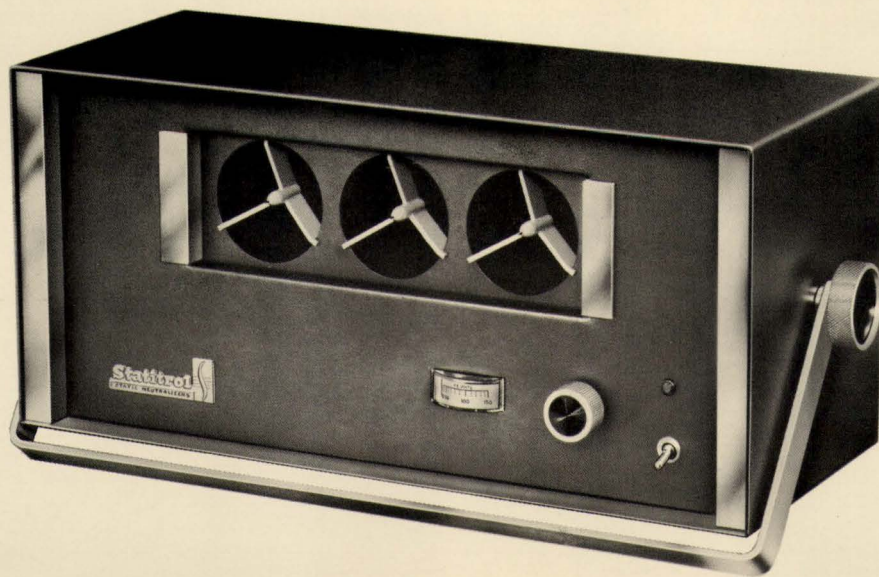
Recommended Citation

, (1970). Colorscale Product information for Statitrol PL-300. .

Retrieved from: <https://digitalcommons.wpi.edu/ms055-02-0006/5>

This Other is brought to you for free and open access by the MS055-02 Statitrol Records at Digital WPI. It has been accepted for inclusion in MS055-02-0006 Statitrol Products by an authorized administrator of Digital WPI. For more information, please contact digitalwpi@wpi.edu.

NEUTRALIZE STATIC ELECTRICITY!



NEW!

*PROFESSIONAL
STATITROL PL-300*

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

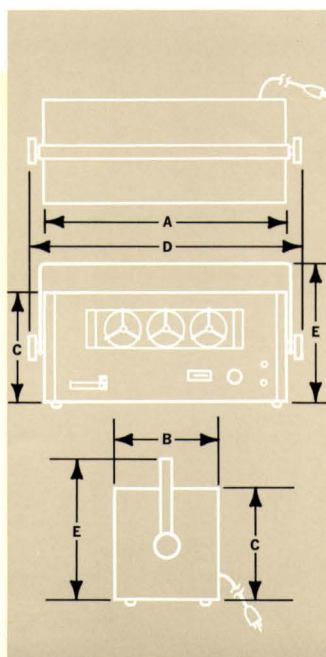
LENGTH.....A....20 inches
WIDTH.....B....8½ inches
HEIGHT.....C....9 inches
OVERALL HANDLE....D....22½ inches
OVER HANDLE.....E....11¾ inches

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.



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.

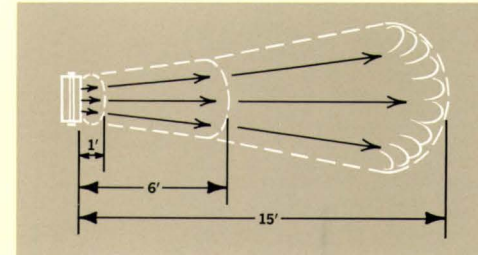
TYPICAL EXAMPLE

Photographic Darkroom

NORMAL static charges in handling sheet films range from zero to 10 Kilovolt.

Dust will attract to film at only one Kilovolt!

Dust, even in the "clean" darkroom is a very serious problem when statics reach 5 Kilovolt—and this is normal to most operations except where high humidity is maintained.



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

PL-300	COLUMN I	COLUMN II	COLUMN III
	Less than 2 seconds	Less than 10 seconds	Less than 30 seconds
THROW*	1 FOOT	6 FEET	15 FEET
SPREAD**	HORIZONTAL	4 FEET	6 FEET
	VERTICAL	2 FEET	3 FEET
NEUTRALIZING RATE	2.5 KVF/S	.5 KVF/S	.166 KVF/S

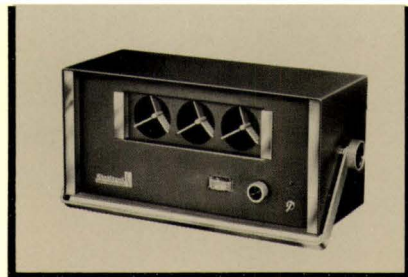
*Throw is the distance from the PL-300 in the center of the airstream.
**Spread is the width and depth of the airstream at the maximum throw.

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



PL-300

F.O.B. POINT OF ORIGIN

\$265⁰⁰

ACCESSORIES

WALL MOUNTING BRACKETS

Allows a convenient method of controlling air motion and directs the airstream to the more critical work areas without sacrificing bench or table space

PER PAIR..... **\$1000**

AIR FILTER

1/2" thick wire mesh filter media adapts directly to fan inlet

EACH..... **\$300**

LIGHT SHIELD

For those critical applications such as unexposed film within two feet of the PL-300. Adapts easily to knob shafts with adjustment identical to universal handle

EACH..... **\$1700**

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

Approx 1968