

Guardian CR2000 Overhead Ionising Air Blower

Produces an airflow that is rich in positive and negative air ions and will quickly neutralise the charge on objects with a high static electricity charge. The volume of airflow is controlled by variable speed fans, which allow for a wide range of airflow settings; this can be locked into high speed using the key switch to provide assurance of the maximum possible performance. The system contains current limiting resistors, which enhance ionisation stability and provides for safety. It also ensures cleanroom compatibility using specially chosen components, which minimise the risk of particulation.



Features

- Rapidly neutralises static charges
- Covers an extended area with ionised air
- Inherently balanced ion output
- Built-in ion emitter point cleaner
- Ion output and balance are monitored
- Key switch for performance in critical applications
- Fast, easy maintenance
- Enclose: Aluminium
- Finish: Gloss Polyester Enamel
- Mounting Hardware: Stainless Steel

Power Connections

- Input: IEC 320
- Output: IEC 320, allows power connection (daisy chain) of up to 10 units in series from 1 power source.

Audible Noise

Measured 2 ft. from unit:

- Fan Speed Low: 48dB(A)
- Fan Speed High: 58dB(A)

Ozone Production

Unit run in closed, 1000 ft³ chamber:

- Ozone equilibrium concentration due to unit: 0.02ppm

Maintenance

- Designed to have minimal maintenance. The only regular maintenance is to clean the emitter point.

Benefits

- Protects even the most sensitive electronic components
- Verifies that the unit is ionising and balanced
- Helps to maintain the desired ionisation performance level
- Supports Class 10 compatibility

Applications

- Designed specifically for use by the disk drive industry in critical cleanroom applications.

Mount

- Stainless Steel hardware; hanger brackets
- S-hooks provided for chain mount
- L-hooks provided for rigid mount

Off / On

- Three-position key switch with OFF / ADJUSTABLE / HIGH positions. The key can be removed at any position.

Indicators

- Bi-colour LED
- Green ION OUTPUT and ION BALANCE light indicates normal conditions
- Red light indicates maintenance condition

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Discharge Time*	3 seconds, 1000 – 100V 5 seconds, 1000 – 10V
Offset Voltage*	0 ± 5V; ± 3V typical
Operating Temperature	32°F (0°C) – 122°F (50°C)
Indicator Test	Automatic

*Tested in accordance with ESD STM3.1-2000, Ionisation. Unit positioned in 100 FPM unidirectional airflow, 18 inches above test surface. Charge Plate Monitor (CPM) plate 2" above test surface.

3-Fan Unit

Part No.	Line Voltage	Max. Current Draw
4008630	120 VAC, 50/60Hz	0.3 Amp
4008705	230 VAC, 50/60Hz	0.15 Amp
4008704	100 VAC, 50/60Hz	0.3 Amp

Air Volume Output	Fan Speed Low: 135CFM (60l/s) Fan Speed High: 270CFM (120l/s)
Air Velocity (at 46cm)	Fan Speed Low: 200FPM (1.0 m/s) Fan Speed High: 400FPM (2.0 m/s)
Area Coverage	2 x 4 ft
Weight	15lbs (6.8kg)
Dimensions (W x H x D)	42¾ x 4 x 6¾ in. 109 x 10 x 17cm

2-Fan Unit

Part No.	Line Voltage	Max. Current Draw
4008729	120 VAC, 50/60Hz	0.2 Amp
4008730	230 VAC, 50/60Hz	0.1 Amp
4008731	100 VAC, 50/60Hz	0.3 Amp

Air Volume Output	Fan Speed Low: 90CFM (40l/s) Fan Speed High: 180CFM (80l/s)
Air Velocity (at 46cm)	Fan Speed Low: 150FPM (0.75 m/s) Fan Speed High: 300FPM (1.5 m/s)
Area Coverage	2 x 3 ft
Weight	12lbs (5.5kg)
Dimensions (W x H x D)	31¾ x 4 x 6¾ in. 81 x 10 x 17cm



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