SIMCO Industrial Static Control

An Illinois Tool Works Company

The Blue Bar - High Output Static Eliminator

The R50 and R51Blue Bars are high efficiency, shockless static bars for use on high-speed webs and in hard-to-reach applications. The patented Blue Bars are designed for easy cleaning and offer a mounting channel with full length adjustment. The Blue Bars neutralize static charges on webs at speeds to 2,500 fpm. The R50's cable is permanently attached to the static bar while the R51 cable is detachable.

The optional M165 (for use with the R51), M167 and M267 (for use with the R50) Power Supplies include a monitoring system to detect arcing conditions and short circuit on the ionizing points and on the cable. Indicator lamps verify input and output voltage status as well as arc detection. Integrated relay contacts allow for remote monitoring of these features.

For the maximum in static neutralizing power on high speed webs and hard-to-reach applications, choose the Blue Bar with the M165, M167 or M267 monitoring system.

Features	*Benefits*
Resistor-coupled	Shockless operation which creates tremendous ionization output for excellent performance
Patented insulated ground conductors	Prevent ions from floating to ground and allows neutralization at greater distances
Self adjusting	No calibration required
Passive neutralization	Provides "fail-safe"operation capability when power supply is turned off
Shielded cable	Limits EMI/RFI output, eliminating the effects on external controls and circuitry
Open channel design and chemical resistant	Easy to clean

Options

- R51 style includes a removable high voltage cable for easy installation and removal of bar for cleaning
- L50 air tube available to increase ionizing distance and improve particle blow-off
- M165, M167 and M267 power supplies with arc detection, short circuit monitoring and relay contacts for remote monitoring

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ISO 9001 CERTIFIED

P/N 5200776 Rev. C 7/2002 Printed in USA

The R50 and R51 Blue Bar & Power Supplies

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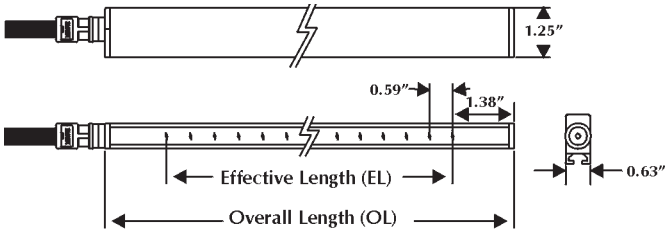
R50 Blue Bar with Fixed Cable



EL - 154.1″ Max.
OL - 156.9″ Max.

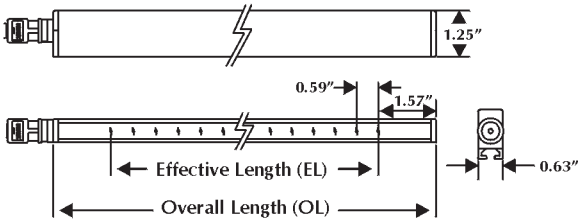
Bar Profile: .63" x 1.25" (16mm x 32mm)
Effective Length: 5.9" to 154.1" (150mm to 3915mm)
Overall Length: 8.7" to 156.9" (220mm to 3985mm)
Operating Voltage: 7kV AC
Mounting: Nylon bolts and metal brackets provided
Ambient Temperature: 32°F to 176°F (0°C to 80°C)
Connection and High Voltage Cable: Fixed cable at the bar; 2.5 meters (8.2') standard length , 5 and 7.5 meters optional (16.4' and 24.6' respectively)

M167 and M267 Power Supplies

Input Power Rating M167: 120V AC, 20VA, 60Hz.
Input Power Rating M267: 230V AC, 20VA, 60Hz.
Output Voltage: 7,000 volts AC
Output Current: 3.0mA maximum; 5.0mA short-circuit
Overall Dimensions: 8 1/2"L x 6 1/16"W x 4 1/2"H
Monitoring System: Lighted on/off switch, green output voltage indicator lamp and red arc detection indicator lamp. Remote signals available for monitoring high voltage output and arc detection functions.

The R50 can also be used with the "D" Power Supply, which does not have a monitoring system.

R51 Blue Bar with Detachable Cable



EL- 154.1″ Max
OL - 157.3″ Max

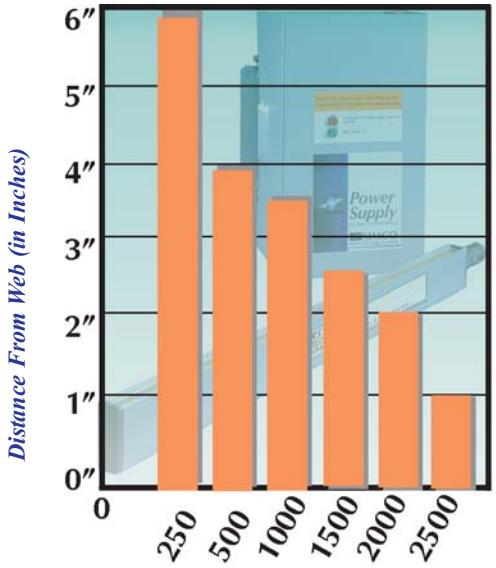
Bar Profile: .63" x 1.25" (16mm x 32mm)
Effective Length: 5.9" to 154.1" (150mm to 3915mm)
Overall Length: 9.1" to 157.3" (230mm to 3995mm)
Operating Voltage: 5kV AC
Mounting: Nylon bolts and metal brackets provided
Ambient Temperature: 32°F to 176°F (0°C to 80°C)
Connection and High Voltage Cable: Detachable cable at the bar (cable must be ordered separately); 2.5 meters (8.2') standard length, 5 and 7.5 meters optional (16.4' and 24.6' respectively)

M165 Power Supply

Input Power Rating M165: 120V AC, 20VA, 60Hz.
Output Voltage: 5,000 volts AC
Output Current: 3.0mA maximum; 5.0mA short-circuit
Overall Dimensions: 8 1/2"L x 6 1/16"W x 4 1/2"H
Monitoring System: Lighted on/off switch, green output voltage indicator lamp and red arc detection indicator lamp. Remote signals available for monitoring high voltage output and arc detection functions.

The R51 can also be used with the "D" Power Supply, which does not have a monitoring system.

Maximum Installation Distance from Web



Web Speed - Feet Per Minute (FPM), <500V Residual Charge

For varying web speeds, 2" is the optimal bar mounting distance from web.

Power Supply Loading Capacity