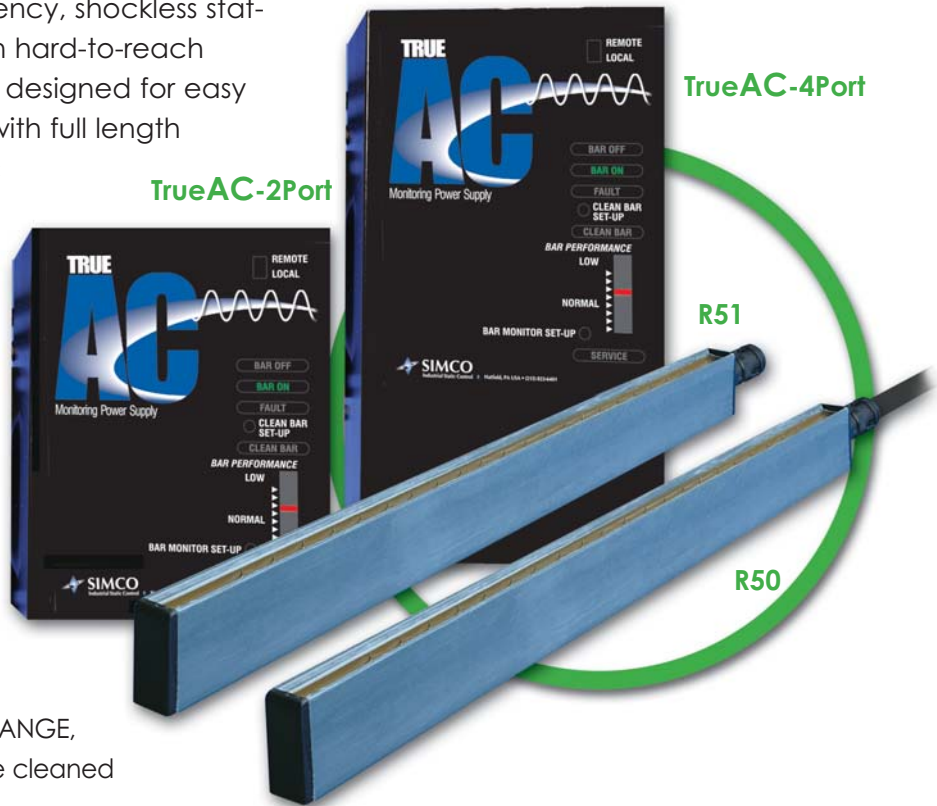


## R50 and R51 Blue Bars & True AC Monitoring Power Supply

The R50 and R51 Blue 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 **TrueAC** Power Supply (patent pending) is the only self-monitoring AC power supply available for static control equipment. The unit is designed to operate with the Blue Bars. When the system is activated the BAR ON indicator is illuminated to let you know that the system is ready to go. During operation the **TrueAC** power supply monitors the static bar while also displaying the BAR PERFORMANCE RANGE, and indicates when the static bar needs to be cleaned with the CLEAN BAR indicator light.



### R50 and R51 Features

Resistor-coupled

Patented insulated

Self adjusting

Passive neutralization

Shielded cable

Open channel design and chemical resistant

### Benefits

Shockless operation which creates tremendous ionization output for excellent performance

Reduces electric field strength between emitters and internal ground reference resulting in higher neutralization efficiency at greater distances

No calibration required

Provides "fail-safe" operation capability when power supply is turned off

Limits EMI/RFI output, eliminating the effects on external controls and circuitry

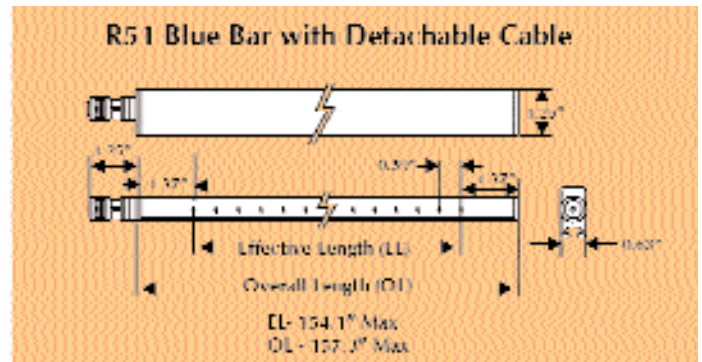
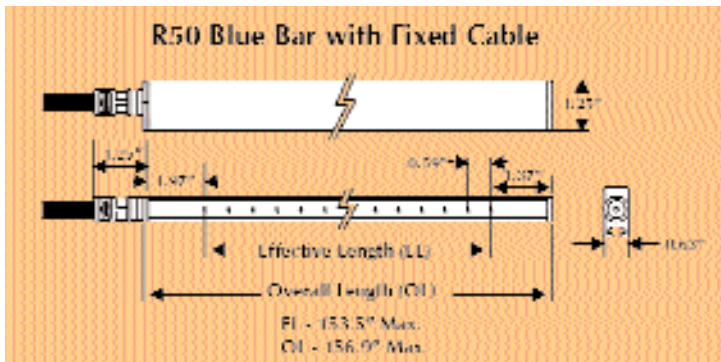
Easy to clean

### True AC Performance Monitoring

- Bar ON indicator
- Bar OFF indicator
- Remote display capabilities for CLEAN BAR, FAULT\* and SERVICE\*
- CLEAN BAR indicator, factory set at 40% of maximum bar efficiency or can be set by user
- FAULT indicator
- BAR PERFORMANCE RANGE indicator
- Arc Detection circuit

\* Dry contacts available via remote connector included with the unit.

# The R50 and R51 Blue Bar & Power Supplies



## R50 Blue Bar

- **Bar Profile:** .63" x 1.25" (16mm x 32mm)
- **Effective Length:** 5.3" to 153.5" (135mm to 3900mm)
- **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; 7.0' (2.1 meters) standard length, optional lengths available

## R51 Blue Bar

- **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); 7.0' (2.1meters) standard length, optional lengths available

## True AC Specifications

### Two Connector (Two Bars)

Part Number	Power Requirements	Output Voltage	Dimensions (L x W x H)
4010442	120 VAC, 20 VA, 50/60 Hz	7 kVAC	6.4 X 3.8 X 4.5
4010443	230 VAC, 20 VA, 50/60 Hz	7 kVAC	6.4 X 3.8 X 4.5
4010440	120 VAC, 20 VA, 50/60 Hz	5 kVAC	6.4 X 3.8 X 4.5
4010441	230 VAC, 20 VA, 50/60 Hz	5 kVAC	6.4 X 3.8 X 4.5

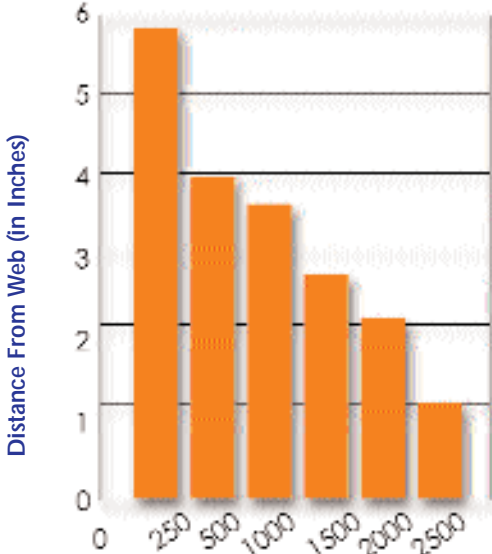
### Four Connector (Four Bars)

4010883	120 VAC, 20 VA, 50/60 Hz	5 kVAC	8.6 X 4.9 X 4.5
4010884	230 VAC, 20 VA, 50/60 Hz	5 kVAC	8.6 X 4.9 X 4.5
4010604	120 VAC, 20 VA, 50/60 Hz	7 kVAC	8.6 X 4.9 X 4.5
4010605	230 VAC, 20 VA, 50/60 Hz	7 kVAC	8.6 X 4.9 X 4.5

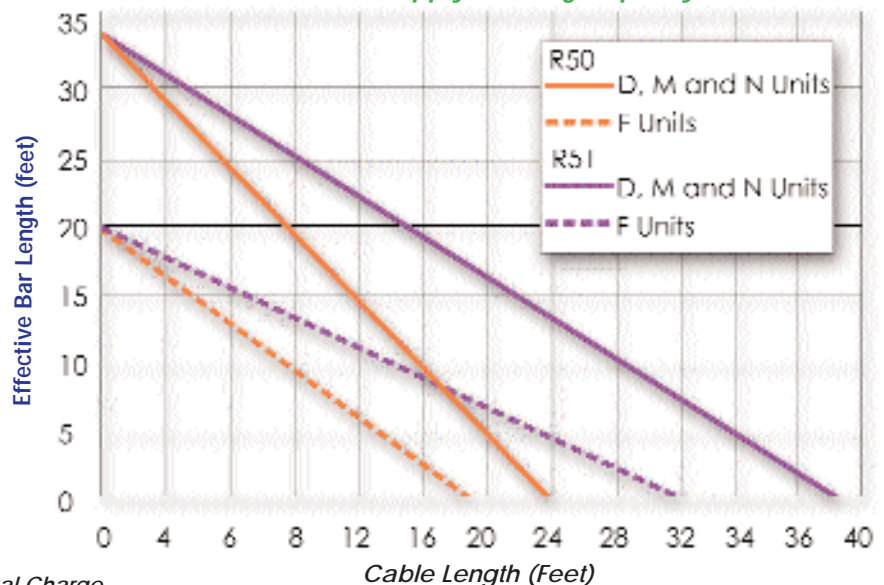
## Options

- 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

## Maximum Installation Distance from Web



## Power Supply Loading Capacity



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

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