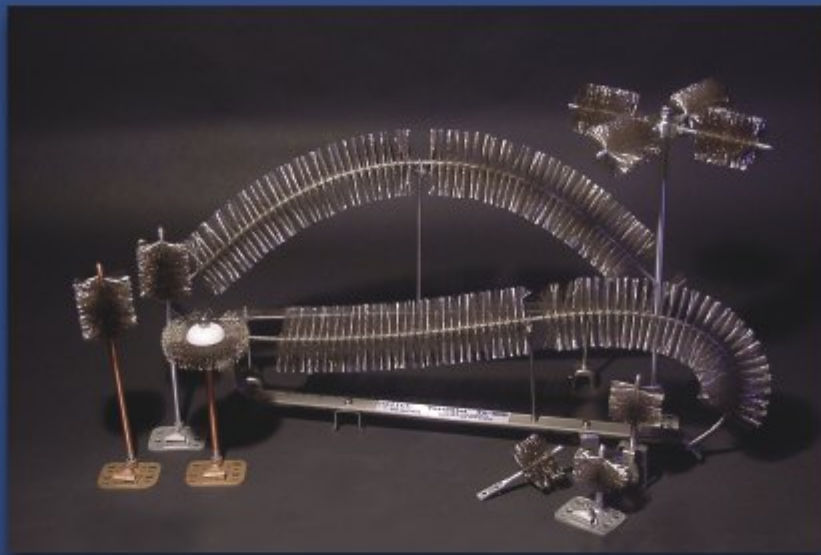
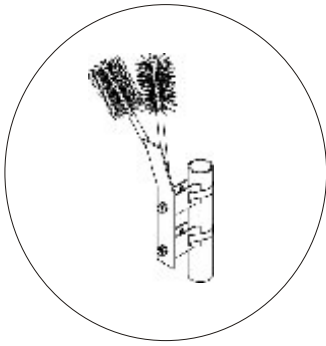


# TerraStat<sup>®</sup>

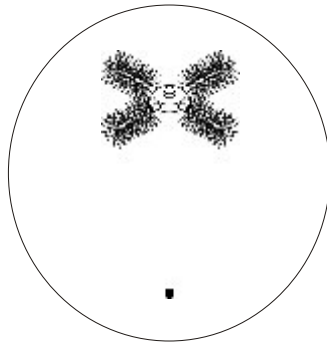


Point Discharge Terminals

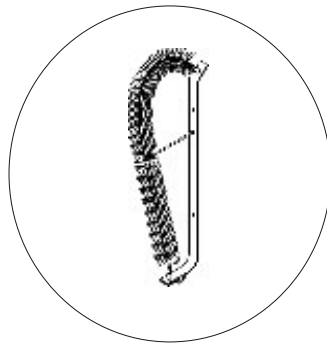
TerraStat



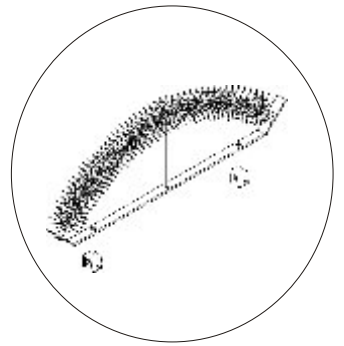
**TS-120**



**TS-400**



**TS-500**



**TS-510**

## Point Discharge Terminals

ALLTEC Corporation offers a complete line of Lightning Dissipation Terminals that utilize the Point Discharge Principle to mitigate direct lightning strikes. TerraStat products are designed to protect anything from the tallest broadcast towers to the smallest remote scada system, and almost any type of structure or facility in between.

TerraStat Terminals are the latest design in dissipation products. TerraStat Terminals help to prevent direct lightning by dissipating the static electrical charge into the atmosphere through the process of ionization. This ionization process will reduce the formation of streamers, which complete the path of the lightning strike, thereby reducing the likelihood of attracting a direct lightning strike to your structure.

As a storm cloud builds and travels overhead, it will concentrate an electrical charge on the earth, that is opposite in charge to the lower portion of the cloud itself. As this charge builds, it will accumulate at the top of the structure until enough charge exists to form a streamer, which attracts and completes the lightning strike. With the installation of TerraStat Point Discharge Terminals, the small electrodes will break down into corona and ionize this charge into the atmosphere at a relatively low potential, making it less likely to form a streamer. Since the object on the ground that produces the best streamer is the one most likely to be struck, the TerraStat Terminals, and the structure on which they are installed, are much less likely to sustain a direct lightning strike.

Many of our TerraStat Dissipation Terminals are designed to be included in a UL 96A Master Label lightning protection system. We offer a standard Vertical Dissipation Terminal (TS-100) that is used for most general building applications. For structures or equipment which has a high susceptibility to lightning strikes, we offer our TS-400 Series that has four times the protection of our standard vertical dissipation terminals.

ALLTEC Corporation also manufactures a complete line of TerraStat Point Discharge Terminals designed specifically for broadcast and communications towers (TS-500 & TS-510), high mast lighting and other high-risk structures. Whatever your requirements, we have a product to fit the application. And for those special applications, we have the capabilities to design and manufacture a custom system to fit your needs.

**TS-50L**  
**TS-50T**  
**TS-50AD**

### Small Object Protection

Satellite Dishes, Communication Antennas, Remote Scada Syatems, Microwave Dishes

**TS-100**

### Standard Risk Protection

Office Buildings, Shelters, Industrial Facilities, Homes, Warehouses

**TS-120**

### Medium Risk Protection

Protection for Side Mounted Tower Equipment such as Antennaes, Dishes and Sensors

**TS-400**

### Medium Risk Protection

Monopoles, High Mast Lighting, Externally Mounted Cameras

**TS-500**

Vertically Mounted

### High Risk Protection

Communication Towers, Bridges, Petro-Chemical Storage Facilities, Stacks

**TS-510**

Horizontally Mounted

### High Risk Protection

Communication Towers, Bridges, Petro-Chemical Storage Facilities, Stacks

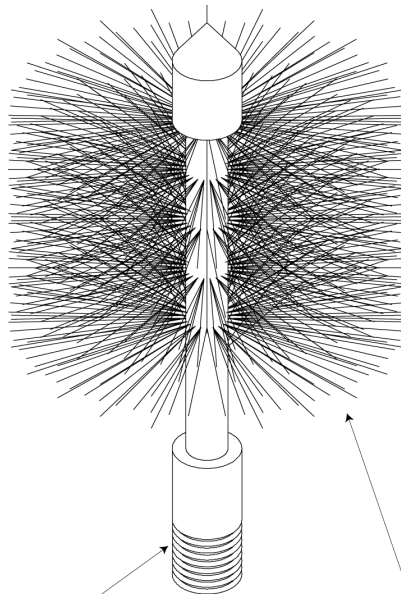


# TerraStat<sup>®</sup>

## TS-50

The TerraStat TS-50 Series Dissipator is designed to offer cost effective point discharge dissipation to small structures where only a low level of dissipation is required. For example, traffic control boxes, water well pumps, metering equipment boxes, satellite dishes, etc. The TS-50 can be threaded into a base plate or attached directly to metal objects with screws or bolts.

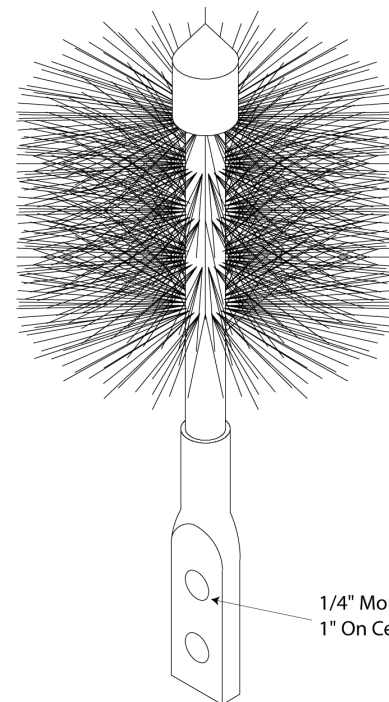
**TS-50-T**



Standard 1/2" - 13 Threads  
(Other thread sizes available upon request.)

2.0" Spiral Wound Dissipation Brush with  
.010 Diameter x 3.75" Length Dissipation Wire  
(Dissipation Assembly Constructed From  
High Grade 316 SS)

**TS-50-L**



1/4" Mounting Holes  
1" On Center



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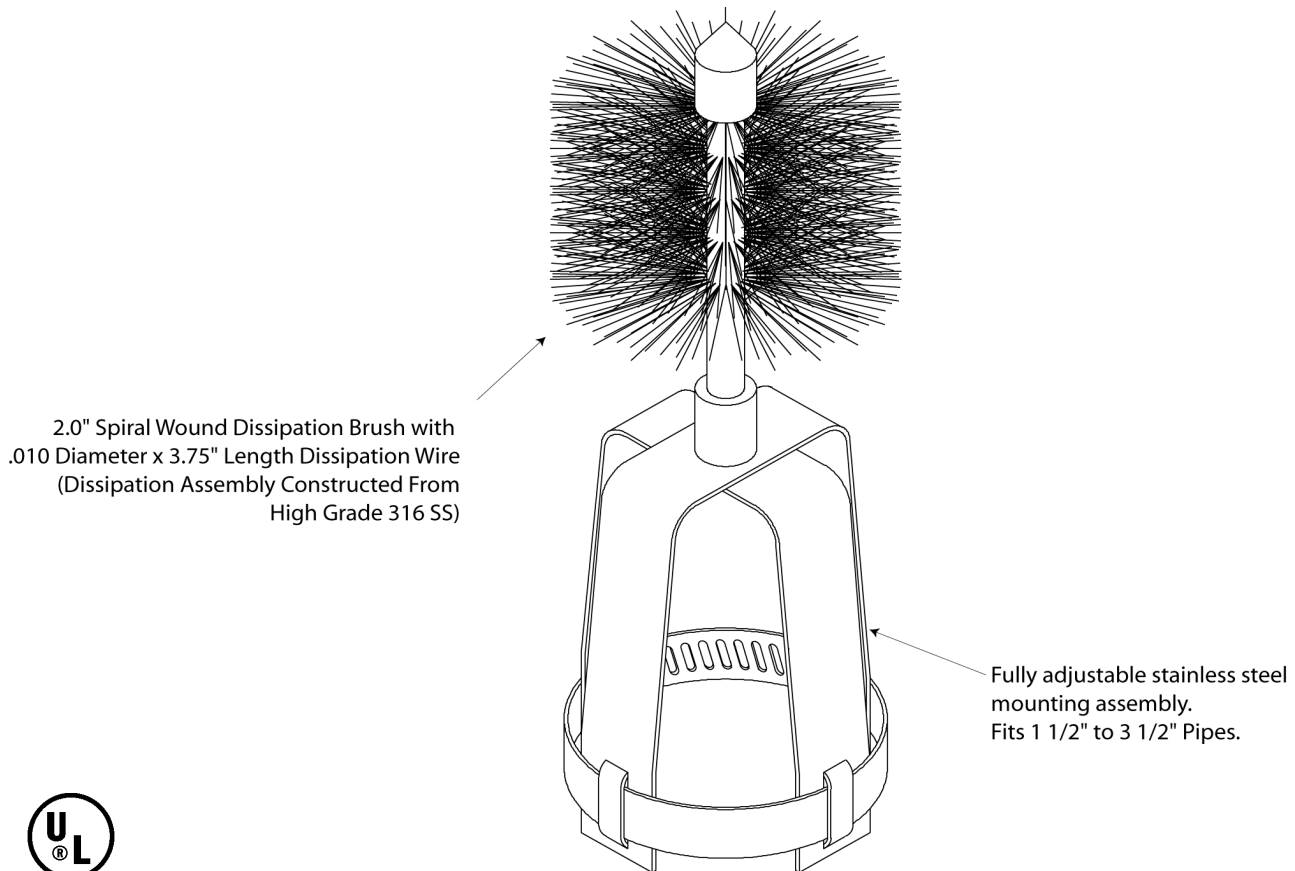
**TS-50-AD**

# **TerraStat®**

## **TS-50-AD**

### **Antenna Dissipator**

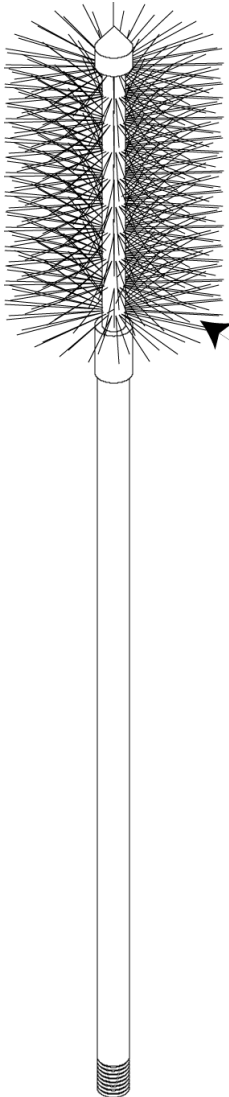
The TerraStat TS-50-AD Dissipator is designed to provide protection to Antennae, Pipe Mounts, and other similar structures. The TS-50-AD Antenna Dissipator is constructed completely of Stainless Steel and can be attached to Galvanized Steel, Bronze, Copper, or Aluminum Pipes or Antenna Caps. The TS-50-AD is fully adjustable and will fit any size pipe or antenna cap from 1-1/2" up to 3-1/2" in diameter. The TS-50-AD Antenna Dissipator is mounted directly above and aligned with the antenna so it will not interfere with the signal.



NOTE: The TS-50-AD Antenna Dissipator is designed to be attached only to grounded objects. It should be mounted directly to antenna mount support pipes or only to DC Grounded antennae with grounded metal caps. DO NOT attach the TS-50-AD directly to fiberglass antennae.

# TerraStat<sup>®</sup>

## TS-100



Designed to replace the traditional air terminal in conventional lightning protection systems. The TS-100 converts a standard lightning rod system into a Lightning Dissipation System which mitigates the chances of a direct lightning strike to any building or structure on which it is installed. The TS-100 is available in various materials and sizes to be compatible with all standard lightning protection system components.

4.5" Spiral Wound Dissipation Brush with .010 Diameter x 3.75" Length Dissipation Wire  
(Dissipation Assembly Constructed From High Grade 316 SS)

### ***TS-100 Numbering System***

To order, simply follow the three steps below to specify the type and size of the unit. The example below, shows how to order the TS-100.

**TS-100-C**  
(1) Type

**12**  
(2) Length

**12**  
(3) Diameter

- |              |                      |              |                     |
|--------------|----------------------|--------------|---------------------|
| 1. Type:     | C = Copper           | A = Aluminum | S = Stainless Steel |
| 2. Length:   | Measured in inches   |              |                     |
| 3. Diameter: | 12 = 1/2"; 58 = 5/8" |              |                     |

### ***Standard Models***

TS-100-C-12-12  
TS-100-C-18-12  
TS-100-C-24-12

TS-100-A-12-12  
TS-100-A-18-12  
TS-100-A-24-12  
TS-100-A-12-58  
TS-100-A-18-58  
TS-100-A-24-58

TS-100-S-18-58  
TS-100-S-24-58

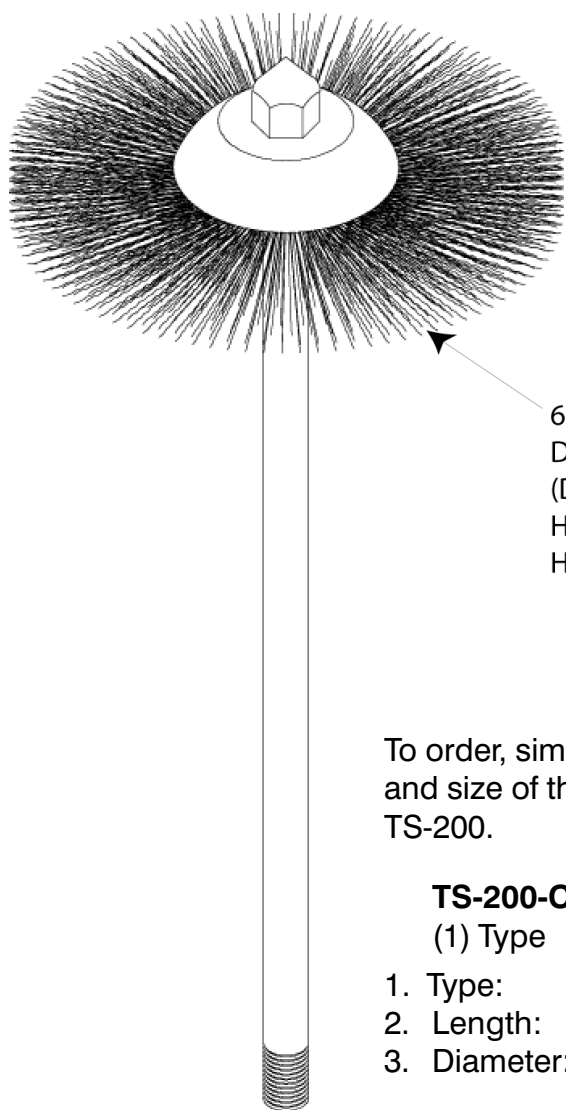
Other sizes available upon request.  
ALL threads are machined to 1/2" standard.



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# TerraStat<sup>®</sup>

## TS-200



Designed to be used in the same applications and perform the same lightning prevention functions as the TS-100 but offers a rooftop safety feature. Different from standard pointed air terminals, the TS-200 is designed with a flat, blunt surface area on the top to help prevent accidental injury to roof-top workers.

6" Horizontal Dissipation Brush with .010 Diameter x 2" Length Dissipation Wire (Dissipation Assembly Constructed From High Grade 316 SS & Type 110 Copper Center Hub Assembly)

### ***TS-200 Numbering System***

To order, simply follow the three steps below to specify the type and size of the unit. The example below, shows how to order the TS-200.

<b>TS-200-C</b>	<b>12</b>	<b>12</b>
(1) Type	(2) Length	(3) Diameter
1. Type: C = Copper S = Stainless Steel		
2. Length: Measured in inches		
3. Diameter: 12 = 1/2"; 58 = 5/8"		

### ***Standard Models***

TS-200-C-12-12	TS-200-S-18-58
TS-200-C-18-12	TS-200-S-24-58
TS-200-C-24-12	

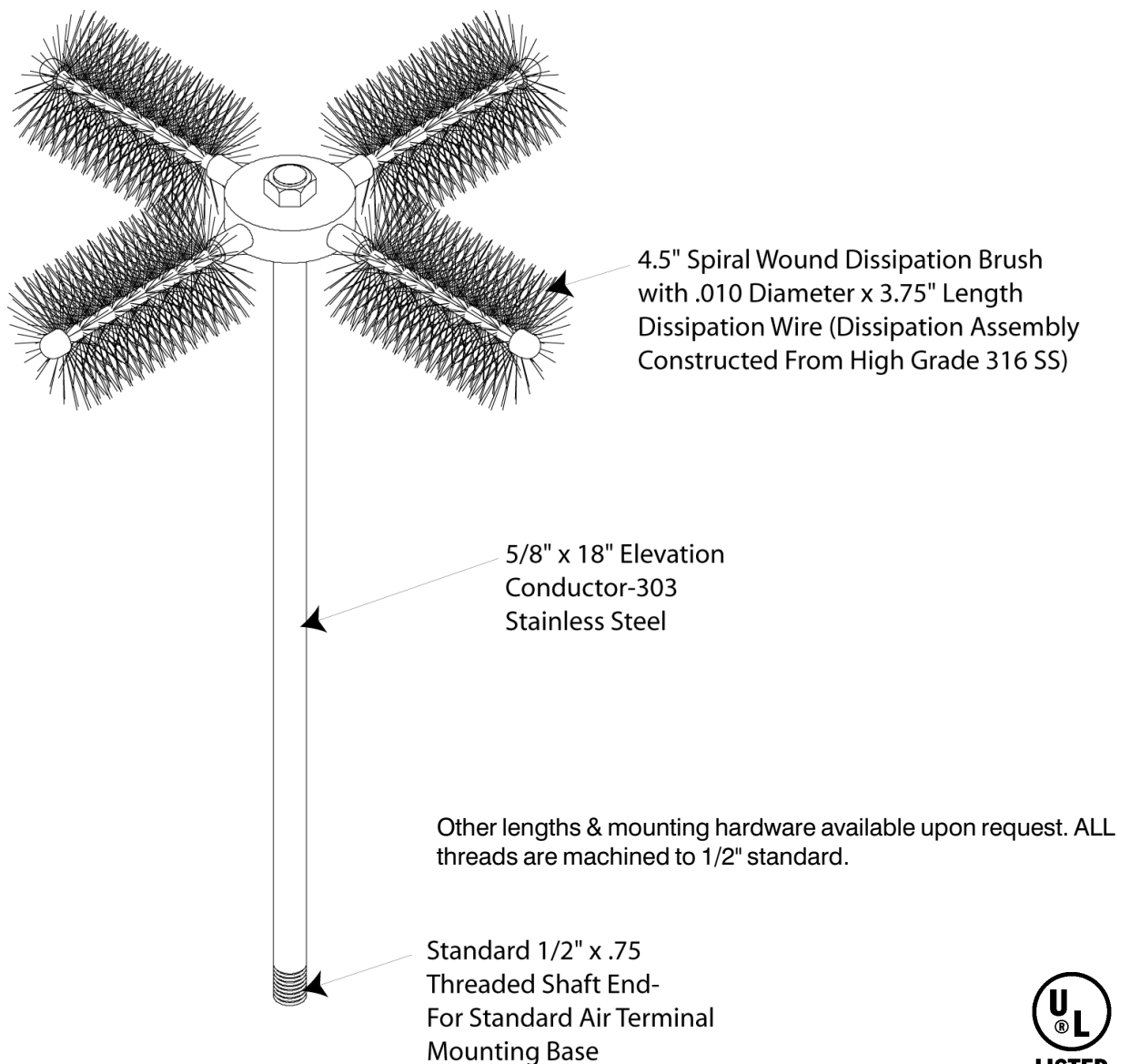
Other sizes available upon request.  
ALL threads are machined to 1/2" standard.



# **TerraStat<sup>®</sup>**

## **TS-400**

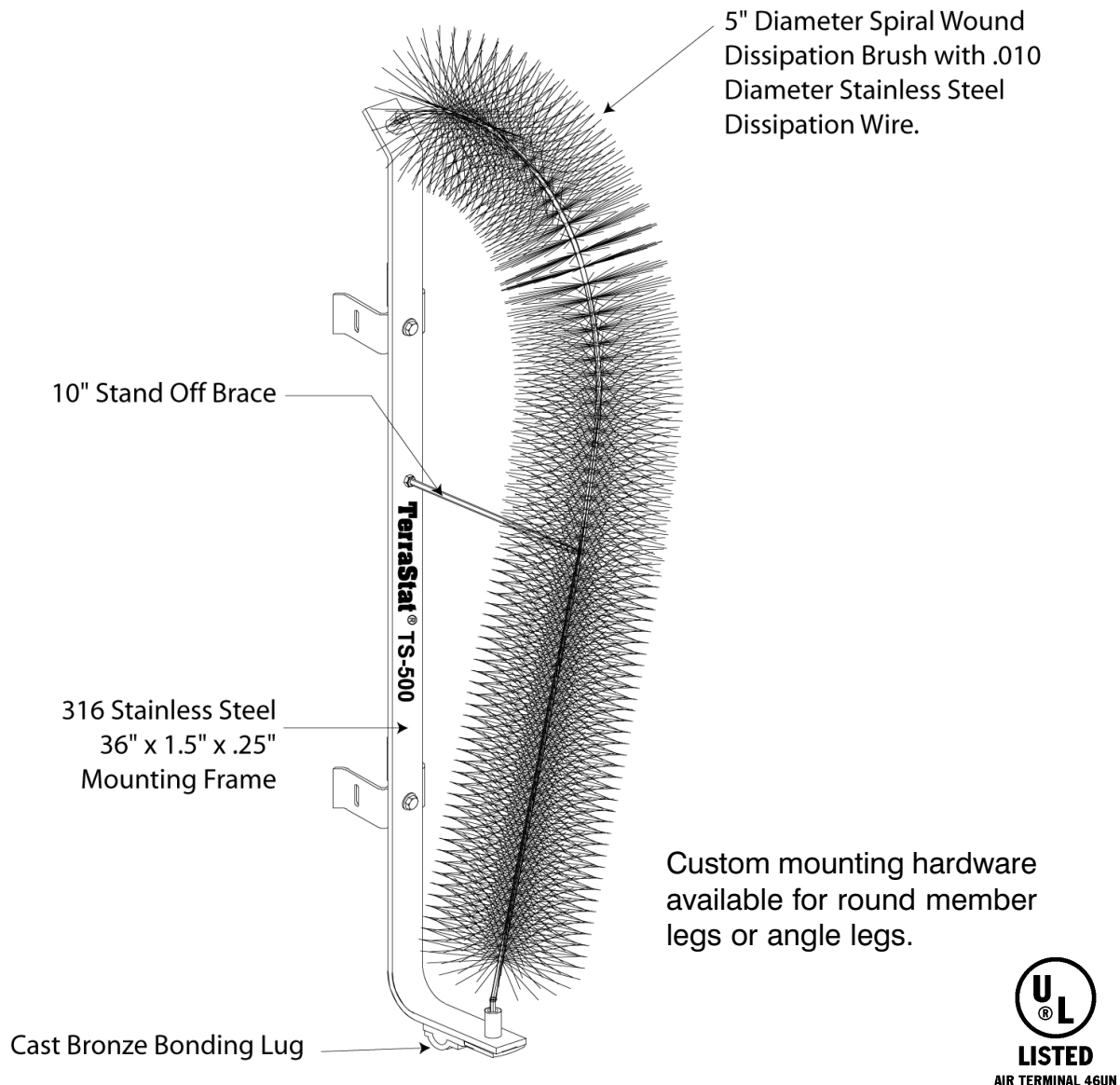
Using the same features as the TS-100, the TS-400 provides a higher level of dissipation. It is constructed completely of Stainless Steel and utilizes four dissipation brushes attached to a single elevation conductor for higher dissipation on a single mount. The TS-400 is ideally suited for protecting high mast light poles, security cameras, scada antenna systems, and smaller monopoles and towers used for communications.



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# TerraStat® TS-500

ALLTEC Corporation's latest development in dissipation products utilizes the Point Discharge Principal for the mitigation of direct lightning strikes to communications and broadcast towers and other tall structures. The TS-500 is constructed completely of 300 series stainless steel for durability. The lightweight, low wind load design of the TS-500 facilitates a simple installation without requiring a large amount of valuable real estate for mounting. The TS-500 can be installed on any type of tower or monopole.

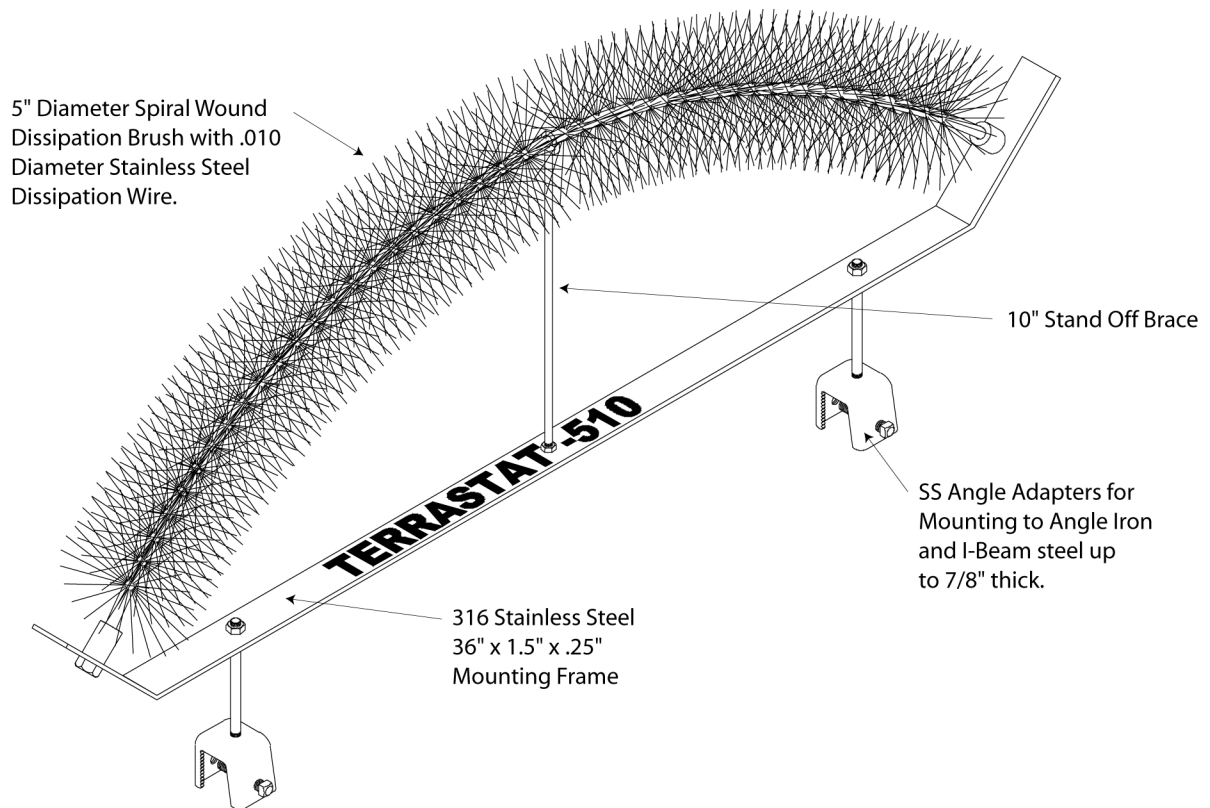




# **TerraStat<sup>®</sup>**

## **TS-510**

The TerraStat TS-510 is the horizontal version of the TerraStat TS-500 and is designed to be mounted horizontally across the tops of large face section towers, on platforms and antenna arms. The TS-510 can also be used to protect water tanks, storage tanks, commercial cranes and other fall structures that have large areas of horizontal exposed steel.



Custom mounting hardware available for round member legs or angle legs.