How does Evo Franklin work?

Lightning initiates from an electrical storm which usually generates within a cumulonimbus cloud. When electrical energy has built within a cloud, a "leader" of energy leaves it and will try to attach itself to a point on the ground which contains the most particles of energy in reverse polarity. Some 90% of such "leaders" contain negative charges.

It has always been the endeavor of lightning protection specialists such as the Evo Franklin to do so effectively so that large areas of protection can therefore be provided from a single lightning terminal.

**Product Specification**

<table>
<thead>
<tr>
<th>Name</th>
<th>Evo Franklin</th>
<th>Name</th>
<th>Evo Franklin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model/Type</td>
<td>EF-60 (Home)</td>
<td>Model/Type</td>
<td>EF-150</td>
</tr>
<tr>
<td>Color Available</td>
<td>Silver Blue</td>
<td>Color Available</td>
<td>Silver Blue</td>
</tr>
<tr>
<td>Rate Radius</td>
<td>60 m</td>
<td>Rate Radius</td>
<td>150 m</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 kg</td>
<td>Weight</td>
<td>3.5 kg</td>
</tr>
<tr>
<td>Total Length</td>
<td>30 cm</td>
<td>Total Length</td>
<td>30 cm</td>
</tr>
<tr>
<td>Diameter</td>
<td>2 inches</td>
<td>Diameter</td>
<td>6 inches</td>
</tr>
<tr>
<td>Resistance</td>
<td>0.2 - 2.5 ohm</td>
<td>Resistance</td>
<td>0.2 - 2.5 ohm</td>
</tr>
</tbody>
</table>

**Rod Receiver**

The rod is made from high metal temperature, this rod has capacity to receive lightning flash.

**Electrodes**

This electrode serves as a main role in collecting deposits and energy reserve as an energy source for awakening Early Streamer Emission (ESE) system.

**Compact Ion Generator**

Collect energy from electric field, consist of energy capacitor unit and ion awakening, sensing and protection ware.

**Monopole Installation**

**EF Earthing System**

In electricity supply systems, an earthing system or grounding system is circuitry which connects parts of the electric circuit to the ground, thus defining the electric potential of the conductors relative to the Earth's conductive surface. The choice of earthing system can affect the safety and electromagnetic compatibility of the power supply. In particular, it affects the magnitude and distribution of short circuit currents through the system, and the effects it creates on equipment and people in the proximity of the circuit. A fault within an electrical device connects a live supply conductor to an exposed conductive surface, anywhere touching it while electrically connected to the earth will complete a circuit back to the earthed supply conductor and receive an electric shock.

**Research and Development**

The company has an ongoing commitment to Research and development. Evo Franklin personnel and their associates have been involved in a number of field trials throughout lightning prone regions of the world. This experience has extended throughout such countries as Thailand, Indonesia, USA and Africa.

**Evo Franklin Lightning Protection**

**EF-60 | EF-150**

<table>
<thead>
<tr>
<th><strong>Protection Level High</strong></th>
<th>Protection Level Standard</th>
<th>Protection Level Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>45</td>
<td>110</td>
</tr>
<tr>
<td>20</td>
<td>60</td>
<td>130</td>
</tr>
<tr>
<td>25</td>
<td>70</td>
<td>140</td>
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<tr>
<td>30</td>
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<td>150</td>
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<tr>
<td>35</td>
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<td>170</td>
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<tr>
<td>45</td>
<td>110</td>
<td>180</td>
</tr>
<tr>
<td>50</td>
<td>120</td>
<td>190</td>
</tr>
</tbody>
</table>
**Early Streamer Emission (ESE)**

**EF-85**

**Product Specification**

- **Name**: Evo Franklin
- **Model / Type**: EF-85
- **Color Available**: Silver Blue
- **Rate Radius**: 85 m
- **Weight**: 3.3 kg
- **Total Length**: 30 cm
- **Outer Diameter**: 6 inches
- **Resistance Available**: 0.2 - 2.5 ohm

**EXCESS EVO FRANKLIN™ LIGHTNING PROTECTION SYSTEM**

Evo Franklin™ lightning rod is a work-based electrostatic ESE specifically designed for high intensity lightning strikes and tropical regions like countries in Asia. There are 10 excess Lightning rod Evo Franklin™:

- More modern design, designed by scientists lightning Indonesia and Designer of Pennsylvania
- Using the latest technology
- Free maintenance, No Power Supply or Solar Cells, No Radio Active
- Discharge Current 300 kA
- More convenience in installation implement
- Using the best materials
- Affordable Price
- Latest technology, specifically designed for high intensity lightning strikes and tropical regions like countries in Asia
- Reliable and Qualified Producer, supported by the High Voltage Laboratory Pennsylvania Lightning Lab
- 3 (three) years product warranty

**Futuristic Technology**

- Modern Design
- No Power Supply or Solar Cells
- No Radioactive
- Discharge Current 300 kA
- Protection Radius 85m
- 3 (three) Years Product Warranty