# CHEMICAL GROUND ELECTRODE, VERTICAL/UP, 8' ELECTRODE, 4' PIGTAIL, 4/0 STRANDED

## CATALOG NUMBER

**ECRV082Q4UB**

Chemical ground electrodes provide a low impedance ground in locations of high soil resistivity and dry soil conditions. Used in conjunction with a bentonite backfill and nVent ERICO's unique GEM material, the nVent ERICO chemical ground rod electrode systems provide a method to improve soil resistivity directly surrounding the electrode, and can replace multiple conventional ground rods. It maintains a low ground resistance, maintenance-free installation that dissipates lightning energy and other dangerous electrical fault currents, even in sandy or rocky soil conditions.

The chemical ground electrode is useful for providing an effective earth in poor soil conditions where space for electrodes is limited. Applications include telecommunications, power generation and distribution, commercial and industrial, manufacturing, transportation (rail and aviation), lightning protection, recreational facilities, and defense. The nVent ERICO chemical ground rod electrode systems are most effective when installed as part of a total system that includes high conductivity backfill materials, access/inspection wells, and permanent, reliable nVent ERICO Cadweld connections. They may be installed either vertically or horizontally.

## CERTIFICATIONS

## FEATURES

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| Contains natural electrolytic salts, which permeate into the surrounding soil to condition the soil and increase its conductivity |
| Easy connection to ground electrode conductor using the factory provided pigtail (up or down orientation) |
| Provides decades of reliable services due to rugged construction and high-quality metals with a 30-year minimum service life |
| 2-1/8" (54 mm) outside diameter copper pipe with 0.083" (2.1 mm) wall |
| Available in continuous sections up to 10' (3.05 m) in length; longer rods can be field assembled using 5' (1.52 m) or 10' (3.05 m) extensions |
| Optional factory-attached radial strips are available to reduce impedance to high-frequency lightning energy and to control the direction of the dissipation |
| L-shaped rods are available for horizontal installation applications where it is impractical to auger deep vertical holes |
| Access segment on horizontal (L-shaped) chemical ground electrodes is 32" (813 mm) deep |

## PRODUCT ATTRIBUTES

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| Material: Copper |
| Installation: Vertical with Pigtail Up |
| Electrode Length (L): 8' |
| Pigtail Length: 4' |
| Conductor Size: 4/0 Stranded |
| Kit: No |

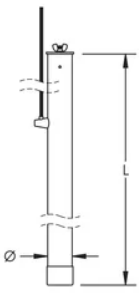
## ADDITIONAL PRODUCT DETAILS

Chemical ground rods can be ordered as individual components or as a complete kit. Kits include the chemical electrode (pre-filled with electrolytic salts), GEM, bentonite, and a high-density polyethylene inspection well.

| **ECR-V-10-2Q-4-U-B** | | |
|---|---|---|
| ECR | ERICO Chemical Ground Electrode System | |
| V | Installation | H: Horizontal<br>HE: Horizontal Extended<br>V: Vertical<br>E: Vertical Extended |
| 10 | Electrode Length (') | |
| 2Q | Cable Size | 1G: #6 Sol, 1L: #4 Str, 1T: #2 Sol, 1V: #2 Str<br>2C: 1/0 Str, 2G: 2/0 Str, 2K: 3/0 Sol, 2L: 3/0 Str, 2Q: 4/0 Str<br>2V: 250 kcmil Str, 3D: 350 kcmil Str, 3Q: 500 kcmil Str, 4L: 750 kcmil Str |
| 4 | Pigtail Length (') | |
| U | Pigtail Orientation | U: Up, D: Down |
| B* | Rod assembly only | Add "B" for rod assembly only. Leave blank for kit. |

* Empty if none

## DIAGRAMS




## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

**North America**
+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical Support

**Europe**
Netherlands:
+31 800-0200135
France:
+33 800 901 793

**Europe**
Germany:
800 1890272
Other Countries:
+31 13 5835404

**APAC**
Shanghai:
+ 86 21 2412 1618/19
Sydney:
+61 2 9751 8500