

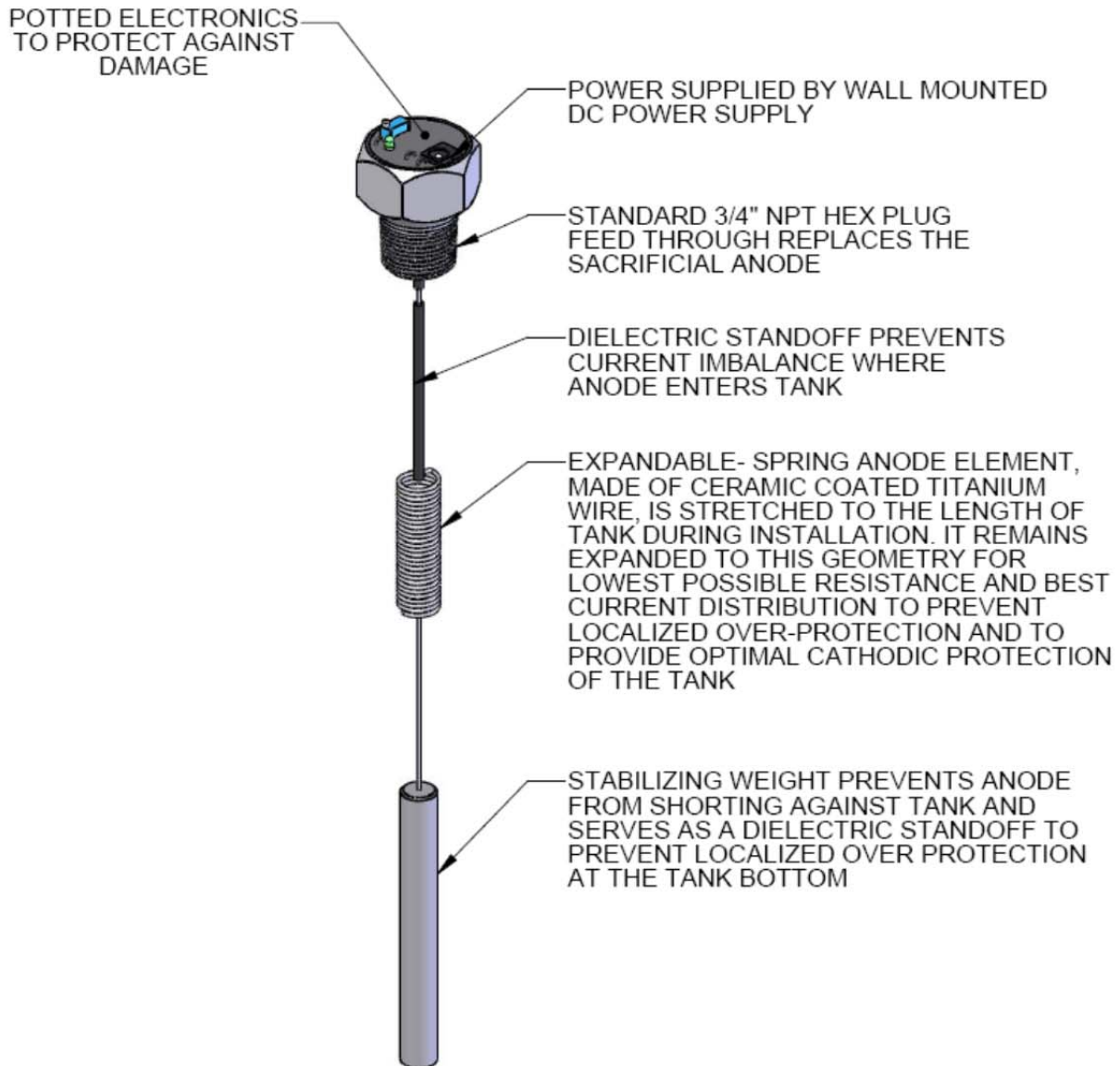
“NO MORE ROTTEN EGG SMELL”

CerAnode

EXPANDABLE-SPRING ANODE SYSTEM

DOMESTIC WATER HEATER

CATHODIC PROTECTION



EASY TO INSTALL

REPLACES SACRIFICIAL ANODE

ONE SIZE FITS MOST ALL DOMESTIC WATER HEATERS

COMPLETE WITH POWER SUPPLY

DESIGN LIFE = 20 YEARS

COST EFFECTIVE

Using state-of-the-art ceramic anode materials, CerAnode Technologies of APS-Materials, Inc. has developed an impressed current anode system for replacing the sacrificial anode commonly used in domestic hot water heaters. Traditionally, when these heaters are manufactured, a sacrificial anode is installed as part of the water heater. It is a well established fact that the life of a domestic hot water heater can usually be calculated based on the life of the sacrificial anode used to protect it from corrosion.

The warranties associated with the water heater industry are based on some average theoretical life of the sacrificial anode or anodes installed by the water heater manufacturer. The water heaters with long warranties simply have more sacrificial anodes in them. When the anodes are expended (sacrificed), the life of the water heater from that point on is very tenuous. In some geographical areas the water is so corrosive that water heaters will not even last the life of their warranty.

In commercial applications where multiple water heaters are used, keeping track of the warranties (which are often prorated) along with the costly maintenance headaches associated with water heater failure and replacement makes the new domestic water heater version of the CerAnode "Expandable-Spring-Anode" (ESA) very attractive and cost effective. Anyone responsible for large complexes involving multiple water heaters will welcome this new product. Long term maintenance-free water heater life is now achievable. This new CerAnode ESA impressed current anode system has a life many times that of the sacrificial anodes even in highly corrosive water.

CerAnodeTM Technologies International

Division of APS-Materials, Inc. -----

The new CerAnode ESA features a convenient "ONE SIZE FITS ALL" design that is easy to install. It is small, easy to handle and comes complete with a standard 3/4" NPT pipe plug feed-through connector and special rectifier. After removing what remains of the old sacrificial anode, the ESA "spring" is simply stretched out to the length of the water heater, lowered into the tank and the pipe plug screwed into place. In some cases where the "water out" port of the heater doubles as the anode port, a pipe "T" is also required to accommodate the anode installation.

The power supply included is for 100 - 132 volt and requires less than 0.5 watts of power to operate.

Since polarization potential adjustment is not easily accomplished or practical with a sacrificial anode, over protection is sometimes experienced with the use of sacrificial anodes. With the new CerAnode Expandable-Spring-Anode system, the optimization of corrosion mitigation for domestic hot water heaters is now possible.