POWERED ANODE ROD FOR WATER HEATER



CELEBRATED ENTERPRISE IN CATHODIC PROTECTION

JENNINGS ANODES

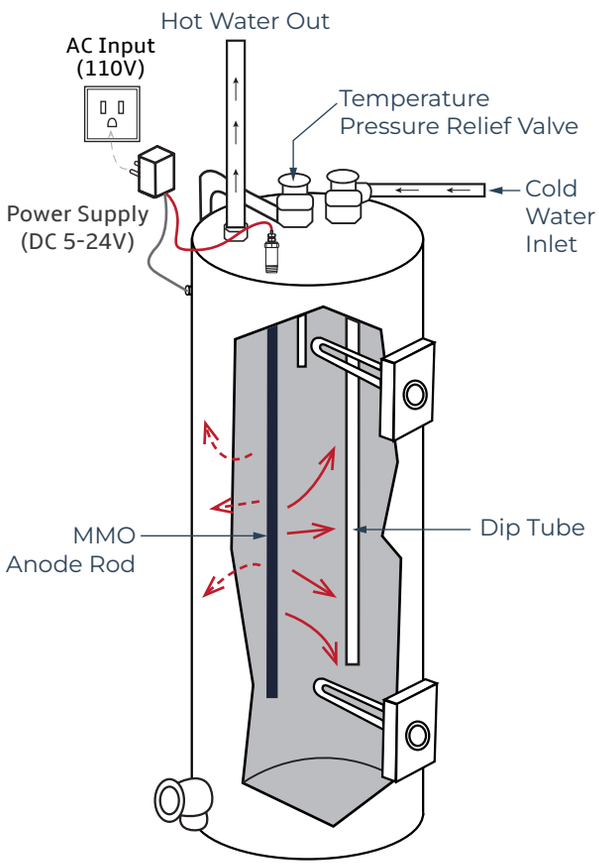
POWERED ANODE ROD FOR WATER HEATER

DATA SHEET

Different from traditional sacrificial anodes, which degrade themselves to protect the water heater tank, this powered anode rod is a more effective and economical option for prolonging the life of water heater tank, as well as softening water and removing the dirt.

The anode rod is made with high-tensile titanium coated with Ir–Ta mixed metal oxide catalyst. It is a stable material with low consumption rate, ensuring a lifespan in excess of 20 years.

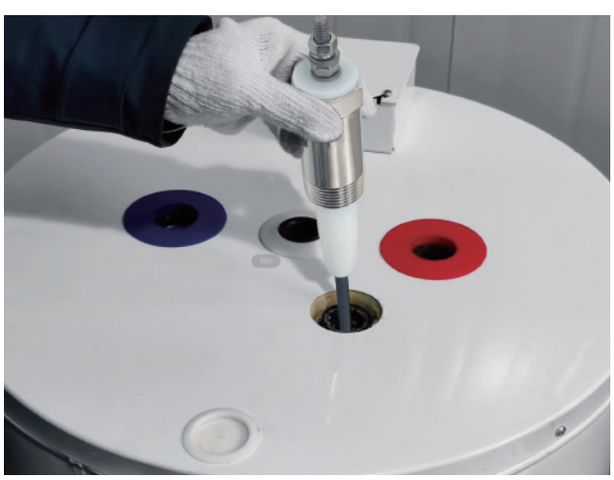
Activated by the electrical current, it provides sufficient electrons to protect the steel water heater tank steadily and continuously. This anode do not need to be changed as frequently as traditional anode rods as the powered anode rod does not disintegrate. This also means no residue is left in the water heater tank. In addition, it is excellent at removing the sulfurous “rotten egg” smell from the water heater tank.



Quality Substrate Material

Our anode rod is manufactured from high-tensile titanium rod, which meets ASTM B265 Grade 1 standards.

Element \ Standard	Grade I	Grade II
Iron (Fe)	0.20% max.	0.30% max.
Carbon (C)	0.08% max.	0.08% max.
Nitrogen (N)	0.03% max.	0.03% max.
Hydrogen (H)	0.015% max.	0.015% max.
Oxygen (O)	0.18% max.	0.25% max.
Titanium (Ti)	Remainder	Remainder



Low Coating Wear Rate

The Ir–Ta (IrO_2/Ta_2O_5) mixed metal oxide catalyst demonstrates high chemical stability for use in fresh water. The wear rate of the rod anode is extremely low and uniform. The thickness of the mixed oxide film decreases linearly with time at all points on the surface. Hence, the wear rate is constant over all current densities in both general and frequent use.

Permanent Corrosion Protection

Because the titanium substrate is naturally passivated by an oxidizing film, the rod anode remains dimensionally stable over time. Relying on an infinite source of impressed current, this powered anode rod can provide maximum corrosion protection regardless of water hardness.

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Odor Elimination

Once the system is operational, the powered anode rod will remove the sulfurous rotten egg smell caused by hydrogen sulfide within 24 hours.

Limescale Reduction

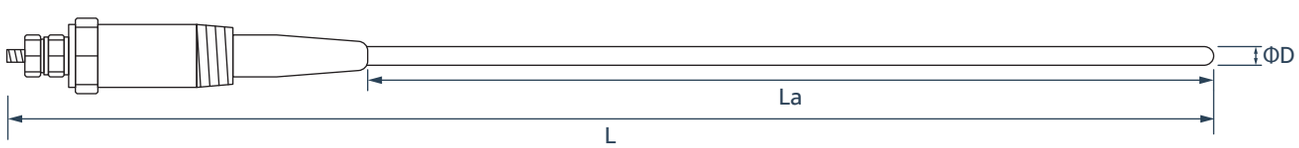
By destabilizing the calcium molecule found within the water, it can improve the water quality and reduce mineral accumulation on the tank which could cause significant energy losses.

Automatic Adaption

The embedded potentiostat can measure the returning current and adjust the output voltage automatically to avoid overprotection of the water heater tank. Regardless of the water source, the system adapts to the type of water present in the tank for optimal protection. No maintenance is required, even if used with a water softener.



SPECIFICATION



Item No.	Anode Rod Length (La)	Total Length (L)	Anode Rod Diameter(ΦD)	Tank Volume	NPT Thread
JA-A-49	13.8" (350 mm)	19” (484 mm)	0.24” (6 mm)	10-49 Gallons	3/4"-14
JA-B-90	19.7" (500 mm)	25" (634mm)	0.24” (6 mm)	50-90 Gallons	3/4"-14
JA-C-90	19.7" (500 mm)	25" (634mm)	0.24” (6 mm)	40-90 Gallons	3/4"-14

Notes: Custom-made sizes, special integration with water heaters’ PCB board and individual power plugs are available upon request.





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