



PLATINUM COATED TITANIUM PLATE ELECTRODE FOR ALKALINE WATER IONIZER



RENNOWNED SUPPLIER OF ELECTRODE MATERIALS

J
JENNINGS ANODES

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DATA SHEET



Alkaline water ionizer machine adopts advanced water micro-electrolysis technology to electrolyze water into hydrogen(H₂) and oxygen(O₂), which helps turn ordinary drinking water into hydrogen alkaline water. During the hydrogen production process, the material quality of the electrodes in the reactor is the key to ensure the efficiency of the electrochemical reaction.

With better conductivity and durability, our pure platinum coated titanium plate promotes the stable combination of hydrogen and water with high hydrogen concentrations. The end result is a hydrogen alkaline water that is more stable.



■ Quality Substrate Material

Our electrode is manufactured from high-tensile titanium, which meets ASTM B338-2017 standards.

Standard Element	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



■ Long Service Coating

Using state-of-the-art technology, the titanium base is taken to a high temperature ($\geq 1200^{\circ}\text{C}$) in a vacuum sintering furnace ensuring total adhesion of the platinum coating. Thus, the platinum coating consumption rate is extremely low and uniform, measured in milligrams per ampere-year.

Technical Parameters	Performance
Coating Composition	Platinum (Pt)
Coating Thickness	0.3 ~ 0.5 μm
Current Density (Max.)	5000 A/m ²
Operating Voltage (Max.)	24V
Electrolyte pH	1 ~ 12
Fluorides Content (Max.)	50 mg/L
Working Temperature (Max.)	80 $^{\circ}\text{C}$

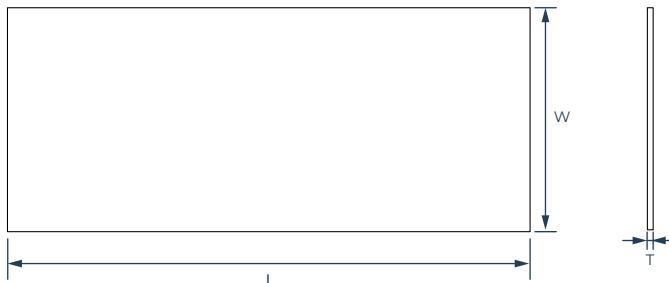


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SPECIFICATIONS



Item No.	Width	Length	Diamond Dimensions	Plate Thickness
JA-PTP-R50S	2.0" (50 mm)	3.15" (80 mm)	0.07" x 0.13" (1.7x 3.3 mm)	0.04" (1 mm)
JA-PTP-R50M	2.0" (50 mm)	3.9" (100 mm)	0.07" x 0.13" (1.7x 3.3 mm)	0.04" (1 mm)
JA-PTP-R50L	2.0" (50 mm)	5.9" (150 mm)	0.07" x 0.13" (1.7x 3.3 mm)	0.04" (1 mm)
JA-PTP-R60S	2.4" (60 mm)	3.15" (80 mm)	0.07" x 0.13" (1.7x 3.3 mm)	0.04" (1 mm)
JA-PTP-R60M	2.4" (60 mm)	3.9" (100 mm)	0.07" x 0.13" (1.7x 3.3 mm)	0.04" (1 mm)
JA-PTP-R60L	2.4" (60 mm)	5.9" (150 mm)	0.07" x 0.13" (1.7x 3.3 mm)	0.04" (1 mm)

Notes: All dimensions and weights are nominal. The parameter provided is subject to variation in material compositions and Jennings Anodes foundry tolerance.



Worldwide Service Network

Our worldwide network of sales and service centers can provide immediate advice and assistance on the complete range of products.

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