



MAGNESIUM CONDENSER ANODES

PRODUCT DATA SHEET

MAGNESIUM CONDENSER ANODES

We manufacture a full product line of magnesium anode slabs and blocks, suitable for use in heat exchangers, condenser water boxes, cooling towers, intercoolers and tank interiors.

Our condenser anode is available as either bare or plastisol coated. The plastisol (polyvinyl chloride) coating on the sides, ends, and faying surfaces serves as an excellent current barrier shield.

CHEMICAL COMPOSITION

Our magnesium anode is produced using H-1 Grade C (commonly known as H1C) alloy ingots, conforming to ASTM B843-AZ63B standard.

Element		Content (%)
Aluminum	(Al)	5.300 ~ 6.700
Manganese	(Mn)	0.150 ~ 0.700
Zinc	(Zn)	2.500 ~ 3.500
Silicon	(Si)	0.100 max.
Copper	(Cu)	0.020 max.
Iron	(Fe)	0.003 max.
Nickel	(Ni)	0.002 max.
Single Impurity	(Each)	0.050 max.
Other Impurities	(Total)	0.300 max.
Magnesium	(Mg)	Remainder

ELECTROCHEMICAL PROPERTIES

With an open circuit potential of negative 1.5 volts w.r.t. Cu/CuSO₄ reference electrode, our aqueous magnesium anodes are normally used in fresh water applications.

Technical Measurement	Performance
Open Circuit Voltage	1.50 ~ 1.55 Volts
Closed Circuit Voltage	1.45 ~ 1.50 Volts
Current Capacity	1230 A.h/kg (550 A.h/lbs)
Current Efficiency	55% min.

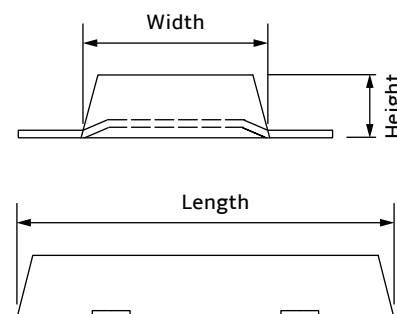
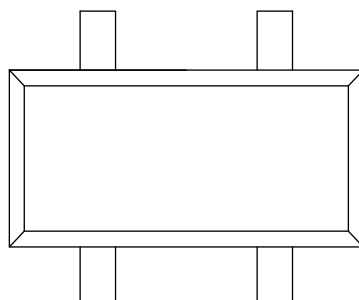
* The open/closed circuit voltage is with respect to a saturated calomel electrode.



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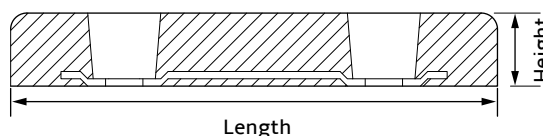
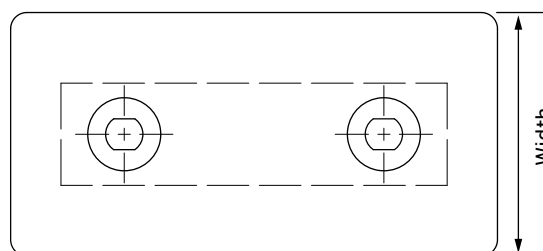
SPECIFICATIONS

Trapezoidal Shape Anode



Item No.	Weight	Width	Height	Length
YX-MG-T77	3.5kg (7.7 lbs)	200mm (7.9")	50mm (2.0")	200mm (7.9")
YX-MG-T51	2.3kg (5.1 lbs)	150mm (5.9")	30mm (1.2")	300mm (11.8")
YX-MG-T441	20kg (44.1 lbs)	229mm (9.0")	100mm (3.9")	457mm (18.0")

Rectangular Shape Anode

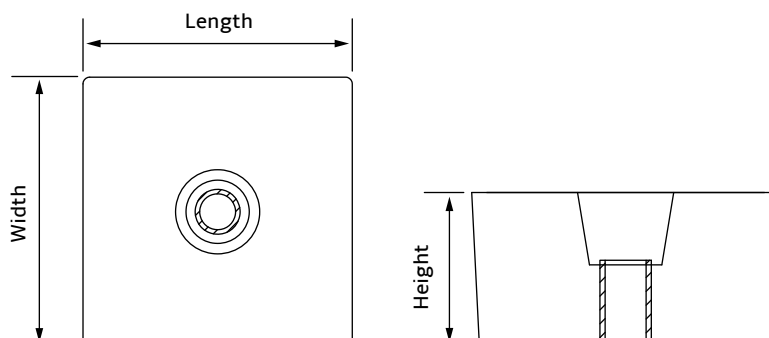


Item No.	Weight	Width	Height	Length	Bolted Hole
YX-MG-DR3012	0.5kg (1.1 lbs)	75mm (3.0")	30mm (1.2")	150mm (5.9")	Double
YX-MG-SR3912	0.5kg (1.1 lbs)	100mm (3.9")	30mm (1.2")	100mm (3.9")	Single
YX-MG-SR3920	0.8kg (1.8 lbs)	100mm (3.9")	50mm (2.0")	100mm (3.9")	Single
YX-MG-DR3912	1.0kg (2.2 lbs)	100mm (3.9")	30mm (1.2")	200mm (7.9")	Double
YX-MG-DR5912	2.2kg (4.9 lbs)	150mm (5.9")	30mm (1.2")	300mm (11.8")	Double
YX-MG-DR7926	6.5kg (14.3 lbs)	200mm (7.9")	65mm (2.6")	300mm (11.8")	Double



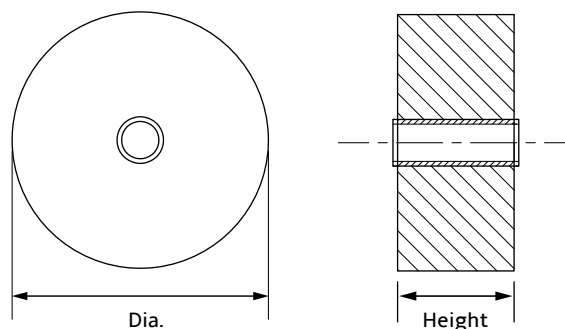
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■ Square Shape Anode



Item No.	Weight	Length	Width	Height
YX-MG-S8020	3.4kg (7.5 lbs)	203mm (8.0")	203mm (8.0")	51mm (2.0")
YX-MG-S8040	6.8kg (15.0 lbs)	203mm (8.0")	203mm (8.0")	102mm (4.0")

■ Round Shape Anode



Item No.	Weight	Diameter	Height
YX-MG-C5020	1.1kg (2.4 lbs)	127mm (5.0")	51mm (2.0")
YX-MG-C5040	2.2kg (4.9 lbs)	127mm (5.0")	102mm (4.0")

Note: All dimensions and weights shown above are nominal. The information provided is subject to change without notice.





Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheep with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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