

ONYX® 12 DC | Mag II Magnetics

Metric Specifications

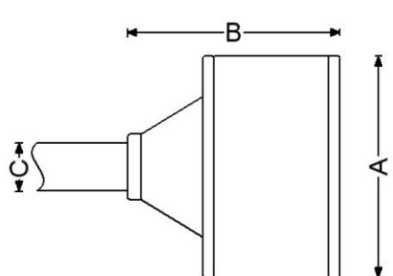
Construction

Anode	304 Stainless Steel
Cathode Body	OFHC Copper
Insulator	PTFE/CTFE

Cooling Requirements

Flow Rate at Maximum Power	26.5 LPM
Maximum Input Pressure, Open Drain	4 Bar
Maximum Input Temperature	20° C

Dimensions

A	360mm	
B	162mm	
C	75mm	

General

Magnetic Enhancement	Permanent (NdFeB) Encapsulated
Maximum Temperature	100° C
Source to Substrate Distance	50-300mm
Weight, Approximate Without Options	55 kg

Maximum Sputtering Power *

Cathode Voltage	100 – 1500 Volts
Discharge Current	40 Amps
Direct Cooled Mode, DC	28 kW
Direct Cooled Mode, RF	Consult Factory
Operating Pressure	0.07 – 6.7 Pa

Mounting Standard

Power	Screw Termination
Stem, Outer Dimension Tubing	75mm
Water Outer Dimension Tubing	19mm

Target

Cooling	Direct/ Bonded
Outer Diameter	305mm
Form	Circular / Planar
Thickness, Magnetic	6mm Nickel (Ni)
Thickness, Non-Magnetic	6-19mm

Specifications Disclaimer

- All Angstrom Sciences NdFeB magnets are totally encapsulated and protected from degradation by water.
- * Maximum power for cathode only, a target material's properties, such as, thermal and electrical conductivity may limit the maximum process power level.
- Specifications are subject to change without notice.
- Typical performance. Results may vary with process parameters such as pressure, flow rate, target material, substrate rotation, etc.

Please contact us for specifications regarding your application.
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