

ONYX® 12 Rotary | Standard Magnetics

US Specifications

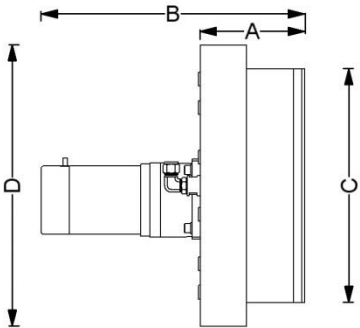
Construction

| | |
|--------------|---------------------|
| Anode | 304 Stainless Steel |
| Cathode Body | 304 Stainless Steel |
| Insulator | PTFE/PEI/CTFE |

Cooling Requirements

| | |
|------------------------------------|--------|
| Flow Rate at Maximum Power | 7 GPM |
| Maximum Input Pressure, Open Drain | 60 psi |
| Maximum Input Temperature | 68° F |

Dimensions

| | | |
|---|---------|---|
| A | 6.489" |  |
| B | 16.359" | |
| C | 14.582" | |
| D | 17.55" | |

General

| | |
|-------------------------------------|--------------------------------|
| Magnetic Enhancement | Permanent (NdFeB) Encapsulated |
| Maximum Temperature | 212° F |
| Source to Substrate Distance | 2.000" – 12.000" |
| Weight, Approximate Without Options | 120 lbs. |

Maximum Sputtering Power *

| | |
|------------------------|------------------|
| Cathode Voltage | 100 – 1500 Volts |
| Discharge Current | 40 Amps |
| Direct Cooled Mode, DC | 20 kW |
| Direct Cooled Mode, RF | Consult Factory |
| Operating Pressure | 0.5 – 50 mTorr |

Mounting Standard

| | |
|------------------------------|-------------------|
| Power | Screw Termination |
| Stem, Outer Dimension Tubing | DN320-LF |
| Water Outer Dimension Tubing | 0.75" |

Target

| | |
|----------------|-------------------|
| Cooling | Direct/ Bonded |
| Outer Diameter | 12" |
| Form | Circular / Planar |
| Thickness | 0.25 – .75" |

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.
Angstrom Sciences | Call +1-412-469-8466 | www.angstromsciences.com