



# DENTON VACUUM Desktop Pro

The Desktop Pro is designed to address the need of high performance sputtering applications in a compact and economical desktop configuration. Drawing on the strengths of Denton Vacuum's engineering, automation, and industry leading range of sputtering technology, the Desktop Pro is a truly remarkable product that requires less than 36" of countertop space.

Capable of sputtering dielectric and metal films with ease, the Desktop Pro can be outfitted with up to two (2), 2.0" diameter magnetrons. The magnetrons are inclined to a rotating substrate stage; an arrangement that yields excellent film thickness uniformity (better than 5%) over the entire diameter of the stage. The system can be outfitted with either an RF, DC, or RF + DC power supply and optional magnetics to support the sputtering of ferromagnetic materials are available. Power supply output switching allows a user to power two cathodes sequentially from a single power supply; a feature that can result in significant cost savings.

The Desk Top Pro comes standard with a 65 liter/second, compound turbomolecular pump for impressive base vacuum levels, short pump downs, and gas load handling. An optional liquid nitrogen trap is available for those applications that demand high water vapor pumping speed. The operator interface uses a color touch-pad that offers high resolution graphics, manual operation and one-button automatic processes.

The Desktop Pro's impressive capabilities are supported by a comprehensive one-year warranty and application support from Denton Vacuum LLC's team of skilled process engineers. Quite simply, there is no better value available anywhere!



# Desktop Pro for ..... Sputtering

## Cathode Options

- 1 or 2 cathodes
- 2" cathode diameter
- Enhancements to process thick magnetic targets

## System Options Available

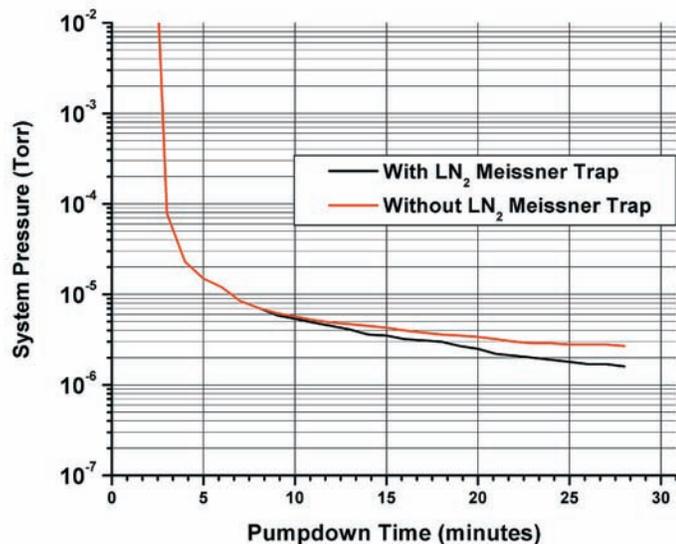
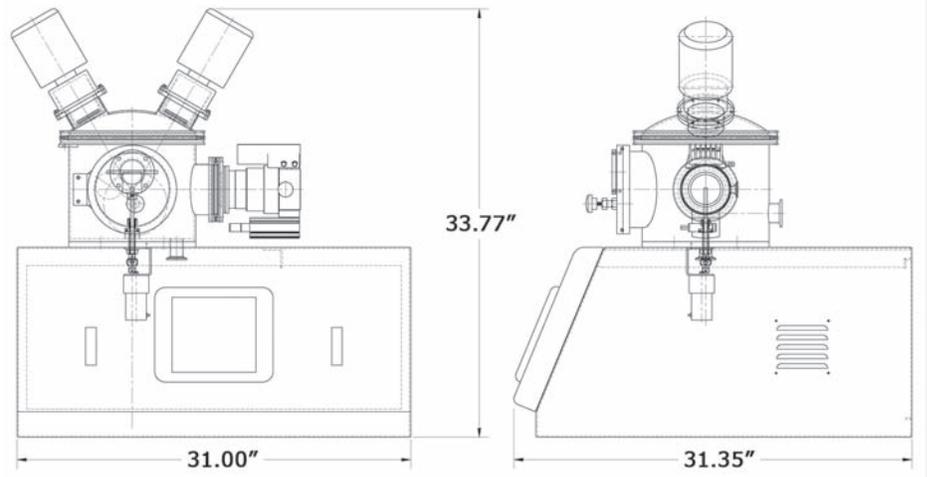
- LN<sub>2</sub> Meissner Trap
- Co-sputtering
- RF / DC / power supplies
- Power switchboxes to allow multiple cathode operation from a single power supply
- Mass flow controllers for precise gas metering

## Typical Applications

- Materials research
- Product QC & QA
- Semiconductor failure analysis
- Nanotechnology
- Compound Semiconductors

## Utilities Required

- Power: 208 VAC single phase (current load dependant upon options)
- Water: 1 GPM per cathode ( $\Delta P = 60$  PSI max. inlet pressure 60 PSI)
- Air: 90 psig



## DENTON VACUUM

1259 North Church St., Moorestown, NJ 08057 USA  
 Email: [info@dentonvacuum.com](mailto:info@dentonvacuum.com)  
 Toll Free: 800-666-6004

USA	China
(Tel) 856/439-9100	+86 10 8233 2801
(Fax) 856/439-9111	+86 10 8233 2803

[www.dentonvacuum.com](http://www.dentonvacuum.com)

*Engineering Solutions for Thin Film Applications*