

- PVD: Physical Vapor Deposition
- CVD: Chemical Vapor Deposition



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Vaksis Vacuum Systems Bulletin Year: 2, No: 5, July 2012

For Vacuum Systems Users

2 golden suggestions!

- 1) When you use Nitrogen and/or Argon which are not poisonous but choking gases in your system, you sure that these gases do not decrease the oxygen of the environment (e.g. inner of the vacuum chamber).
- 2) Do not forget that air-conditioning of the room that you will place the thin film coating device is important. For user's health and film quality, dust rate of the environment should be as low as possible and noisemaker devices (like vacuum pump, chiller unit and air compressor) and gas cylinders should be in the separate room like service room.



Dr. Baybars ORAL COMPANY MANAGER

We will continue giving golden suggestions in the next bulletins...



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new product ——— PVD-handy®/1M-sm

handy seriles

1M: One piece of magnetron sputtering source sm: Small

Special design sputtering system with one magnetron source and Manual control for low budget projects.

Magnetic materials, especially Nickel can be sputtered in this system which is designed for low budget.

CONTROL AND USAGE

All electrical and electronic devices are controlled from their front panel. By opening chamber's cover, the target can be changed and accessibility to the substrate is possible.

System includes the following specifications.

Technical specifications

Pressure measurement: <1x10⁻⁵ Torr (Base pressure: <3x10⁻⁶ Torr)

High-speed pump 70 lt/s turbo pump

Mechanical pump: 1 m³/h oil-free diaphragm

mechanical pump

Substrate size: Ø25 mm

Deposition method: Magnetron sputtering

Deposition mode: Downward

Number of source: 1 Loading: From top Control: Manual





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activities

which we attended...

Condensed Matter Physics Aegean Region Meeting (6thApril 2012)

39th ICMCTF International Conference on Metallurgical Coatings and Thin Films, San Diego CA USA (23rd -27thApril 2012)

ICSM 2012 International Conference on Superconductivity and Magnetism Kumburgaz - İstanbul (29 April-4th May 2012)

8th Nanoscience and Nanotechnology Conference NANOTR-8, Hacettepe University-Ankara (25-29th June 2012)

which we will attend...



27th European Photovoltaic Solar Energy Conference and Exhibition, Frankfurt- Germany (25-28th September 2012)

www.photovoltaic-conference.com www.photovoltaic-exhibition.com



SOLARTR-2 Solar Energy Conference and Exhibition, Antalya Dedeman (7-8th November 2012)

http://www.solartr.org/index.html









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