

DESK THERMAL EVAPORATOR-DTT



The Desk Thermal Evaporator-DTT is a compact desktop thermal evaporator designed for vacuum deposition of thin films. This system offers triple-source evaporation capabilities, allowing you to select from different evaporation sources such as boats, baskets, or coils.

This flexibility makes it ideal for depositing multilayer films or alloys. The DTT's efficient design enables it to reach the required vacuum pressure quickly, making the coating process a matter of minutes. This system is well-suited for laboratory research applications.

APPLICATIONS

- Metal and dielectric films
- Fabrication of thin-film sensors
- Optical components
- Nano and microelectronics
- Solar cells

FEATURES

- Multi-layer thermal coatings
- Large format chamber
- High vacuum turbo pump with pumping speed options of 90 l/s to 350 l/s
- Achieves ultimate pressure levels ranging from 7×10^{-6} to 7×10^{-7} Torr
- Equipped with a two-stage rotary vane backing pump with a capacity of $6 \text{ m}^3/\text{h}$
- Includes a full range vacuum gauge
- Offers a choice of evaporation sources, including boat, basket, or coil, for multilayer thin film deposition

- Optional co-evaporation capability for alloy film formation
- Features a quartz crystal monitoring system for real-time thickness measurement with 1 nm precision
- Supports manual or automatic timed or thickness-based deposition
- Intuitive touch screen for easy process control and rapid data input
- User-friendly software that can be updated via a network connection
- Electronic shutter for precise control
- Optional rotary sample holder
- Optional 2-inch substrate heater capable of reaching temperatures up to 500°C
- Comes with a two-year warranty

Thermal Evaporation Sources (boat/ basket/ coil)

The DTT, a desk vacuum thermal coater, can be equipped with three separate high-temperature thermal evaporation sources. The thoughtful design of the evaporation source holder ensures that there is no cross-contamination between source materials. Additionally, the length of the source holders is adjustable within the range of 5-9 cm.

Touch Screen Control

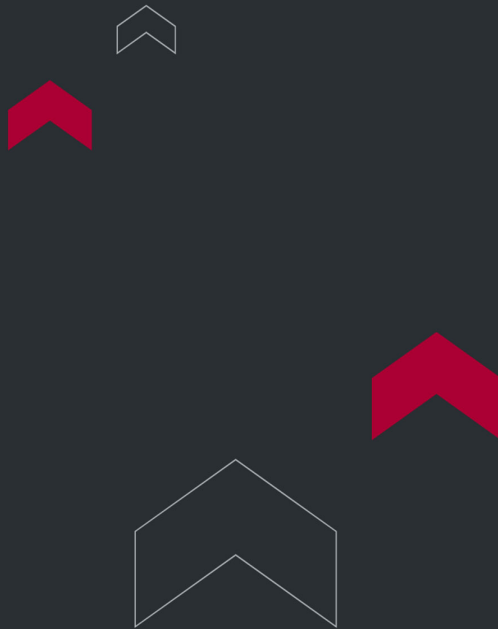
DTT, is equipped with a 7" colored touch screen and full automatic control and data input that can be operated by even inexperienced users. The vacuum, current and deposition information can be observed as digital data or curves on the touch screen. Information of the last 300 coating can also be saved in the history page.

TECHNICAL SPECIFICATIONS

- Multi boats, baskets, and coils installation
- Records and plots coating parameters graphs
- Transfers the curves and deposition process data by USB port to PC
- Automatic control of power of coating independent of pressure
- Water cooled high current electrical feed through
- 0-100 high current, protected against short circuit, DC power supply
- Utilities: 220/110V, 50/60HZ- 16/25A
- Dimensions: 60 cm H × 65 cm W × 50 cm D
- Shipping weight: ~ 60 kg

Options and Accessories

- High current power supply for co-evaporation
- Quartz crystal sensors
- Spare glass chamber
- Evaporation sources (boat / basket / coil)
- 2 inches, 500 °C substrate heater
- Sample rotation
- MFC (Mass Flow Controller)
- Sealing gaskets



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