PRODUCT DATASHEET

Automatic Film Coater with Heated Vacuum Bed

Membrane casting and electrode coating





DETAIL – HEATED VACUUM BED AND APPLICATOR

OVERVIEW

The Tech Inc. Automatic Film Coater with Heated Vacuum Bed draws an applicator blade across a substrate at a set speed, so polymer solutions and electrode slurries are spread into films of even thickness. The vacuum bed holds the substrate flat, and the heated bed and cover dry the film in place. It serves membrane laboratories and battery laboratories with the same machine.

MODELS AND CONFIGURATIONS

- **Standard coater** – vacuum bed, heater and motorised applicator.
- **Coater with drying cover** – adds a heated cover for drying in place.
- **Wide-bed version** – larger bed for wider membranes and electrodes.
- **Glove box version** – compact frame for use inside a glove box.

TYPICAL DESIGN DATA

Coating width	To client specification
Stroke	To client specification
Coating speed	Adjustable; range to client specification
Bed temperature	Ambient to the specified drying temperature
Applicators	Fixed-gap and adjustable micrometer applicators

APPLICATIONS

Flat sheet membrane casting, battery electrode coating, separator and coating research, and thin-film work in university and industry laboratories.

KEY ADVANTAGES

- **Repeatable films** – constant speed and gap give even thickness from film to film
- **Flat substrates** – the vacuum bed holds foils and glass plates flat
- **Dry in place** – heated bed and cover dry the film without moving it
- **One machine, two fields** – casts membranes and coats battery electrodes

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