



The new MEMCAST™
Redefining membrane creation

The MEMCAST™ automatic film caster is engineered to streamline and enhance the process of membrane creation.

The MEMCAST™ automatic casting machine is ideal for the automated synthesis of flat sheet polymeric membranes. This state-of-the-art machine allows for the precise creation of membranes with varying thicknesses by applying a thin film of polymer solution.

After the immersion in a coagulation bath, this results in the formation of the final membrane via wet phase inversion. Whether you need self-standing film layers, or you prefer to cast on various substrates, MEMCAST™ offers the ultimate solution.



Specifications

CASTING SIZE	ca. 350 x 560 mm
CASTING SPEED	0.1 up to 10 cm/s
HEATING OF THE COATING SURFACE	up to 60 °C

Key features

Adjustable speed and temperature control

MEMCAST™ offers easily adjustable settings for coating speed and temperature. This ensures smooth and consistent membrane production within minutes.

One-button operation

MEMCAST™ simplifies the casting process. Just press a button, and the instrument takes care of the rest. No more intricate manual steps or time-consuming adjustments.

Versatile casting knife

The MEMCAST™ comes with a standard knife featuring 1 compartment and 4 thicknesses (M1G4) for casting films of 100 µm, 150 µm, 250 µm, and 500 µm wet thickness. Custom-made knives are available upon request.

Reproducibility

The MEMCAST™ guarantees consistent and reproducible membranes, minimizing variations and inconsistencies that are often encountered in manual processes.

Easy coating mechanism

The MEMCAST™ boasts a user-friendly mechanism for attaching and detaching the coating support, facilitating rapid immersion in a coagulation bath.

Precise coating length control

Determine the coating length by either setting a stop point before casting or by using the optional stop button during the application.

Safety and ease of use

The one-arm casting design not only enhances operator safety but also makes it easier to remove the casting plate.

Durable operation

Casting is performed on a tempered glass casting plate, ensuring plain and durable operation.

Digital control

MEMCAST™ features a digital display for easy parameter control and readout, enhancing user convenience.



Aptco Technologies

MEMCAST™ is a brand of Aptco Technologies NV, a Belgian based company that was founded in 2007.

Aptco Technologies is specialized in the manufacturing and supply of measuring and testing instruments as well as sample preparation equipment for laboratories. Our competence to design, develop and manufacture in-house hardware and software solutions allows us to respond readily to the demands of specific applications and markets. We complement this offering by partnering with high quality brands to guarantee our customers the best solution for their needs.

As part of the Aptco Group, we work closely with a unique network of partners and distributors to offer our wide range of solutions with greatest flexibility and dedicated local know-how and support.

Some of our customers



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