



EVOM™ Adjustable Warming Plate

Go Beyond Temperature Monitoring—Actively Maintain Your Sample Plate at a Stable 37°C for Optimal Results



The EVOM™ Adjustable Warming Plate (WPI #EVM-AC-03-03-02) is a sample warming platform that actively maintains the physiological temperature of 37°C, ensuring stable and reliable TEER measurements when used with an EVOM™ Manual and an STX4 or STX HTS electrode. Unlike mere temperature monitoring, which only alerts users to fluctuations, maintaining the correct temperature prevents variability, enhances data accuracy, and preserves cell integrity. With warming parameters preset for users' convenience, this system eliminates guesswork and provides a consistently controlled environment for optimal experimental results. Although Warming Plate is primarily for EVOM™/TEER measurement, it also gives you the flexibility to use it with other applications which require temperatures ranging from 30°C to 45°C.

WHAT IS TEER?

EVOM™ based transepithelial electrical resistance (TEER) measurement of cellular layers is considered the gold standard for evaluating barrier integrity and tissue function. The TEER readings are known to be affected by fluctuations in the sample temperatures. Normal practice has been to take the sample plates out of the incubator and let the plate equilibrate for 20 minutes at room temperature before measuring samples. WPI's EVOM™ Warming Plate allows you to maintain sample plate temperature at 37°C, the same as the incubator temperature, while the resistance/TEER values are measured with WPI's EVOM™ Manual and chopstick electrodes, such as STX4 or STX HTS. Using the EVOM™ Warming Plate, the effect of temperature fluctuation is minimized, and the measurement can be taken at the physiological temperature. This also saves your time by eliminating the requirement of room temperature equilibration before measurement. As shown in Fig 1, the heating block and lid of the EVOM™ Warming Plate let you warm a sample well plate to the desired temperature or maintain a warm sample well plate at the desired (incubator like) temperature of 37 °C.



HIGHLIGHTS

- Compact 6, 12, 24, and 96 well plate warming platform
- Maintain sample temperature outside the incubator
- Fast temperature equilibration/stabilization for TEER measurement
- Heat a sample well plate from room temperature to 37°C in less than 12 minutes
- Maintains the plate at temperatures ranging from 30°C – 45°C

BENEFITS OF EVOM™ ADJUSTABLE WARMING PLATE

- Maintain the sample plate temperature at 37°C, the same as the incubator, while measuring the resistance/TEER values with WPI's EVOM™ Manual and electrodes, such as STX4 or STX HTS.
- Minimize the effect of temperature fluctuation by taking measurements at the physiological temperature
- Save time by eliminating the need for room temperature equilibration before measurement
- Warm a sample well plate to the (incubator like) temperature of 37 °C, or any temperature between 30°C and 45°C.

SPECIFICATIONS

Type	Description
Adjustable Warming Plate System Weight	3.5 lbs; Packaged (4.5 lbs)
Dimension (L x W x H)	17 x 16 x12 cm
Working Environment	20–25°C, 35–50% (Relative Humidity)
Ideal Temperature Range	Room Temperature +5–25°C
Temperature Range	37.0 °C (Program #1), 30.0°C -45.0 °C (Programs #2–9)
Temperature Stability	±0.5 °C
Display accuracy	0.1 °C
Heating Time	< 12 min from Room Temperature
Timing Range	6 h 00 min (Program #1), 0–6 h 00 min (Programs #2–9)
Power Supply	VAC100-240, 50/60Hz, VDC24V-4A
Power	96 W*
Certifications	CE

**US power cord is included with the warming plate. (If the product is shipped outside of the USA, the appropriate power cord is included, based on the shipping destination country.)*

