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OPEN PAN EVAPORIMETER

(As per IS : 5973-1970)

Open Pan Evaporimeter is used for Estimation of evaporation from the surface.

The Open Pan Evaporimeter consists of a cylindrical reservoir made of Copper sheet of fixed diameter and depth, filled with water to a few centimeters below rim. A fixed point gauge in a stilling well serves to indicate the level of water in the pan. A calibrated measuring cylinder is used to add or remove water at each observation to bring the water level to the fixed point. The cross-sectional area of the measuring cylinder is such that, the number of millimeters of water added from the measuring cylinder divided by 100 gives the amount of water in millimeters which has evaporated from the pan during the given interval of time. The reservoir is covered with wire-mesh netting to protect the pan from birds and animals. A thermometer suspended from a mounted clamp to the side of the reservoir, records the temperature of the water in the pan. Platform is made from wood.

Specifications

1. Pan

Size	1.22 x 0.255 m (diameter x height)
accuracy of reading	0.1 mm
Pan evaporimeter	copper sheet of thickness 1.0 ±0.1 mm point gauge and stilling well made from brass

2. Measuring cylinder

Material	clean cast seamless acrylic plastic
bottom plate	acrylic plastic sheet
thermometer clamp	brass
platform	wooden
inner diameter	122 mm