Email : sales@laboratoryinstrumentindia.com

Product Name :	**Product Code :**
Solar Distillation Apparatus	LBNY-0005-1730001

Description :

This contains the brine liquid to be studied and is covered by a sheet of flat plate glass, set at an angle of 12º to the horizontal, so that water condensing on it readily runs down to the lower edge. Water evaporating from the tray condenses on the inside surface of the glass cover, runs down to the lower edge and collects in a channel alongside the evaporating basin, from whence it drains to a volumetric measuring vessel. Solar Still Basin Type: This includes a shallow square evaporating tray, the base of which is fitted with removable heat insulating material which assists in the evaporation process. Temperature measurement by multi-point thermocouple instrument is provided at the following points: - feed, brine (output), ambient, glass (outside), glass (inside), the vapour space, centre of tray (under mat), mat (top side). The whole top section of the still may be turned horizontally through 180, so making it possible to alter the angle of incidence of sunlight on the absorbing pad. An optional pen recorder is available to continuously record these temperatures.

Features:
Horizontal rotation of basin through 180º
Non corrosive materials used in all critical areas
Temperature measurement at eight points
Pen recorder to continuously record temperatures
Variable angle of incidence of sunlight on the absorbing pad Variable thermal insulation material mounted horizontally on a rigid steel stand
Ability to tilt base continuously by +5º and -5º to the horizontal
Removable solar radiation mat
Extendable tray angles and hence flow rates.

Technical Specification :

Experimental Capability:
Effect of inclination, ambient temperature, wind velocity and the effect of cooling the glass cover
Demonstrates the onset of reflux
Measures output and efficiency against solar energy input, amount of base insulation, brine depth
Effect of different absorbent surfaces
Investigate the comparison between all characteristics of the two units under identical conditions
Investigate the effects of varying the inclination of the absorption surface and the flow rate, recording at the same time the film thickness

Laboratory Instrument India