

SEPARATING & THROTTLING CALORIMETER (EE-1622)

SEPARATING CALORIMETER

It consists of two concentric chambers, the inner chamber and the outer chamber, which communicates with each other through an opening at the top. As the steam discharges through the metal basket, which has a large number of holes, the water particles due to their heavier momentum get separated from the steam and collect in the chamber. The comparatively dry steam in the inner chamber moves up and then down aging through the annular space between the two chambers and enters the Throttling Calorimeter.

THROTTLING CALORIMETER

It consists a narrow throat (Orifice). Pressure and temperature are measured by pressure gauge and thermometer. The steam after throttling process passes through the heat exchanger and condensate is collected. Steam Generator is also provided to supply the saturated steam (Max) at 2kg/cm² pressure. There is no need of boiler.

SCOPE OF EXPERIMENTATION:

To find the dryness fraction of steam.

