

Study of evaporating still and Evaporating Pan

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Classification of Evaporation Equipment

I. Natural circulation evaporators

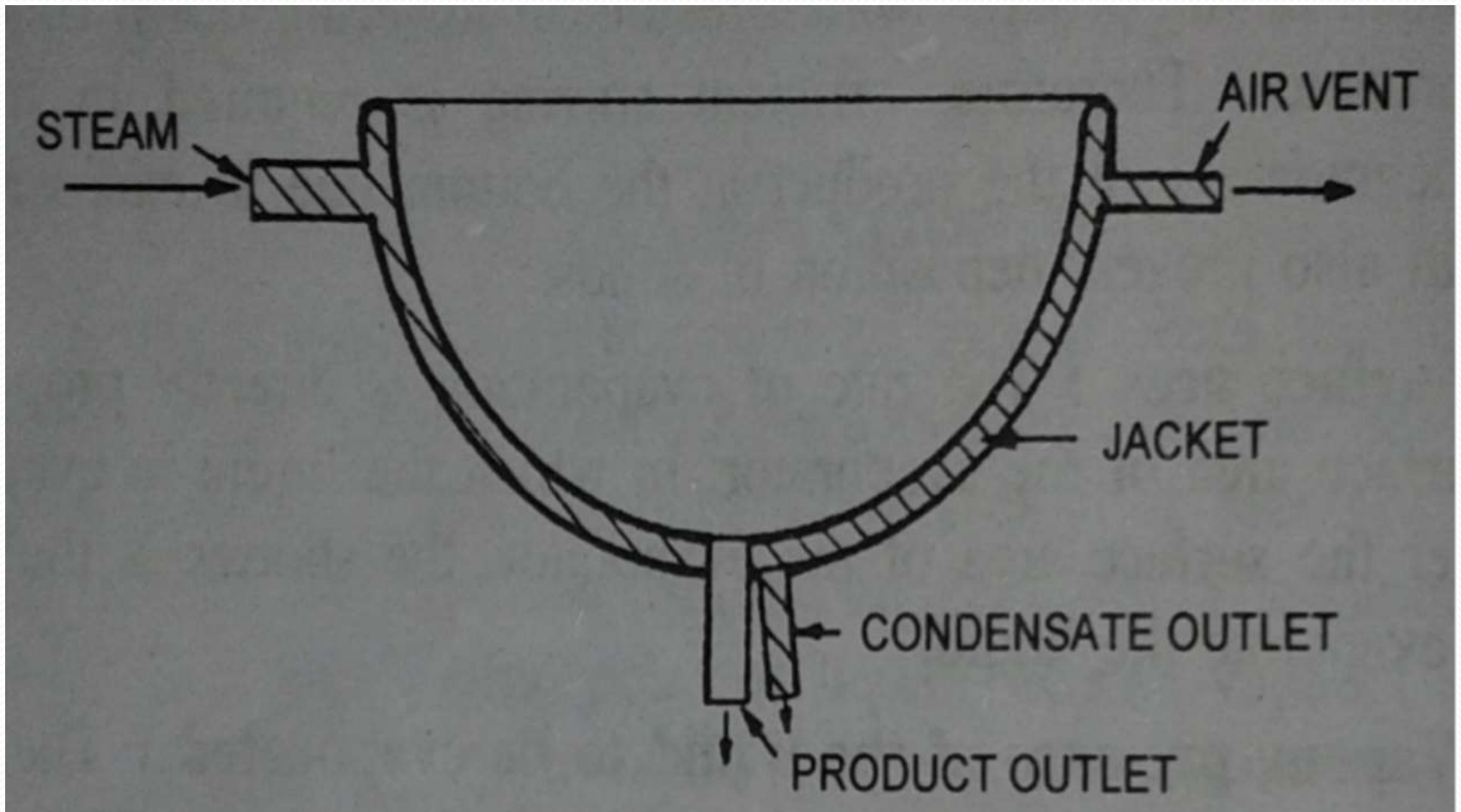
1. Evaporating pans
2. Evaporating still
3. Short tube evaporators

II. Forced circulation evaporators

III. Film evaporators

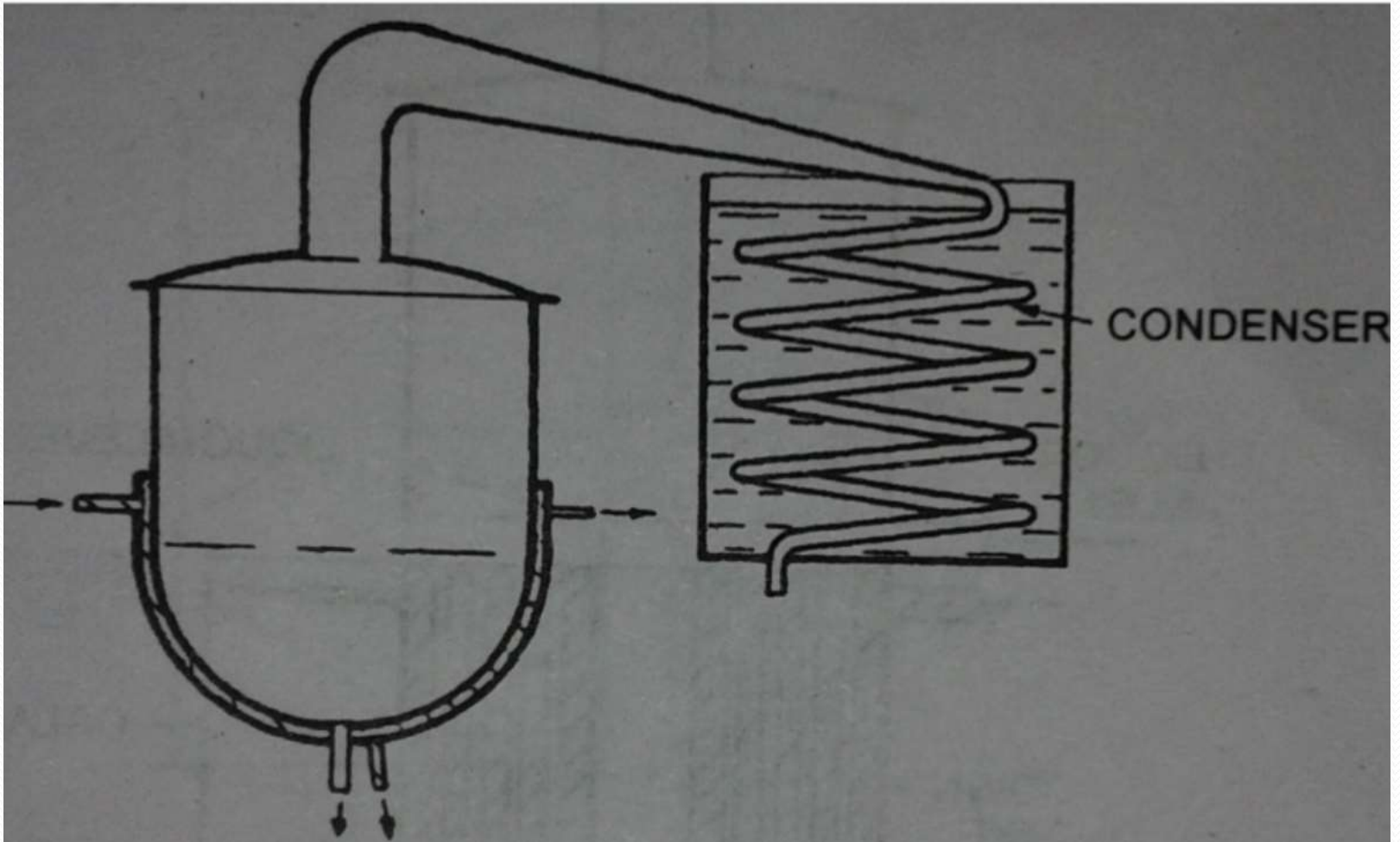
1. Climbing film evaporators
2. Horizontal film evaporators

Evaporating Pan



- *Evaporating pan* consists of a hemispherical pan made from copper or stainless steel and surrounded by steam jacket.
- The hemispherical shape provides a large surface area for evaporation.
- The evaporators are mounted in such a way that they can be tilted to remove the product.
- The evaporating pans are heated by steam which passes through a steam jacket.

Evaporating still



- This type of evaporator is commonly known as a “Still” because the evaporating pan is covered and is connected to a condenser so that the vapours are condensed into the liquid.
- There is a vessel similar to the evaporating pan with a cover that connects it to the condenser, so that the liquid is distilled off.