Partial Draw Off

Product Coding
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Introduction

Partial draw off is a tower internal designed to withdraw a controlled portion of the liquid flowing across a distillation, absorption, or stripping tray. Unlike a total draw off, which removes all tray liquid, a partial draw off extracts only a specific fraction, while the remaining liquid continues downstream across the tray deck or flows into the next downcomer.

Partial draw off systems are essential in towers where side stream product control, heat integration, pump around circuits, or intermediate composition adjustment is required. They are engineered to provide stable hydraulics, accurate flow control, and clean, low-entrainment liquid withdrawal under varying process loads.

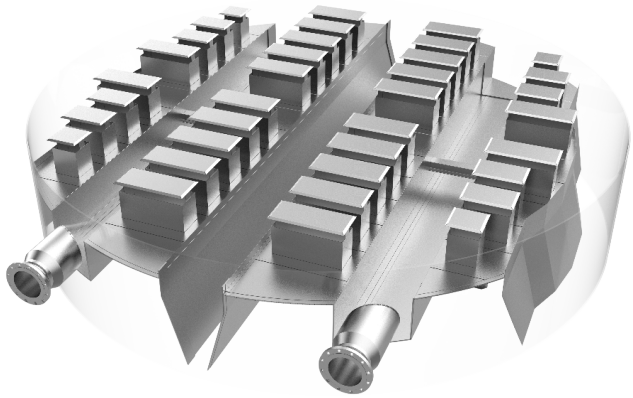
For medium process requirements (e.g. chimney trays in vacuum towers) a leakage rate of less than 0.06 $m^3/(m^2h)$ has to be achieved (drop of liquid level < 60 mm/h).

Features

- **Precise flow control:** Withdraws a controlled portion of tray liquid for side-stream products or recirculation.
- **Minimal disruption to tray efficiency:** Draw sump and weir geometry maintain normal gas/liquid contact on the active tray.
- **Simple, robust construction:** Few moving parts and large openings minimize fouling.

Applications

- Light, intermediate, or heavy side cut withdrawal
- Fractionation requiring multi product recovery
- Control of internal reflux patterns
- Distillation towers
- Absorption and stripping towers
- Solvent recovery systems



Chimney Type

- Wide variety of applications
- Recommended in towers larger than 1000 mm diameter
- Not recommended for redistributing systems
- Offered in two chimney type: rectangular channel and pipe riser, with differnet hat type
- Heavy and high cost

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