

Collector-Vane Type (Lamella)

Product Coding
P13XXXXXX

Introduction

Vane type (Lamella) collector is a high efficiency internal liquid collection device installed inside towers and columns to uniformly collect and direct descending liquid flow while allowing unrestricted upward vapor passage.

The collector consists of a series of inclined parallel vanes arranged in a structured pattern. As liquid impinges on the vane surfaces, it is captured and guided by gravity toward designated liquid collection channels or outlet nozzles, while vapor passes freely through the open spaces between the vanes.

This type of collector offers exceptional gas/liquid disengagement efficiency, minimal pressure drop, and highly stable hydraulic performance. It is especially well suited for high vapor velocity services, foaming systems, and large diameter towers, where conventional collection devices may suffer from entrainment or excessive hydraulic losses.

Features

- **High efficiency liquid collection:** Inclined lamellar vanes ensure rapid liquid capture and controlled drainage.
- **Excellent gas/liquid disengagement:** Reduces entrainment and droplet carryover into upper sections.
- **Very low vapor pressure drop:** Open flow area allows smooth vapor passage with minimal resistance.
- **Uniform liquid routing to draw-off nozzles:** Prevents local flooding and uneven liquid accumulation.
- **High capacity for gas and liquid loads:** Well suited for high throughput and high velocity services.
- **Fouling resistant:** Self draining vane orientation minimizes solids build-up and scaling.
- **Recommendation:** Recommended in towers greater than 760 mm in diameter
- **Location:** Typically installed below packings

