

Liquid Distributor-Reflux Nozzle

Product Coding
P1801XXXXX

Introduction

Reflux nozzle distributor is a top mounted liquid distribution device designed to handle condenser return streams and deliver a uniform, stable reflux flow onto the uppermost tray or packing bed of a distillation column. By calming the inlet momentum and forming a controlled liquid pool behind an inlet weir or seal dam, the distributor ensures smooth liquid entry into the active area of the tower. This optimized liquid distribution enhances mass transfer efficiency, prevents entrainment and splashing, and maintains consistent operation across a wide range of reflux ratios. The design accommodates various tray configurations and supports both single-pass and multi pass systems.

Features

- Controlled liquid calming zone to absorb inlet kinetic energy
- Uniform distribution across the active tray area
- Inlet weir or seal dam design for reliable hydraulic sealing
- Compatible slotted branch inlet configurations
- Low velocity branch and slot design to limit splashing and entrainment
- Integrated vent and drain ports for proper deaeration and drainage
- Suitable for single pass, two pass, and four pass tray arrangements
- Customizable outlet number and area to maintain proper hydraulic balance

Applications

- Top tray liquid distribution in distillation towers
- Reflux return systems from overhead condensers
- Stabilizing inlet flow in rectifying sections
- Enhancing product purity through improved liquid distribution
- Use in refinery, petrochemical, and chemical process columns



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