

Column Tray-Wall Wiper

Product Coding
PXXXXXXXXX

Introduction

Wall wiper is a specialized liquid-management element designed to redirect liquid that migrates from the packed bed toward the column wall back into the active packing. In packed towers, a portion of the downward liquid flow naturally moves outward and runs along the wall surface. If left uncorrected, this liquid bypasses the packing and contributes little to vapor/liquid contact, lowering mass-transfer efficiency. Wall wipers intercept this wall flow and guide it back toward the packing without requiring bed separation, making them an efficient solution for improving distribution uniformity and maintaining optimal column performance.

Features

- Redirects wall flowing liquid back into the packed bed to maintain proper wetting
- Improves mass transfer efficiency by minimizing liquid bypassing
- No packed bed interruption required during installation
- Simple, durable construction suitable for both new columns and revamps
- Helps stabilize hydraulic behavior in small and medium tower diameters
- Low pressure drop impact when properly designed
- Customizable to match tower diameter and packing type

Applications

- Small diameter packed columns where wall effects are more pronounced
- Absorption, stripping, and distillation towers requiring improved liquid distribution
- Towers using packings prone to wall flow, including rings and saddles
- Processes where consistent wetting is essential for mass transfer performance
- Revamps requiring increased efficiency without replacing existing packing



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