

Mixed Phase Distributor-Tangential Inlet**Introduction**

Tangential inlet distributor is engineered to manage high energy vapor or two phase feeds entering vertical columns. By directing the incoming stream tangentially along the vessel wall, it reduces kinetic energy, initiates effective vapor/liquid separation, and ensures uniform flow distribution across the column cross section. Its open-bottom design and carefully arranged internal baffles minimize re-entrainment of liquid while controlling swirling motion, providing stable and efficient operation even under demanding process conditions. This robust solution is ideal for columns where reliable phase separation and feed distribution are critical for column performance.

Applications

- Inlet sections of distillation and absorption columns
- Two phase feed entry requiring initial phase separation
- High energy or flashing feed streams
- Revamp and retrofit projects needing simple and durable inlet solutions
- Systems where stable vapor distribution is critical for downstream performance

Features

- Designed for vertical vessels
- Handles vapor, two phase, and flashing feeds
- Reduces inlet velocity and dissipates kinetic energy
- Initiates primary gas/liquid separation
- Open-bottom construction with tangential feed orientation
- Proprietary baffle arrangement prevents excessive splashing and liquid re-entrainment
- Optional anti-swirl elements to eliminate undesirable cyclonic motion
- Suitable for circular or rectangular inlet nozzles
- Low pressure drop design for efficient column operation

