

Column Tray-HiFi Tray**Product Coding**
P12.....**Introduction**

HiFi trays are high efficiency, specially engineered mass transfer trays designed to deliver superior separation performance in distillation, absorption, and stripping columns.

These trays incorporate an optimized arrangement of flow directing baffles, perforated active areas, and controlled liquid pathways, enabling precise gas/liquid contact while maintaining stable hydraulic behavior.

Compared to conventional tray designs, HiFi trays provide enhanced efficiency per tray, allowing improved separation performance, higher capacity, or reduced column height. Their robust mechanical design and advanced hydraulic configuration make them particularly suitable for revamp projects and high performance new installations where operating margins are tight and reliability is critical.

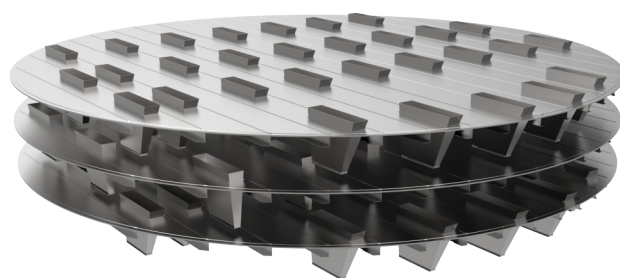
Features

- High mass transfer efficiency through optimized gas/liquid contact
- Special internal baffle geometry for uniform liquid flow distribution
- Reduced liquid back mixing and improved stage efficiency
- Enhanced turndown capability compared to conventional trays
- Stable operation over a wide range of vapor and liquid loads
- Improved resistance to entrainment and weeping
- Designed for high capacity and high severity operation
- Lower number of trays required for a given separation duty

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- Robust mechanical construction suitable for refinery and petrochemical service
- Modular tray panels for installation through column manways
- Fabricated from carbon steel, stainless steel, or special alloys
- Custom designed to meet specific process and column requirements

Applications

- High performance distillation columns
- Absorption and stripping towers
- Refinery fractionation units
- Petrochemical separation columns
- Column revamp projects targeting capacity increase or efficiency improvement
- Services requiring high separation efficiency within limited column height
- Processes operating close to hydraulic or efficiency limits



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