

Liquid Distributor-Equiflow Distributor**Product Coding**
P310107XXX**Introduction**

Equiflow distributor tray is responsible for uniformly distributing the gas/liquid flow across the catalyst bed, ensuring effective utilization of the entire catalyst volume and reducing radial temperature gradients. Whether in up flow or down flow operation, uniform flow distribution is essential for consistent residence time, optimal catalyst utilization, and reduced catalyst deactivation. Under optimal conditions, the flow is controlled in a plug flow pattern to achieve high purity products. In two phase flow, the liquid spreading pattern in the gas or gas diffusion into the liquid plays a key role in the process, and the distributor system must be capable of maintaining uniform performance under varying inlet conditions. Pressure drop must also be controlled to prevent it from becoming a limiting factor for the flow. Uniform distribution is even more critical in high pressure reactors, where minimizing vessel height significantly reduces equipment cost, or in revamp projects, where increased bed capacity requires handling higher inlet flows. The flow is distributed through several distributor nozzles connected to the tray, each operating as a flow restriction by creating a venturi effect.

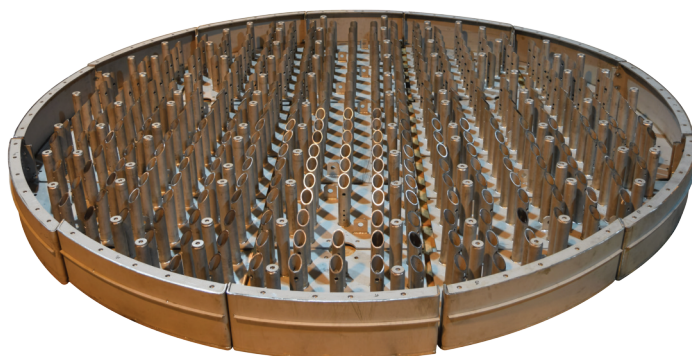
Euroslot Pars conducts a mandatory trial assembly at its workshop, which is documented in a dimensional report to verify compliance with the vessel's as-built data. Furthermore, to ensure strict adherence to all installation requirements, our team will provide on-site technical assistance at the customer's facility.

Features

- Custom design that fits the application or a detailed design as per specification.
- Hydraulic and mechanical design for each process.
- Promotes immediate and uniform irrigation of the entire top surface of the catalyst bed.
- Built from high grade alloys to withstand the reactor's operating temperature, pressure, and corrosive environment.
- Easy installation in a narrow space
- Flexible design based on vessel design

Applications

- Axial and fixed reactors
- Adiabatic reactors
- Multi bed reactors with interstage cooling/heating



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