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Global Dual Flow Tray Market Growth 2026-2032

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Abstracts

The global Dual Flow Tray market size is predicted to grow from US$ 72.00 million in 2025 to US$ 94.25 million in 2032; it is expected to grow at a CAGR of 3.9% from 2026 to 2032.

In 2025, global sales of Dual Flow Trays were approximately 32,000 sets, with an average ex-works selling price of about USD 2,300 per set. Gross margins of major manufacturers were generally around 25%–35%.

A Dual Flow Tray is a gas–liquid mass-transfer internal installed in distillation, absorption and stripping columns. Its main structure is a continuous perforated tray deck without downcomers, outlet weirs or movable valve components. Rising vapor and descending liquid pass countercurrently through the same tray openings. Under the combined effects of vapor momentum and liquid gravity, periodic bubbling, jetting, droplet dispersion and liquid-phase renewal occur around the openings, promoting intensive gas–liquid contact for mass transfer or heat exchange. Since nearly the entire column cross-section can be utilized as an active flow and contacting area, the Dual Flow Tray features a simple structure, large effective mass-transfer area, high processing capacity, relatively low pressure drop, and comparatively low capital and maintenance costs.

A Dual Flow Tray is generally custom-engineered through hydraulic design based on column diameter, vapor and liquid loads, fluid properties and allowable pressure drop. Key design parameters include hole diameter, open area, hole pitch, tray thickness and tray spacing. The tray may use a perforated-plate or grid-type structure and may be fabricated from carbon steel, stainless steel, corrosion-resistant alloys or thermoplastics. Its downcomer-free, valve-free and relatively open construction avoids valve sticking and reduces the risk of downcomer blockage, making it well suited to fouling, polymerizing and solids-containing services. However, because vapor and liquid

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share the same openings, its performance is relatively sensitive to changes in operating load. Weeping may occur at low vapor rates, while entrainment or flooding may occur at high loads. Its operating range is therefore generally narrower than that of conventional valve trays and sieve trays equipped with downcomers.

United States market for Dual Flow Tray is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Dual Flow Tray is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Dual Flow Tray is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Dual Flow Tray players cover Sulzer, Koch-Glitsch, RVT Process Equipment, Amistco Separation Products, RASCHIG, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Dual Flow Tray Industry Forecast” looks at past sales and reviews total world Dual Flow Tray sales in 2025, providing a comprehensive analysis by region and market sector of projected Dual Flow Tray sales for 2026 through 2032. With Dual Flow Tray sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Dual Flow Tray industry.

This Insight Report provides a comprehensive analysis of the global Dual Flow Tray landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Dual Flow Tray portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Dual Flow Tray market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Dual Flow Tray and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and

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quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Dual Flow Tray.

This report presents a comprehensive overview, market shares, and growth opportunities of Dual Flow Tray market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Carbon Steel Type

Stainless Steel Type

Thermoplastic Type

Segmentation by Flow Passage Structure:

Perforated Plate Type

Grid Type

Segmentation by Open Area:

Low Open Area (?15%)

Medium Open Area (>15%–25%)

High Open Area (>25%)

Segmentation by Application:

Refinery Distillation

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Petrochemical Distillation

Chemical Absorption

Process Stripping

Gas Scrubbing

In-column Heat Transfer

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- Sulzer
- Koch-Glitsch
- RVT Process Equipment
- Amistco Separation Products
- RASCHIG

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Manufacturas Petroleras

Munters Group

Distillation Equipment Company

GTI Solutions Korea

SKT Schrupp

Technik Team

AMT International

Amtex Precision

Kuber Precision Tech

Saiptech

Changsha Boneng Technology

Jiangxi Pingxiang Kelong Petrochemical Equipment Packing

Jiangxi Pingxiang Dier Chemical Packing

Key Questions Addressed in this Report

What is the 10-year outlook for the global Dual Flow Tray market?

What factors are driving Dual Flow Tray market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Dual Flow Tray market opportunities vary by end market size?

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How does Dual Flow Tray break out by Type, by Application?

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