RaeX Series – Integrated Chemical & Physical Pretreatment Systems

Modular Pretreatment Systems for High-Efficiency Separation

The **RaeX** series represents Deepflow's complete range of chemical and physical treatment systems designed for high-efficiency clarification, flocculation, and separation of complex industrial wastewater. Each unit is built on a **modular skid platform**, allowing easy transportation, quick installation, and full standalone operation or seamless integration within larger process lines.

RaeX systems are engineered to handle high loads of suspended solids, oils, and emulsified contaminants, optimizing downstream treatment performance. The series includes five main process modules:

- **DJY** – Chemical dosing skid with precise metering and automatic pH control.
- **DPFR** – Pipe flocculation reactor ensuring efficient coagulant mixing and polymer activation.
- **DAF** – Dissolved air flotation unit for effective separation of suspended solids and oils.
- **DGDF** – Gravity flotation system for medium-load effluents.
- **DLC** – Lamella clarifier for compact and continuous sedimentation.

Each RaeX module is designed according to Deepflow's **Plug & Operate** philosophy: pre-assembled, factory-tested, and equipped with intelligent automation to ensure stable performance, minimal commissioning time, and reliable long-term operation. Typical applications include landfill leachate, chemical wastewater, food processing, electroplating, and high-oil industrial effluents.

All units are available in **corrosion-resistant materials**, including **316L stainless steel, FRP, and optional Titanium or Super Duplex 2507** for aggressive chemical environments.

Key Benefits

Feature	Benefit
High-efficiency heat recovery	Minimizes energy consumption per treated ton
Closed-loop operation	Supports ZLD and water reuse targets
Superior distillate purity	Meets stringent discharge/reuse standards
Modular design	Easy to scale and maintain
Corrosion-resistant construction	Ensures long service life in harsh environments