

PLATE AND FRAME HEAT EXCHANGER

Available with Uptime®

PRODUCT APPLICATIONS

- Heating and cooling of process fluids
- Temperature control for chemical reactions
- Heat recovery between hot and cold streams
- Condensation of vapors
- Pasteurization and sterilization heating
- Cooling of viscous or sensitive products
- Economizing boiler feed-water

PRODUCT OVERVIEW

Plate and frame heat exchangers deliver highly efficient heat transfer using a compact, modular design that maximizes surface area while minimizing footprint. Fluids pass through alternating channels created by corrugated plates, producing turbulence that increases heat transfer rates and reduces fouling. These systems handle a wide range of temperatures, pressures, and flow rates while offering easy scalability. Combined with Uptime® and field service support, plate and frame exchangers deliver consistent, high-performing thermal management with simplified maintenance and operational stability. Standard and custom models are available to meet specific process needs.

PRODUCT FEATURES

- High thermal efficiency with close temperature approach
- Compact footprint for space savings
- Fully serviceable plate pack for cleaning and maintenance
- Expandable capacity with easy plate additions
- Wide range of plate materials for corrosive fluids
- Gasketed, semi-welded, welded, or brazed designs
- Configurable flow arrangements for process flexibility



INDUSTRIES

- Food and Beverage Production
- Chemical Processing
- Pharmaceuticals and Biotechnology
- Oil and Gas Processing
- HVAC and Refrigeration
- Power Generation
- Pulp and Paper Manufacturing
- Water Recycling and Heat Recovery Systems



BENEFITS WITH A PLATE AND FRAME HEAT EXCHANGER

High Heat Transfer Efficiency

The design maximizes surface area, allowing rapid heat exchange even with small temperature differences..

Energy and Operating Cost Savings

Efficient performance reduces energy usage, lowering overall operating expenses.

Compact Footprint

The space-saving frame allows installation in tight mechanical rooms and process areas.

Easy Maintenance and Cleaning

Removable plates provide simple access for inspection, cleaning, or gasket replacement.



More Than Data, Diagnostics & Alerts

Uptime® goes beyond diagnostics. Uptime provides pinpoint location of problems and on-demand step-by-step video support for quick fixes right on the production floor.

- **Maintenance Video Library:** Scanning QR codes provides step-by-step video tutorials for maintenance, enabling quick access to troubleshooting and repair guidance on the production floor.
- **Bridging the Knowledge Gap:** Captures and preserves essential knowledge through standardized training and on-demand resources, addressing workforce challenges like retiring employees and skill transfer.
- **Real-Time Monitoring and Alerts:** Enables continuous oversight of equipment performance, minimizing unexpected downtime.
- **Preventative Maintenance:** Supports proactive machine health assessments to prevent issues before they occur, extending equipment lifespan.



- **Remote Accessibility:** With client authorization, Ellis or Ludell securely analyzes and troubleshoots systems remotely, ensuring efficient support from any location.
- **Automated Data Collection, Insights and Reporting:** Collects and analyzes operational data to optimize machine efficiency while facilitating the transfer and analysis of key metrics, such as water and energy usage, to support informed decision-making and conservation efforts.

CONTACT US - LUDELL

Phone: 414-476-9934

Address: 5200 W. State St.
Milwaukee, WI 53208

Website: ellisludell.com

