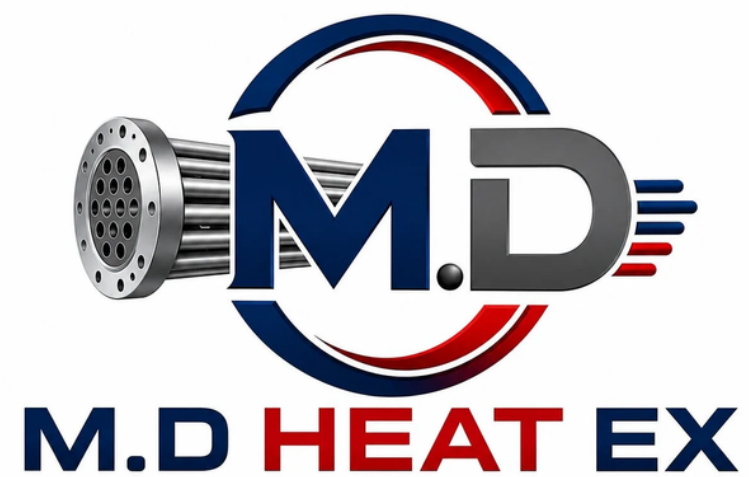
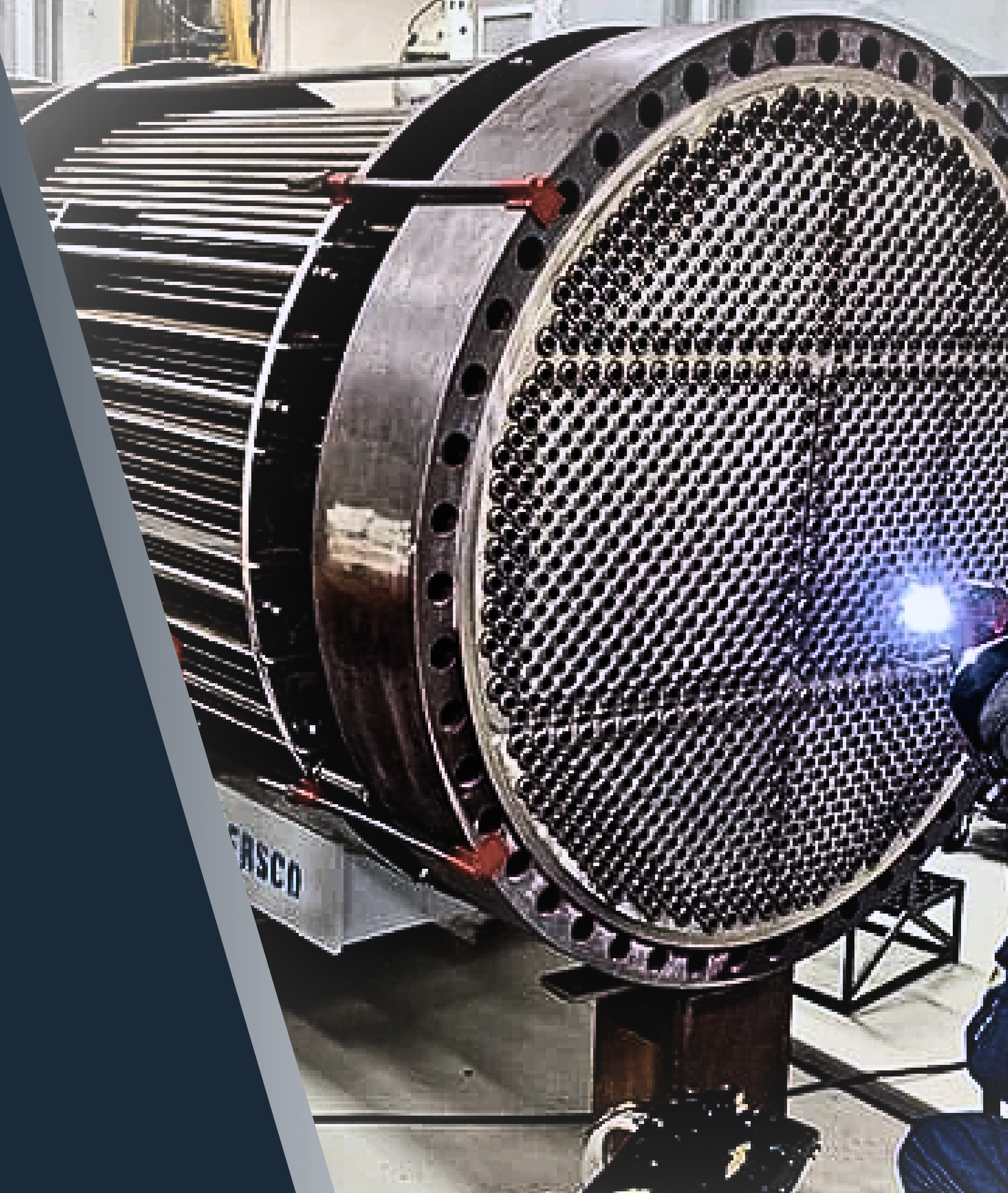




Engineering Thermal Precision for Critical Industrial Processes

Heat Transfer Equipment Manufacturer



WHO WE ARE

About M.D HeatEx

M.D Heat Exchanger is a Ghaziabad-based manufacturer of custom-engineered heat transfer equipment, built on a foundation of thermodynamic precision and certified metallurgical practice. We design and fabricate robust heat exchange solutions for process industries where thermal performance and mechanical integrity are non-negotiable.

- **Engineering-led**

Every unit is sized and configured around the client's actual duty, not a generic catalog spec.

- **Certified materials**

Metallurgy and traceability governed by certified quality systems from raw material to finished shell.

- **Critical-service focus**

Purpose-built for processes where downtime and failure carry real operational and safety cost.



End-To-End

Design → fabrication → testing → dispatch, under one roof



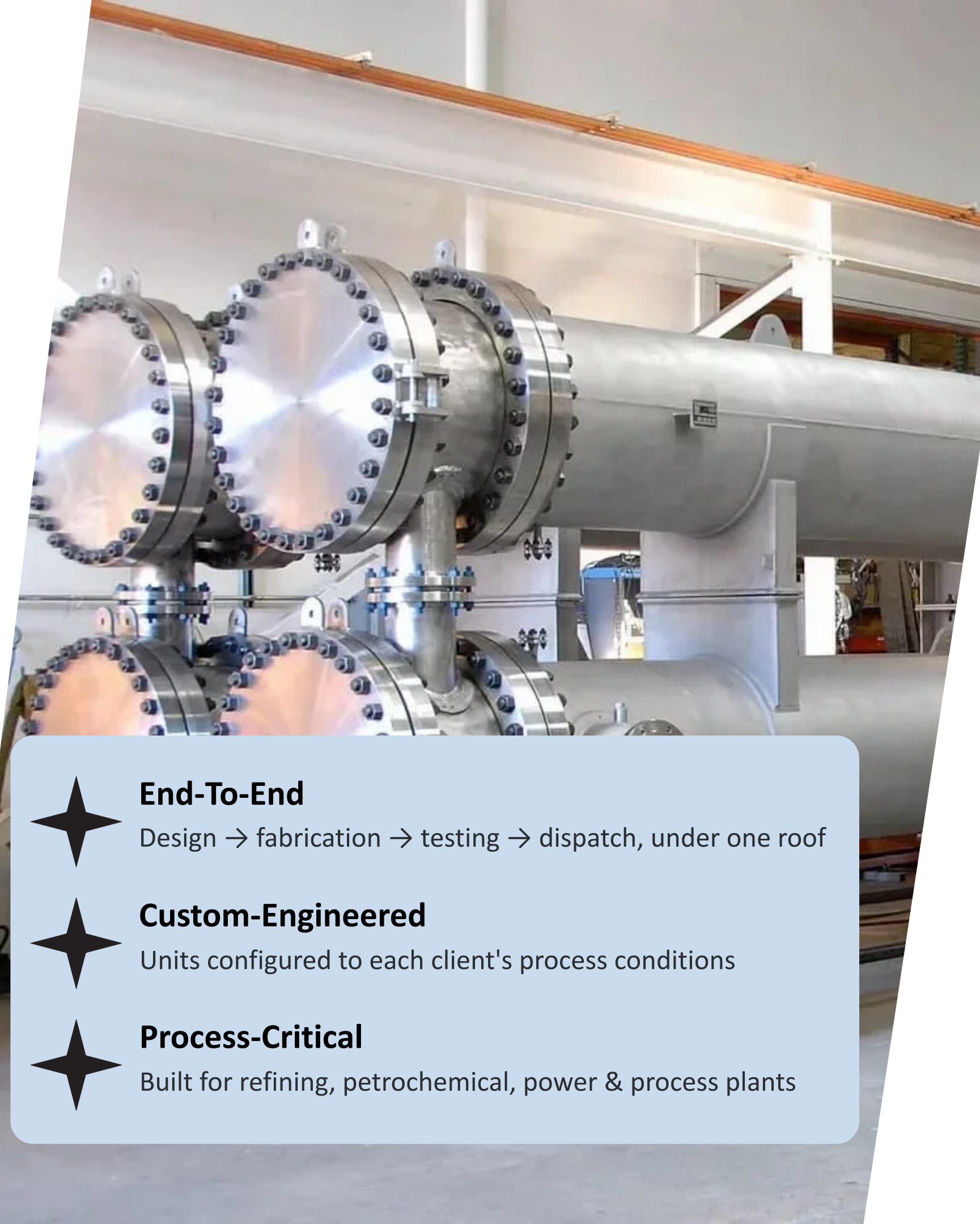
Custom-Engineered

Units configured to each client's process conditions



Process-Critical

Built for refining, petrochemical, power & process plants



Thermodynamic Precision. Certified Metallurgy.



Thermodynamic Precision

Heat duty, pressure drop, flow velocity and fouling margins are calculated and validated for each unit — not approximated from a standard range.



Certified Metallurgy

Material grade, mill test certificates and traceability are verified against process chemistry, temperature and pressure before fabrication begins.



Engineered for Critical Service

Units are built for processes where reliability is the specification — refineries, chemical plants, and power generation.

Core Engineering Capabilities



Thermal Design & Engineering

Process-driven sizing and simulation for each duty and service condition.



Precision Fabrication & Welding

Skilled welding and shell/tube assembly under controlled procedures.



Material Certification & Traceability

Verified mill test certificates from raw material through to finished component.



Hydrostatic & Performance Testing

Pressure testing and inspection prior to dispatch of every unit.



Custom Engineering to Spec

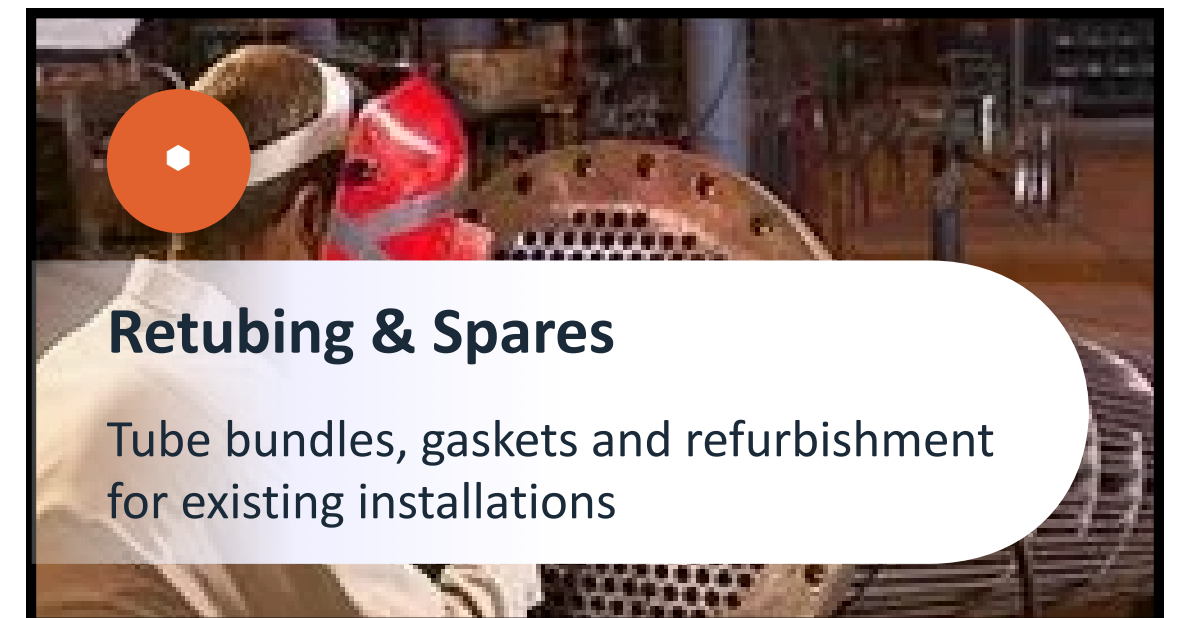
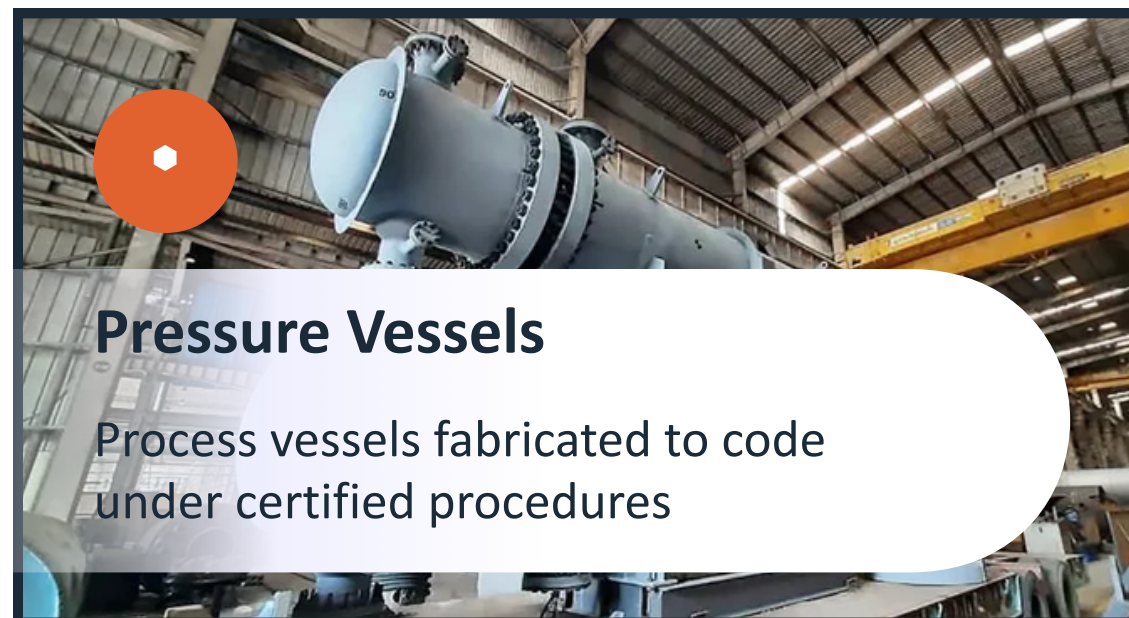
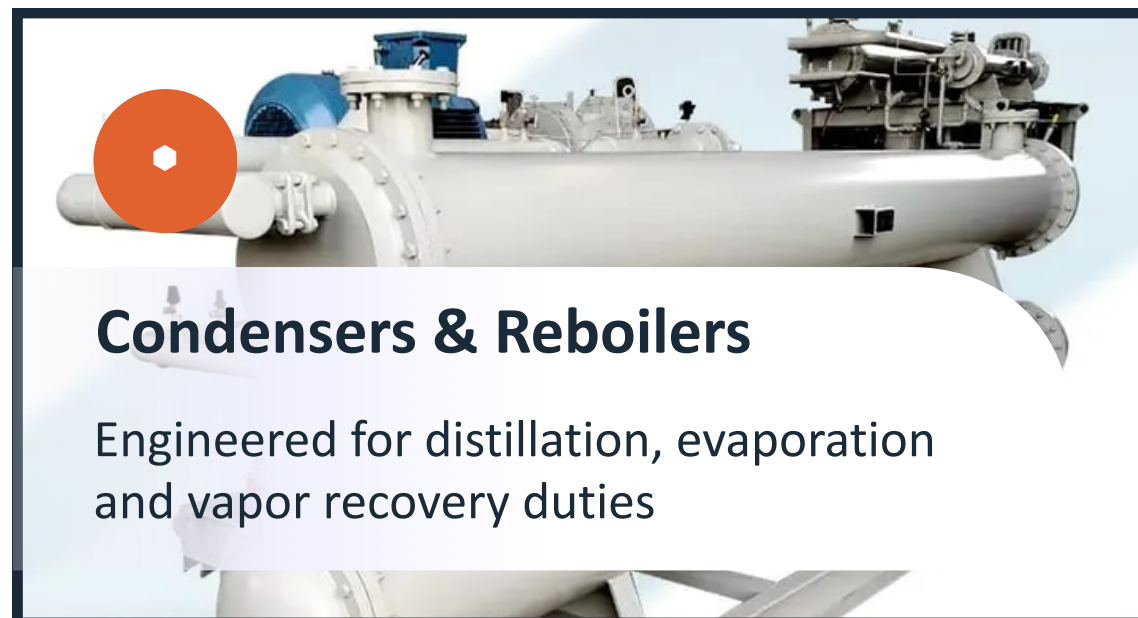
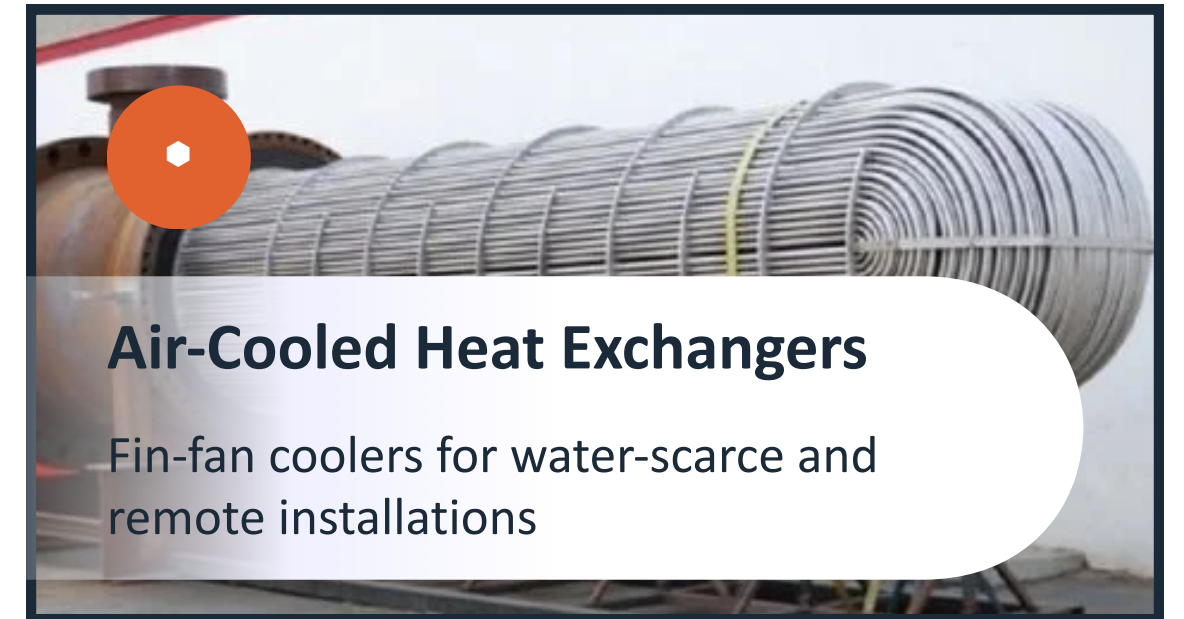
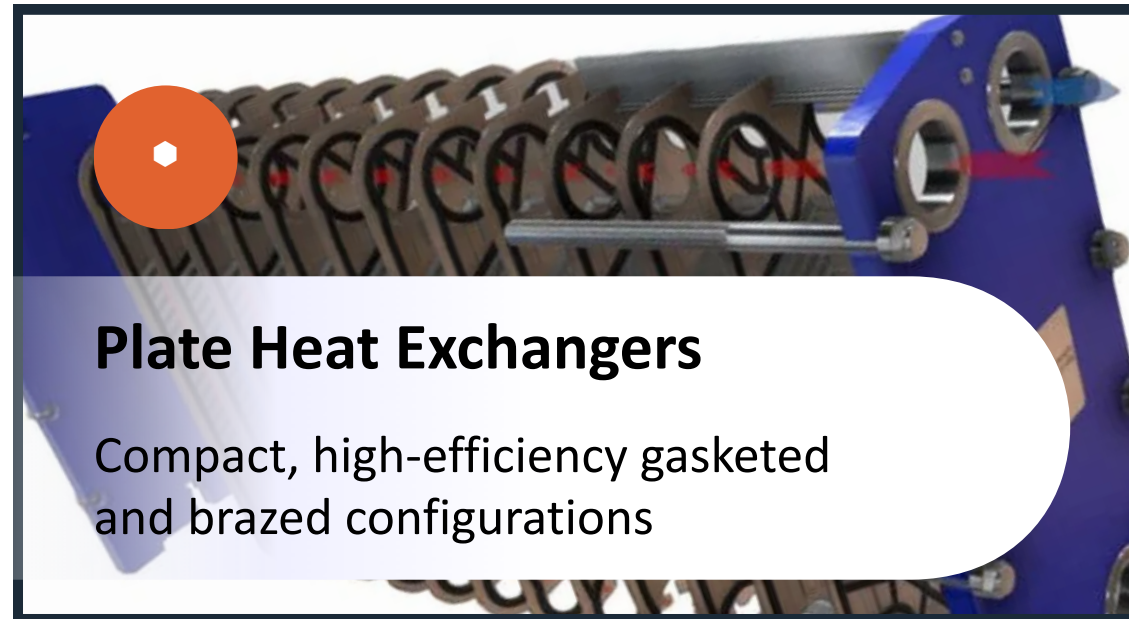
Units configured to client-specific process, space and code requirements.



After-Sales & Spares Support

Retubing, refurbishment and spares support across the equipment lifecycle.

Product Portfolio



FEATURED PRODUCT

Shell & Tube Heat Exchangers

Our shell & tube exchangers are configured around the client's specific heat duty, pressure class and fouling characteristics - covering fixed tubesheet, U-tube and floating head designs for coolers, heaters, condensers and reboilers.

- Fixed tubesheet, U-tube & floating head configurations
- Design and fabrication aligned to recognized pressure-vessel codes
- Wide range of materials of construction to suit process chemistry
- Engineered tube bundles for efficient thermal performance



Tube-side inlet/outlet with shell-side baffled flow

Plate & Air-Cooled Heat Exchangers

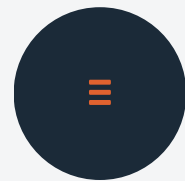


Plate Heat Exchangers

Compact, gasketed and brazed plate configurations deliver high thermal efficiency in a reduced footprint - well suited to duties where space and rapid heat exchange matter.

- High heat-transfer efficiency in a compact frame
- Easy inspection & maintenance access
- Configurable plate count for evolving duties



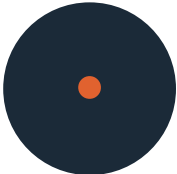
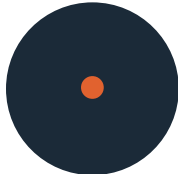
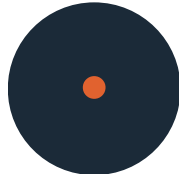
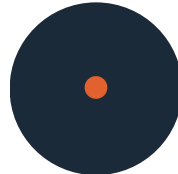
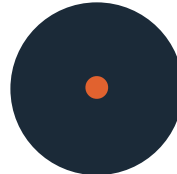
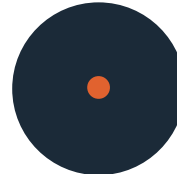
Air-Cooled Heat Exchangers

Fin-fan coolers remove the dependency on cooling water — ideal for remote sites, water-scarce regions, and processes needing dependable ambient-air cooling.

- No process cooling-water dependency
- Suited to remote & water-scarce sites
- Engineered fin-tube bundles for airflow efficiency

Materials Engineered to Process Conditions

Material of construction is selected to match each process's chemistry, pressure and temperature - with certified mill test certificates and full traceability carried from incoming raw material through to the finished component.

					
Carbon Steel	Stainless Steel 304/316	Duplex & Super Duplex	Titanium	Copper & Copper Alloys	Nickel Alloys

Every material batch is verified against its certificate before release to fabrication, ensuring the finished exchanger matches its design basis exactly.

Manufacturing & Quality Process



Quality Framework

Manufacturing and quality practices are structured around recognized pressure-equipment codes and quality-management principles — covering design review, certified welding procedures, material traceability and pre-dispatch testing.

Note: exact certifications, code stamps and accreditations should be confirmed against MD HeatEx's current certificates for use in client-facing material.



Design Review & Verification



Certified Welding Procedures



Material Traceability (MTC)



Non-Destructive Testing (NDT)



Hydrostatic Pressure Testing



Final Inspection & Documentation

Industries Served



Oil & Gas / Refining



Petrochemicals



Power Generation



Fertilizers



Chemical Processing



Pharmaceuticals



Let's Engineer Your Next Solution

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