

## CAPABILITY SHEET

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## Shell-and-tube, air-cooled, and plate-and-frame heat exchanger services

MAC Industrial provides comprehensive heat exchanger maintenance and repair services for refining, chemical, and industrial power clients. Our crews execute bundle pulls, tube inspections, tube plugging, and full re-tubing scopes in compliance with ASME Section VIII and TEMA standards, with full NDE support.

- Shell-and-tube bundle extraction and reinstallation
- Eddy current, IRIS, and remote field tube inspection
- Tube plugging per TEMA (maximum 10% or per spec)
- Full re-tubing with U-tube and straight tube configurations
- Air-cooled (fin-fan) bundle repair and re-finishing
- Plate-and-frame gasket replacement and cleaning
- Pressure testing and leak repair
- Inspection report and fitness-for-service documentation

- ASME Section VIII Div. 1 — Pressure Vessels
- TEMA — Tubular Exchanger Manufacturers Association
- API 510 — Pressure Vessel Inspection Code
- ASME PCC-2 — Repair of Pressure Equipment