

# Heat Exchanger Services

DIALOG Fitzroy delivers over 60 years of specialist engineering, fabrication, and lifecycle support for heat exchangers across Australia, New Zealand and surrounding countries. From new builds to refurbishment and performance optimisation, our heat exchangers are engineered for maximum energy efficiency, durability, and versatility—helping you reduce operating costs and meet sustainability goals without compromise.



DIALOG  
Fitzroy

## Design and Construction

Engineering

Project Management

Construction

## Fabrication

Pressure Vessels

Pipe Spooling

Tanks

Heat Exchangers

Structural Steel

## Maintenance Services

Mechanical Services

Tanks and Terminals

Plant Turnarounds

Industrial Coatings

Scaffolding and Access

Rigging and Cranage

Precision Machining

# Delivering Comprehensive Heat Exchanger Solutions

Our expertise spans oil & gas, chemicals, energy, pharmaceuticals, dairy, clean energy, and infrastructure. Whether you need a compact, high-performance design, a customised solution for demanding conditions or refurbishment of a single tube plugged or partial/full retube, DIALOG Fitzroy combines engineering excellence with a commitment to quality—ensuring your operations stay dependable and future-ready. We are tools ready to mobilise to your site or receive your asset in our workshop.



## Maintenance & Refurbishment

- ▶ Integrity inspections on site or in our workshop i.e. Visual, Iris testing, Phased Array, Eddy Current, MPI / Penetrant, UT
- ▶ Site removal and installation, isolations
- ▶ Tube extraction, cutting, and plugging with Expansion Seal Technologies (Pop-A-Plug)
- ▶ Bundle pulling with 25 tonne aerial puller, remote controlled for safe operation
- ▶ Hydrostatic, and helium leak testing up to 760 bar
- ▶ Vacuum testing – tube and tube to tube sheet
- ▶ On site machining: flange facing, milling, seal groove preparation
- ▶ Protective coatings and preservation services inert purging



## Design & Engineering

- ▶ Thermal modelling and duty evaluation with Aspen HYSYS/EDR
- ▶ Mechanical integrity analysis using PV Elite and Nozzle Pro
- ▶ Bespoke drawings and datasheets aligned to project requirements
- ▶ Fit for purpose designs for new builds, retrofits, and upgrades
- ▶ Designs optimised for efficiency, durability, and compliance.

End to End Solutions

# Heat Exchanger Services



## Fabrication

- ▶ Shell & tube fabrication including Fixed / floating head, U-tube bundles
- ▶ Air Coolers / Fin-Fan Coolers (ACHE)
- ▶ Tube bundle replacement and redesign to current standards
- ▶ Orbimatic semi automatic welding for repeatable precision
- ▶ Parallel roll and hydraulic expansion systems for accuracy and speed
- ▶ Inhouse machining of tube sheets and baffles
- ▶ **Materials expertise:** carbon steels, chrome moly, aluminium, duplex & SAF, clad plate, stainless steels, and exotics

**Design and Built to  
Codes including:**

- ▶ ASME VIII
- ▶ AS1210
- ▶ PD5500
- ▶ TEMA

## Applications

Our exchangers are deployed across a wide range of processes:

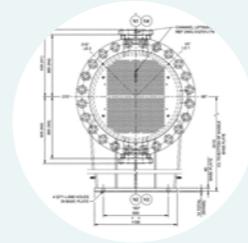
- ▶ Aftercoolers & Intercoolers
- ▶ Evaporators & Condensers
- ▶ Driers & Calorifiers
- ▶ Reboilers & Pasteurisers
- ▶ Exhaust Gas Coolers
- ▶ Enhanced Tube Heat Exchangers



## Why Partner with DIALOG Fitzroy?

- ▶ End to end lifecycle expertise — design through maintenance
- ▶ On and offsite heat exchanger and fin fan cooler remediations
- ▶ Proven record with over 200 exchangers fabricated
- ▶ Strong focus on safety, reliability, and long-term performance
- ▶ Facilities designed for largescale, complex fabrication projects

## Recent Heat Exchange Projects



### Design

End to end engineering, design and fabrication of a shell and tube heat exchanger used in a mining facility.



### Fabrication

Fabrication of a gas heat exchanger for a natural gas processing plant.



Fabrication of a hot oil cooler bundle for a petro-chemical plant. Fabricated on guide rails for ease of access, improved material handling and exposure to hard to reach work areas.



### Refurbishment

Maintenance, reboring and tube replacement of a heat exchanger for a gas processing plant.



▶ [www.dialogfitzroy.com/contact-us/](http://www.dialogfitzroy.com/contact-us/)

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