Fluid Dynamics

Heat Exchange Solutions since 1981

Capability Presentation

ISO 9001 certified
Equal Assurance

Date: 05/03/2025

Capability

Fluid Dynamics Pty Ltd, an Australian owned and operated company specialising in heat exchangers since 1981, is certified ISO 9001:2015 and can design and verify to most compliance standards including:

API 661 norms; AS1210; ASME 'U' Stamp; PED etc..

In over 40 years of operation Fluid Dynamics has built an enviable reputation for being able to design, manufacture, supply, re-engineer, refurbish, clean and test a huge range of heat exchangers at its fully equipped facility.

We carry a large range of stock and equipment for even the most complicated of projects with our product range being constantly extended and updated to include the latest designs.

As we are not tied to any single brand, we are completely unrestrained in what solutions we can offer – the best solution that suits our customers, not the 'solution' that suits the supplier

Our unique business model allows us to supply both OEM and aftermarket heat exchangers with custom designs, modifications, refurbishment, parts and service for almost any type of heat exchanger to suit our customers needs. Fluid Dynamics will always offer the best solution and the best quality at very competitive pricing - all backed up by a proud Australian company specialising in heat exchangers

Heat Transfer

Fluid Dynamics
Heat Exchange Solutions since 1981

Fluid Dynamics has remained at the forefront of heat exchanger technologies since 1981.
From our base in Melbourne, we offer the following services to our very broad customer base:.

- Fabrication & Service Facility
- Ultrasonic Cleaning System
- In House Inspection and Testing
- Design, Sales and Service for new, replacement & rebuild of all heat exchangers
- Accreditation to ISO 9001 SAI Global
- Site Installation Capability
- Site Inspection
- Strategic supply partners to enhance our own manufactured heat exchanger technologies
- Waste Heat Recovery
  Heat Recovery Consultancy

Fluid Dynamics
Heat Exchange Solutions since 1981

Factory & Facilities

We have a dedicated team of fitters, welders and in house service technicians who know what is needed when it comes to your heat exchangers.

With Fluid Dynamics your heat exchangers are in good hands.

When we receive your unit, our team will : -

- Carry out initial inspection and detail findings
- Pre-clean the heat exchanger if required
- Carry out a preliminary pressure test and further assess the unit
- If instructed, contact you to discuss all findings in detail and advise our recommendations and what corrective actions should be taken.
- If instructed, clean the heat exchanger using our advanced ultrasonic cleaning system
- Fully refurbish and bring the unit back to sound operational condition on all parts
- Carry out final assembly; replace all seals and parts as required; carry out final pressure test and a close inspection. Document all findings and results are put into our final report.
- Finally, your unit will be dried, painted if instructed, packed and made ready for delivery.

Fluid Dynamics
Heat Exchange Solutions since 1981

Most Types of Heat Exchangers

including:

- Finned Tube
- Shell & Tube
- Scraped Surface
- Gasketed Plate
- Double Wall Plate & Tubes
- Semi Welded Plate
- Fully Welded Plate
- Brazed Plate
- Aluminium Radiators
- Finned Coil
- Finned Tube
- Air Cooled Condensers
- Corrugated Tube
- Diffusion Bonded
- Printed Circuit
- Custom Build

Fluid Dynamics
Heat Exchange Solutions since 1981

Heat Exchanger Industries Served

including:

- **Power & Energy**
- **Coal, Oil & Gas**
- **Food**
- **Dairy**
- **Beverage / Brewery / Winery**
- **Pharmaceutical**
- **Refrigeration**
- **Marine**
- **Water & Wastewater**
- **Mineral & Mining**
- **Chemical**
- **Petrochemical**
- **HVAC**
- **Off & On Road**
- **General Process**

Fluid Dynamics
Heat Exchange Solutions since 1981

Heat Exchange for following Processes

including:

- **Hydrogen**
- **Energy**
- **Carbon Capture**
- **LNG**
- **Oil & Gas**
- **Intercooling**
- **After Cooling**
- **Flue Gas Cooling**
- **Waste Heat Recovery**
- **Desublimation**
- **Steam**
- **Lean Amine**
- **Biogas**
- **Air**

Fluid Dynamics
Heat Exchange Solutions since 1981

What Heat Transfer Application are you looking for?

- Heating
- Cooling
- Regeneration
- Pastuerisation
- Desuperheating
- 2 Stage Heating / Cooling
- Waste Heat / Energy Recovery
- Condensate Recovery
- Exhaust Gas Heat Recovery
- Evaporation
- Condensing

- **Fluid Dynamics**

If your application is not listed, then please ask.

Fluid Dynamics
Heat Exchange Solutions since 1981

Gasketed Plate Heat Exchangers

OEM or our own FluidEX® Range

Wide range
Modern / Efficient

Industrial
Painted frames

Hygienic
All stainless-steel frames

Plate Materials
316, 304, Titanium, Hastelloy, Inconel, etc.

Gasket Materials
HT NBR, HT EDPM, HNBR, Viton

Capacity
1m³/h to 4,500m³/h

25bar
Max working pressure

Operating Temps
-20°C to +190°C

Standard Connections
DN25 to DN500

Hygienic Dairy Fittings
Connections
1" to 6"

Fluid Dynamics
Heat Exchange Solutions since 1981

FluidEX®
HEAT EXCHANGERS

Plate Heat Exchangers Spares & Service

- Fluid Dynamics supplies high quality Plates & Gaskets for most models including:

APV/SPX, *Alfa Laval*, FluidEX, GEA, *Vicarb*, *Mueller*, *Sondex*, *Tranter*, *Hisaka*, *Reheat*, *HRS*, *Sepak*, *AHTT*, *API Schmidt Bretton*, *Arsopi*, *Barriquand*, *Fischer*, *Funke*, *SWEP…*

- On-site service, gas testing and maintenance of your PHE units
- In-house cleaning and crack detection of plate packs
- Ultrasonic cleaning system for plates and associated components
- In-house refurbishment and rebuilding of plate heat exchangers
- Redesign and design changes for most ranges possible
- Swap out frames for many sizes with minimal modifications required
- Flexibility to offer tailored service and spares solutions to meet specific requirements and needs

Fluid Dynamics
Heat Exchange Solutions since 1981

Fully Welded Heat Exchangers

SUITABLE FOR A WIDE RANGE OF APPLICATIONS

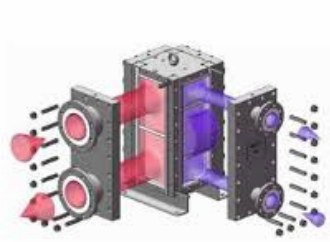
GAS TO LIQUID
OR
GAS TO GAS

ALUMINA SLURRIES OR SIMILAR PROCESSES, ELUATES ETC.

HAZARDOUS FLUIDS – CHEMICALS AND PETROCHEMICAL

HIGH PRESSURE APPLICATIONS, VAPOURS AND REFRIGERANTS

REFRIGERATION AND CO_2



Fluid Dynamics
Heat Exchange Solutions since 1981

FluidEX® Brazed Plate Heat Exchangers

Very large range
Suit almost any application.

Brazing
Copper or Nickel

Very compact
High Thermal Efficiency.

Easy Installation

Long life
Proven
Durability & Reliability

Corrosion Resistant
available

Materials
316L, SMO254 plates, Cu & Ni Brazing

Twin Wall
Safety Plates
available

Dedicated Oil Coolers
(DOC)

Fluid Dynamics
Heat Exchange Solutions since 1981

Pumps & Valves

Fluid Dynamics provides sales and service for a wide range of pumps and valves used in modern production facilities supported by our experts who are on hand to provide service, spares and support to ensure efficiency and performance from all your equipment.

- Service, Repairs, Overhauls, Refurbishment on site or off
- Maintenance - General & Planned
- Plant Obsolescence Management
- Rotating & Spare Parts Replacement
- Plant Monitoring
- Training
- Sales

Valves

Single and Double Seat Seal • Ball • Butterfly • Check • Mixproof

Pumps

Positive Displacement • Centrifugal • High Pressure • Lobe

Fluid Dynamics
Heat Exchange Solutions since 1981

Homogenisers & Buttermaker's

Fluid Dynamics now offers expert onsite servicing of Homogenisers and Buttermaker's and other similar equipment - Australia-wide.

Contact Fluid Dynamics' and have our team of expert service technicians provide annual wet-end servicing of all Homogenisers and Buttermaker's including drive-end inspection and oil and oil filter replacement.

Services

- Service, Repairs, Overhauls, Refurbishment on site
- Maintenance - General & Planned
- Rotating & Spares Replacement
- Plant Management
- Plant Monitoring
- Training
- Sales

HRS Heat Exchangers

- Fluid Dynamics is proud to be the sole partner for HRS Heat Exchangers covering Australia and New Zealand.

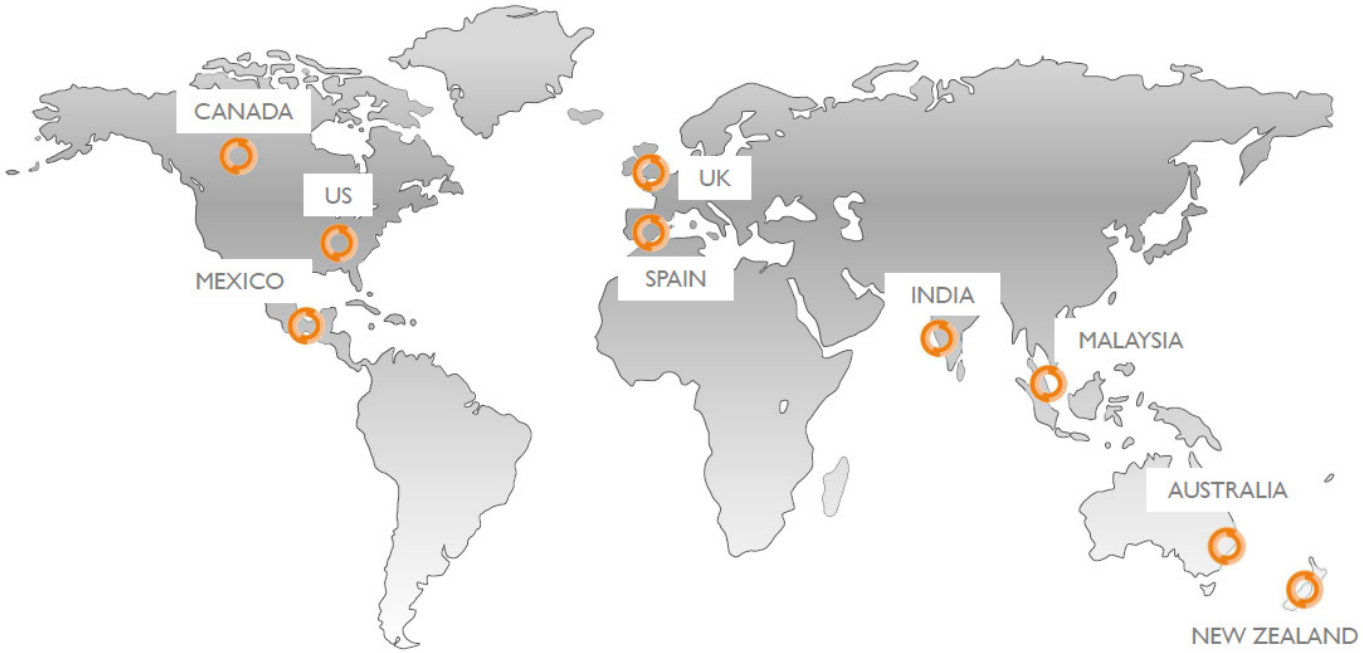
- The following 8 slides, provides a window into the products and services we can deliver to our customers across all industries

Fluid Dynamics
Heat Exchange Solutions since 1981

HRS heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

HRS GLOBAL SALES LOCATIONS



HRS heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

APPLICATIONS

ENVIRONMENTAL

FOOD & BEVERAGE

PHARMACEUTICAL

INDUSTRIAL

HRS heat exchangers

Fluid Dynamics
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Applications / Environmental

Anaerobic Digestion (AD) & Biogas
Biodiesel
Bioethanol
Evaporation & Concentration of environmental waste streams
Sludge Pasteurisation
Sewage Treatment
Wastewater
ZLD (Zero Liquid Discharge)

Applications / Food & Beverage

Beverages
Dairy
Fruit
Plant Based
Prepared Foods
Soups & Sauces
Vegetable
Oils

Applications / Industrial

Fine Chemicals
Palm Oil
Petrochemicals
Process Water
Solvents

Applications / Pharmaceutical

WFI
Creams
Gels
Balms
Lotions
Waxes

HRS heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

PRODUCTS | HEAT EXCHANGERS

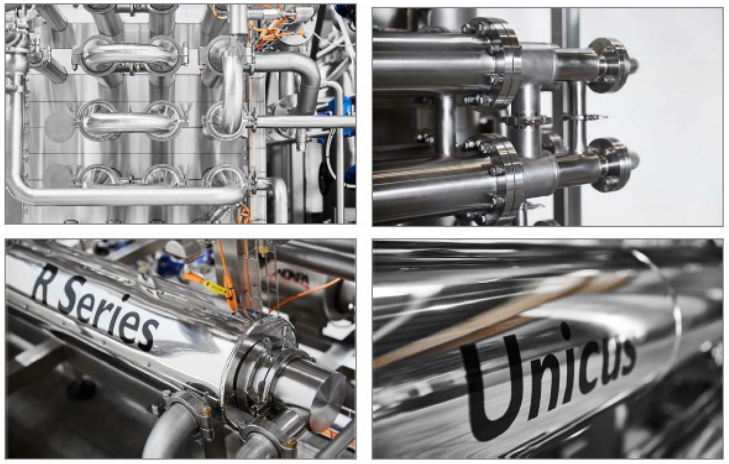
Double Tube Heat Exchangers

Multi Tube Heat Exchangers

Annular Space Heat Exchangers

Scraped Surface Heat Exchangers

Plate Heat Exchangers



HRS heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

PRODUCTS | SYSTEMS

ENVIRONMENTAL SYSTEMS

Biogas Dehumidification Systems (BDS)

Concentration & Evaporation

Digestate Pasteurisation for Renewable Energy (DPS)

Concentration of Environmental Waste for Renewable Energy (DCS)

Zero Liquid Discharge (ZLD)

HRS heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

PRODUCTS | SYSTEMS

FOOD SYSTEMS

Pasteurisers/Sterilisers

Cleaning-In-Place & Sterilise-In-Place

Concentration and Evaporation Systems

DSI (Direct Steam Injection)

I Series (Ice Crusher & Re-Melter)

Process Skids

HRS heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

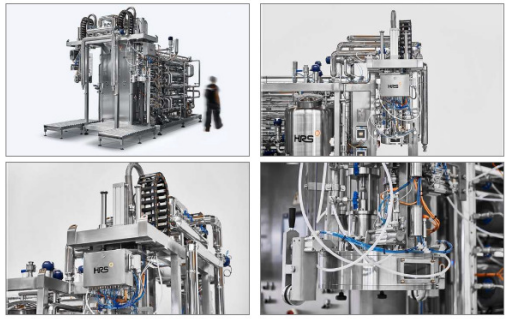
PRODUCTS | PISTON PUMPS

HRS BP Series piston pumps are hydraulically or pneumatically operated positive displacement pumps that transfers mechanical energy to pressure.

PRODUCTS | ASEPTIC FILLERS

Aseptic filling ensures products remain safe, fresh and retain quality for up to twelve months, thus maintaining their taste, colour, texture and the essential nutritional values.

The HRS AF Series is a range of single and dual head aseptic fillers for use with 'bag-in-box' and 'bag-in-drum' type sterile packaging solutions.



Kelvion THERMAL SOLUTIONS

Fluid Dynamics
Heat Exchange Solutions since 1981

Kelvion

Fluid Dynamics
Heat Exchange Solutions since 1981

Diffusion Bonded
Heat Exchanger

Kelvion K°Bond

COMPACTNESS & PERFORMANCE BONDED TOGETHER

DESIGN & FUNCTION

For decades, we have been supplying the oil & gas industry with reliable and efficient heat exchange technology for a wide range of applications. Our broad experience and knowledge of the market has enabled us to develop and enhance our product portfolio with innovations.

K°Bond, Kelvion's diffusion bonded heat exchanger, is ideal for applications involving extreme process temperatures and pressures. Combining design with welding expertise, K°Bond withstands pressures up to 1,000 bar and temperatures from cryogenic -200 to 600 °C, while providing significant savings in weight and footprint compared to common heat exchanger solutions.

K°Bond with its diffusion bonding technology is perhaps one of the most significant and game-changing solutions for projects with restricted space – May it be for offshore plants (e. g. as high pressure vaporizer) and reliquefaction on floating units.

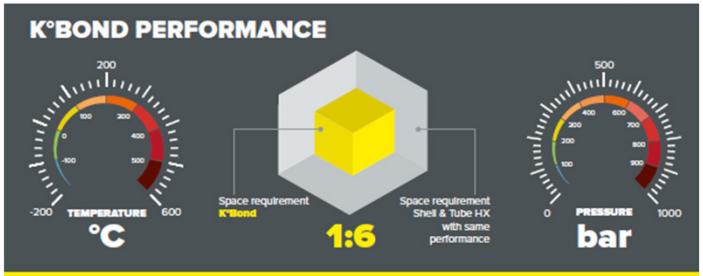
ADVANTAGES

- PRESSURE RESISTANCE UP TO 1000 BAR
- WORKING TEMPERATURE RANGE FROM -200°C TO 600°C
- HIGH HEAT TRANSFER RATE THANKS TO FLUIDS PROXIMITY ALLOWING TEMPERATURE APPROACH UP TO 2°C
- LEAKAGE FREE AND SAFE
- HIGH RESISTANCE TO CYCLIC SERVICES
- UP TO 6 TIMES SMALLER THAN CONVENTIONAL S&T HEAT EXCHANGER

Fluid Dynamics
Heat Exchange Solutions since 1981

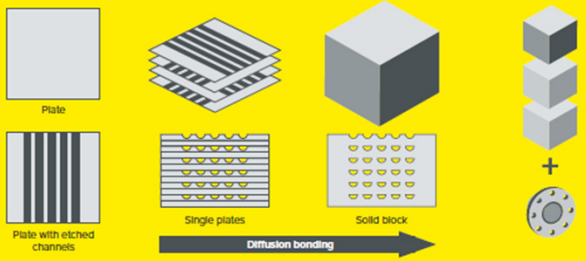
K°BOND APPLICATIONS

K°BOND PERFORMANCE



DIFFUSION BONDING

1. Patterns are designed for each service and chemically etched on stainless steel plates.
2. Etched plates are stacked and welded through diffusion bonding process, converting them into one solid block of metal (core).
3. When required, multiple cores are welded together. Nozzles and headers are welded on cores to form final K°Bond.



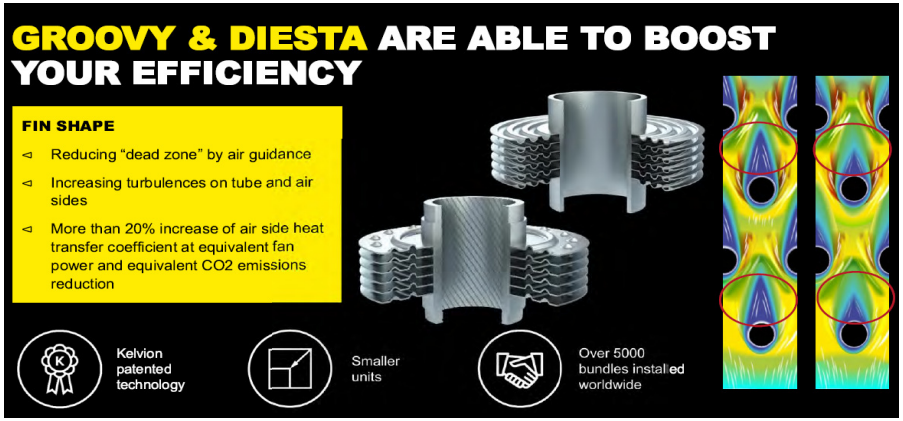
Optimized in-house design software

Available in stainless steel 304L & 316L

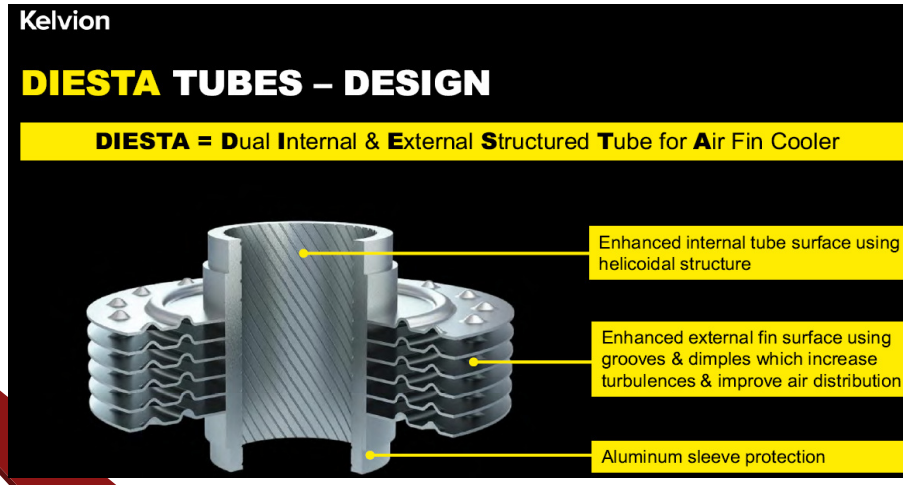
Designed as per ASME rules, CE-marked and / or U-stamped

Kelvion THERMAL SOLUTIONS

Fluid Dynamics
Heat Exchange Solutions since 1981



A more detailed presentation on the Groovy and Diesta is available on request



Kelvion THERMAL SOLUTIONS

Fluid Dynamics
Heat Exchange Solutions since 1981

AFC FORCED DRAFT

AFC INDUCED DRAFT

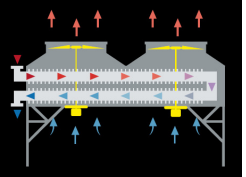
Kelvion

KEY FACTORS OF AIR FIN COOLER PERFORMANCE

FAN POWER CONSUMPTION | TUBES & FINS | PLOT SIZE | AMBIENT CONDITIONS

Kelvion

AIR FIN COOLER



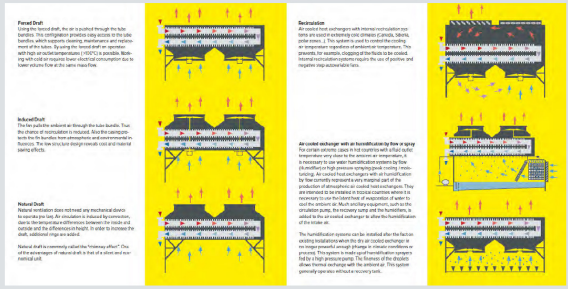
OUR EXPERIENCE

- 15 PATENTS SINCE 2007
- OVER 120,000 TUBE BUNDLES SOLD SINCE THE 1970'S
- FIRST AIR FIN COOLER INSTALLED IN 1927

WORKING PRINCIPLE

- Working Fluid / Refrigerant flows inside the tubes
- Ambient Air is forced / induced through tube bundles

MULTIPLE AFC DESIGNS



Kelvion THERMAL SOLUTIONS

Fluid Dynamics
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Kelvion

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Victoria 3803 Australia
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Int'l: +61 3 8786 4900
E:sales@fluiddynamics.com.au
W: www.fluiddynamics.com.au

Kelvion Thermal Solutions for

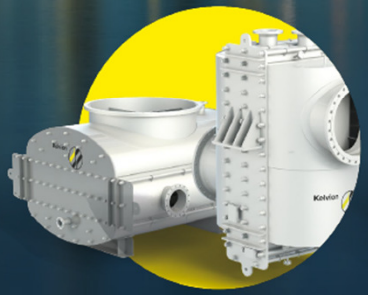
CARBON CAPTURE & STORAGE

FLUE GAS COOLING

Rekuluvo/Rekugavo
Flue Gas Cooling

AMINE CO_2 REMOVAL SYSTEMS

Air Fin Cooler
Lean amine cooler



K°Flex
Thermosyphon Reboiler

CCS BY DESUBLIMATION

Desublimators
Direct exhaust gas capture

CCS ABSORBER

Cooling Tower
Direct air capture

Kelvion THERMAL SOLUTIONS

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Cooling solutions for the entire value chain of

HYDROGEN

PRODUCTION & PRODUCTION UPSCALING

Air Fin Coolers
High performance tube technology

Cooling Towers
Smallest footprint

Desublimators
Unique technology for carbon capture

Heat recovery
Wide range & experience

DISTRIBUTION

K°Bond
Diffusion bonded heat exchanger with highest pressure resistance

INTEGRATED SOLUTIONS & UTILIZATION (FUEL CELLS)

Customized and integrated solutions beyond heat exchangers

Fluid Dynamics
Heat Exchange Solutions since 1981

Bar and Plate (Aluminium & Copper)

- Large stock of components carried at all times
- Ability to custom build to just about any size
- Aftermarket units are a specialty – quicker, cheaper and stronger than OEM
- Replacement / Renewal of existing core
- Cooling systems can be fitted with 12v/24v DC, 3 phase hydraulic and Pneumatic motors,
- Shrouds, mounting base, stone guards can also be supplied
- BSP port sizes and locations are fitted to individual requirements
- High performance for heavy duty hydraulic and lubricating applications
- Maximum working pressure 26bar
- Service, Testing, Repair and Ultrasonic Cleaning
- Serving all industry sectors

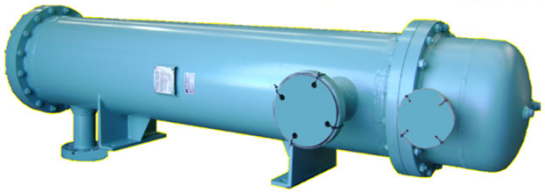
Fluid Dynamics
Heat Exchange Solutions since 1981

Oil Cooler Solutions

Fluid Dynamics is your one stop solution for automotive and industrial oil coolers

Fluid Dynamics is an Australian owned and operated company specialising in a wide range of heat exchangers.

- Full service for oil coolers including ultrasonic cleaning, testing, repair re-engineer and replacement.
- Large range of stock and equipment for even the most complicated projects.
- Supply of OEM and aftermarket oil coolers ensuring the best solution, the best quality, and very competitive pricing.



Fluid Dynamics - for all your oil cooler needs

Fluid Dynamics
Heat Exchange Solutions since 1981

Coil & Finned Tube Heat Exchangers

All industries served to the highest standards

All types of Coils & Finned Tube units designed & manufactured to all major industrial standards.

Dry coolers – single through to multi core, multi fan, condensers and adiabatic coolers

All materials available including carbon steel tubes and fins, Cu tube and fin or Ali fin, CuNi tubes and stainless or Ali fin, stainless tube and fin

Round tubes, elliptical tubes, compact fin, single fin, spiral fin, rectangular fin

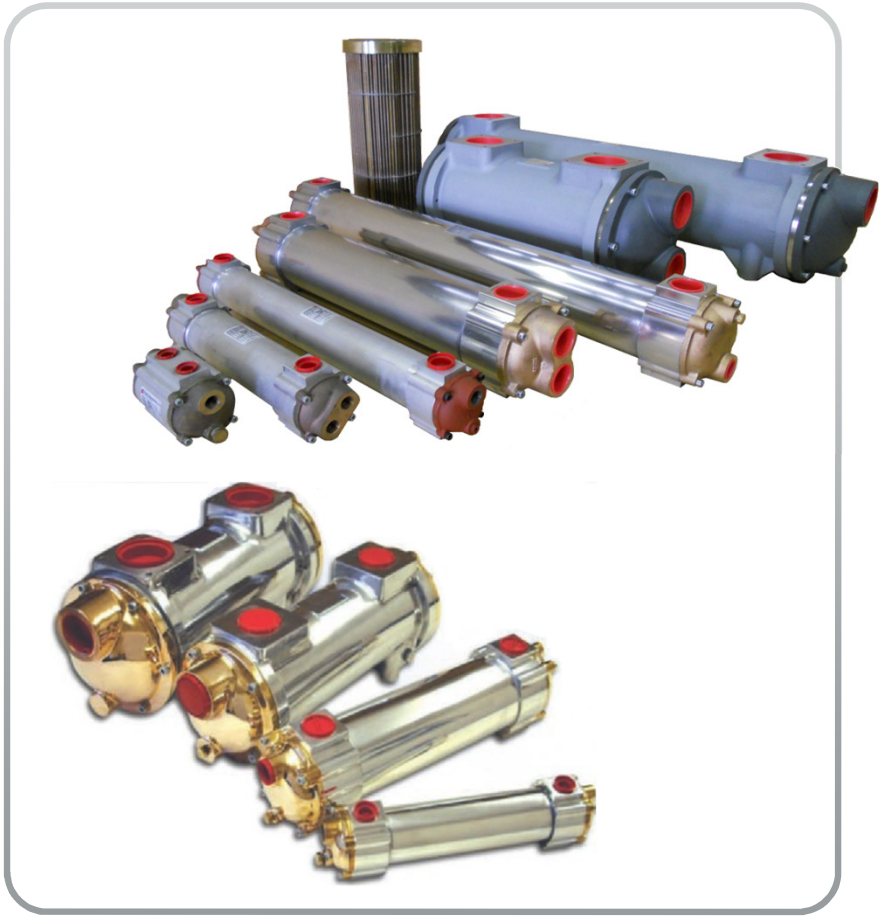
Special coatings applied to all coil units where required

FluidEX®

Fluid Dynamics
Heat Exchange Solutions since 1981

Shell & Tube (off the shelf)

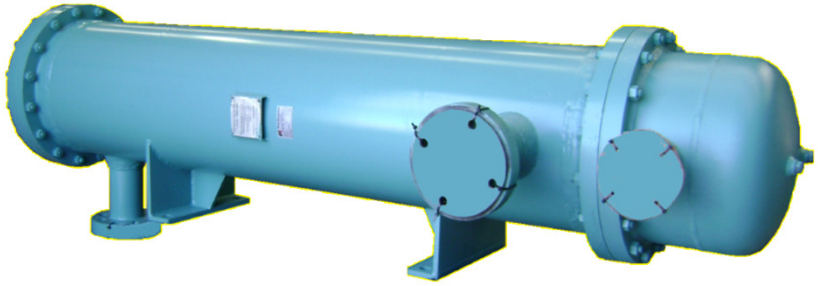
- Fluid Dynamics has been synonymous with shell and tube heat exchangers for over 40 years
- One of Australia's largest Stockists of shell & tube oil coolers, Custom Build, transmission oil coolers & water to water coolers. Most standard ranges are available ex stock
- We offer a full range of services including like for like replacements, new units, repairs, testing, service and ultrasonic cleaning, new tube bundles, repairs to existing tube bundles and re-tubing. All carried out in our well-equipped Hallam factory
- Ideal for many applications – marine, industrial, on-road & off-road etc.



Fluid Dynamics
Heat Exchange Solutions since 1981

Shell & Tube-Custom Build

- One our key strengths is our ability to design, re-engineer, manufacture, refurbish, test, clean & and repair all types and sizes of shell and tube heat exchangers
- We provide heat exchangers for all applications
- Built to the highest standards and using the best quality materials
- We can provide new tube stacks built to exact standards to fit into your existing shell as well as manufacture the entire shell and tube exchanger

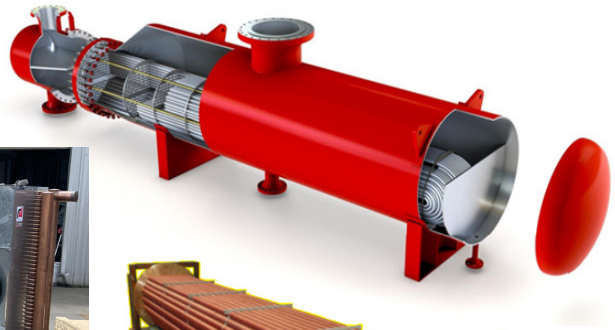


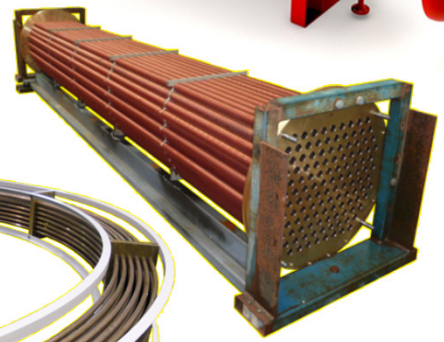
Fluid Dynamics
Heat Exchange Solutions since 1981

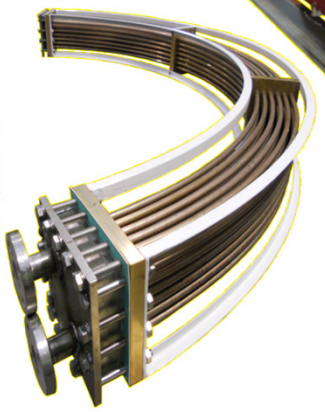
Special Project Heat Exchangers

At Fluid Dynamics we pride ourselves in our skills and ability to provide solutions for almost every project.

- Hydrogen Coolers
- Thrust Bearing Coolers
- Large Transformer oil Coolers
- Generator Coolers
- Large Cooling Coil Systems
- No matter what the requirement Fluid Dynamics can provide the correct technology and solution to match it







Fluid Dynamics
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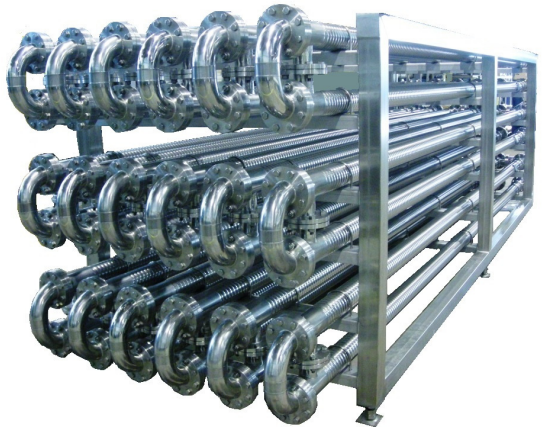
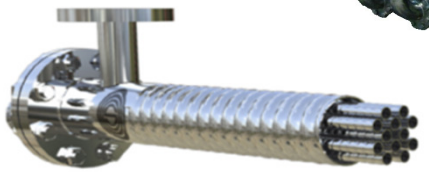
Corrugated Tube Heat Exchangers

- Highly efficient all stainless-steel shell and tubes with other materials available
- Hard start through to multi-start corrugation designs for different fluids
- Twice the heat transfer coefficient of smooth tube heat exchangers
- Suitable for almost every feasible hygienic or industrial application
- Working temperatures up to 550°C
- Ideal for shear-sensitive, viscous or highly viscous products





Fluid Dynamics
Heat Exchange Solutions since 1981

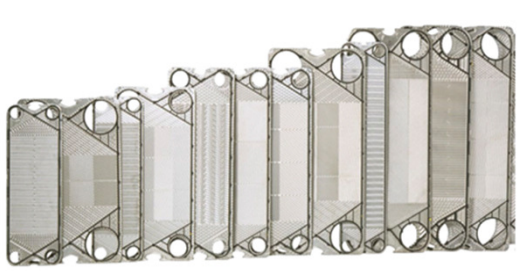
Ultrasonic Cleaning

- Our Ultrasonic Cleaning System uses special fluids (not harsh acids).
- Huge industrial sized tank
- Although it operates normally at 50°C to 60°C our system can heat to 90°C if required.
- When combined with the power of ultrasonics the system effectively removes carbon, rust, oil, epoxies, scale etc..

Fluid Dynamics
Heat Exchange Solutions since 1981

Heat Exchanger Spares
OEM & FluidEX®

- Spare or Replacement Custom Heat Exchanger Re-Builds
- Spare or Replacement Tube Bundles & Tube Nests
- Spare or Replacement Tube Plates (blanked or pre drilled)
- Spare or Replacement Aluminium Cores
- Spare or Replacement Finned Tubes – (most types)
- Replacement Spare Parts for all plate heat exchanger makes including complete plate packs
- Replacement Brazed Plates, SWEP, SONDEX, APV, WTT, FUNKE etc.

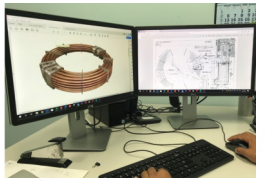


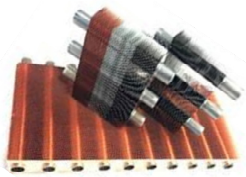
Fluid Dynamics
Heat Exchange Solutions since 1981

Heat Exchangers - In House Servicing

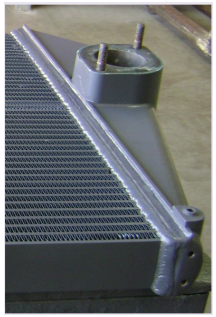
- In house Cleaning, Testing, Inspection & Repair of almost any type of Heat Exchanger:

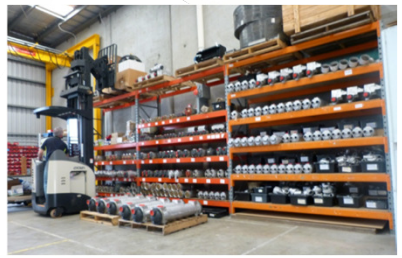
Shell & Tube; Steel, Copper & Aluminium Radiators & Oil Coolers; Finned Coil; Finned Tube; Aluminium Bar & Plate; Thrust Bearing Coolers; Hydrogen Coolers; Condensers; Evaporators; Fin Pack Units, Fin Coil Units, Charge Air Coolers, Generator Coolers, etc.





- Custom Heat Exchanger Builds and Re-Builds
- Replacement Tube Bundles and Cores
- NDT - Eddy Current; Ultrasonic and Borescope
- Camera inspections of tubes and internal surfaces
- Material analysis
- Replacement Spare Parts
- Redesign and Design Engineering Services including site laser scanning and 3d modelling





Servicing & Maintenance on Your Site

Fluid Dynamics has an experienced and well-equipped team of professional heat exchanger service technicians covering all States in Australia and at your call.

Cleaning, Testing, Inspection & Repair

The list of what we can do on your site is extensive and includes:

- Gas Integrity Testing
- Inspection and Evaluation
- Inline Chemical Cleaning
- Installation and Removal
- Re-gasketing
- Replacement of Spare Parts
- Replacement of Plates and Plate Packs
- Complete Heat Exchanger Builds and Re-Builds
- Repair and Re-builds of Tube Bundles
- Finned tube removal and replacement
- Leak Detection
- Borescope Inspections
- Material & Failure analysis
- Non Destructive Testing - Eddy Current, Ultrasonic etc.
- Waste disposal etc.

All Heat Exchangers

Shell & Tube; Finned Tube; Finned Coil; Thrust Bearing; Plate (Gasketed, Welded and Semi-Welded); Aluminium Radiators etc.

All Applications

Oil, Air and Water Cooling & Heating; Condensers & Evaporators; Generator Air Coolers; Refrigeration; Steam

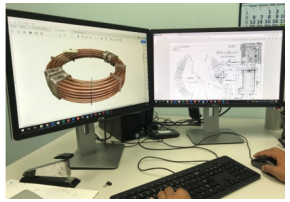
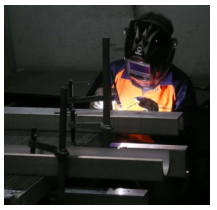
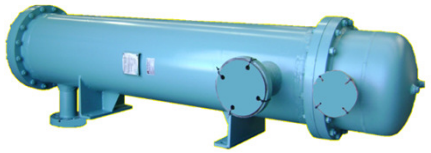
Fluid Dynamics
Heat Exchange Solutions since 1981

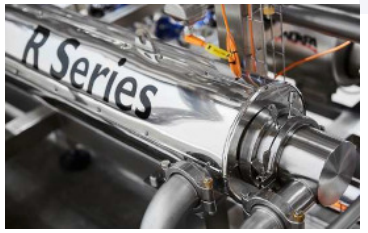
On Site Service

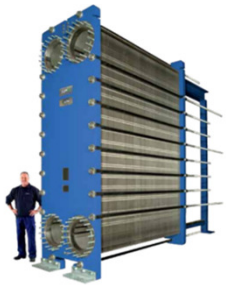
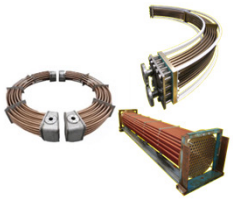
- Cleaning, Testing, Inspection & Repair of almost any type of Heat Exchanger:

  Shell & Tube; Oil Coolers; Finned Coil; Finned Tube; Thrust Bearing Coolers; Plate and Shell & Tube Condensers & Evaporators; Coolers, Generator Coolers, etc.

- Plate Heat Exchanger Builds and Re-Builds
- Replacement Tube Bundles and Re-builds
- Inline chemical cleaning, waste disposal
- Camera inspections of Shell & Tube internal tube nests and internal surfaces
- Offsite Material and Failure analysis
- Onsite installation supervision and Commissioning of our heat exchangers and systems from HRS Heat Exchangers
- Replacement Spare Parts, Replacement Plate Heat Exchanger Plate Packs
- Offsite cleaning and testing of Plate Heat Exchanger plate packs,
- Redesign and Design Engineering Services including site laser scanning and 3d modelling
- Onsite Inspection and Evaluation of your heat exchanger including but not limited to : Finned Tube Air Coolers, shell & Tube, Plate Heat Exchanger (Gasketed, Welded or Semi Welded), Custom Coolers such as Bearing Coolers etc.

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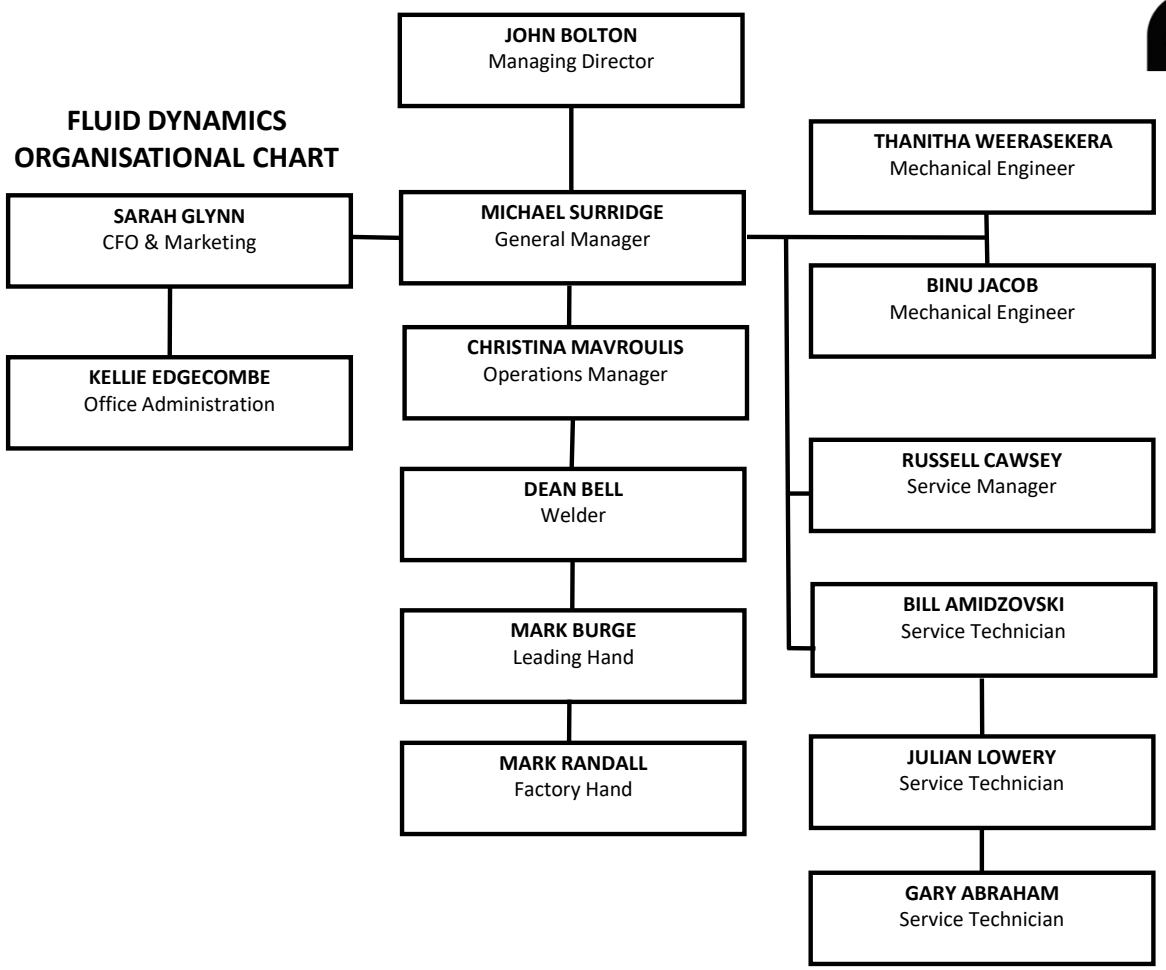
FLUID DYNAMICS ORGANISATIONAL CHART



Some of our Valued Customers:

Fluid Dynamics
Heat Exchange Solutions since 1981

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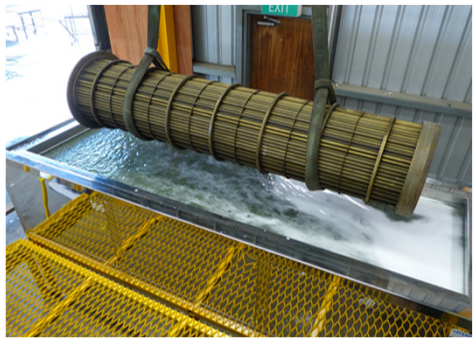
Website: www.fluiddynamics.com.au

Fluid Dynamics

Heat Exchange Solutions since 1981

Thank you for your time to view our capabilities
We are looking forward to speaking with you for your next project



The Heat Exchanger Specialists for all your Heat Exchanger Needs