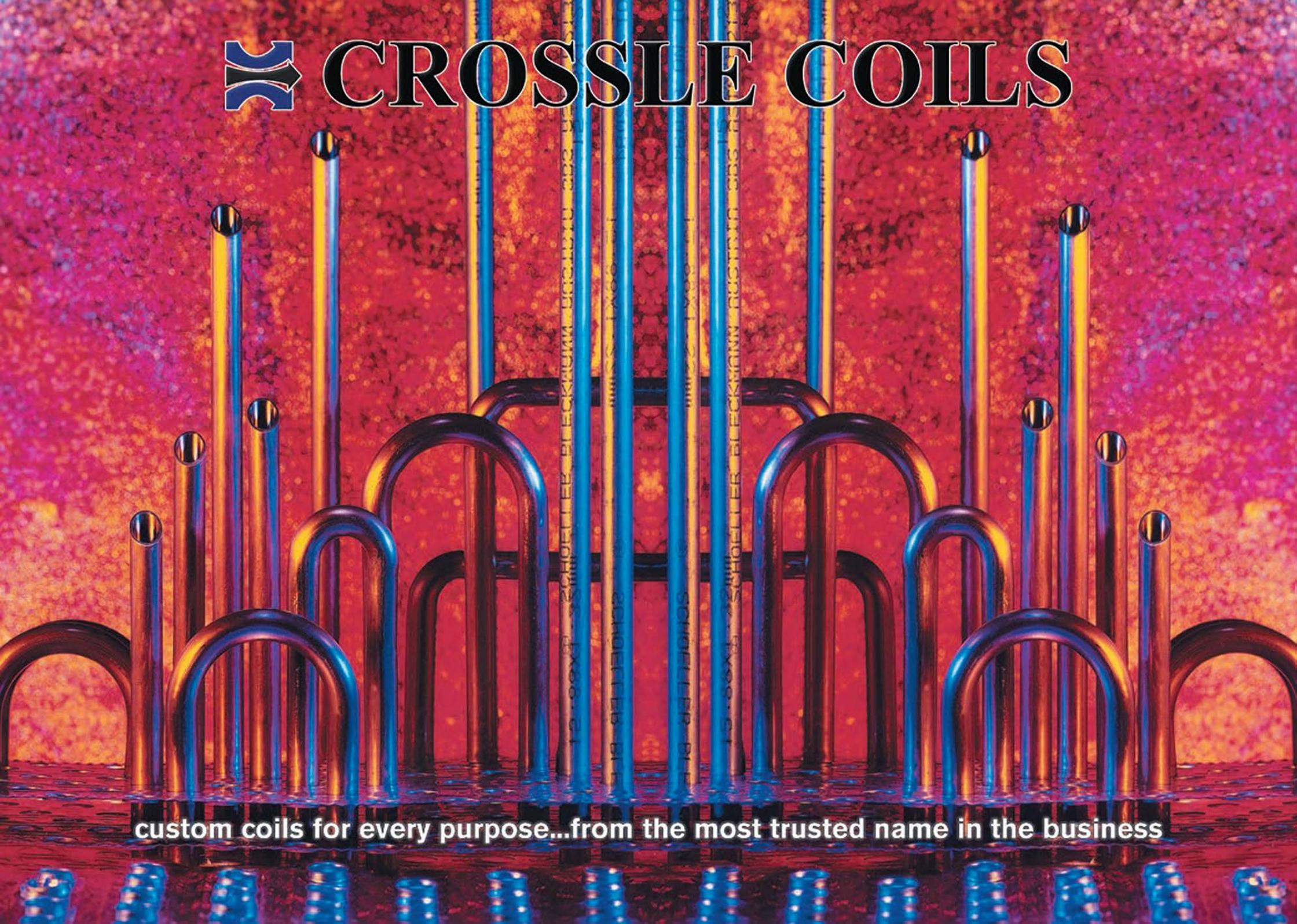


# CROSSLE COILS



custom coils for every purpose...from the most trusted name in the business

Crossle Coils Extended Surface Coils are designed, engineered and manufactured to provide the best possible heat transfer under all operating conditions.

All coils are constructed using premium grade materials, and are subject to quality control throughout manufacture to ensure long life and maximum performance. Specialized Crossle Coils design ensures maximum air turbulence through the coil, providing optimum contact between the air and heat exchanger surface, with minimum air side resistance.

As the oldest heat exchanger manufacturer in Australia, Crossle Coils provide not just the most experience, but a unique insight into quality production, specializing in contract coil manufacture. All coils are allocated and identified by a job number, and are traceable both electronically and with documentation. All coils can be replaced according to original design drawings and documentation.

Site visits for the purpose of obtaining dimensions are available if required. All at Crossle Coils are proud of the long-standing reputation for quality, service and delivery to deadline. Crossle Coils Air Treatment Engineers - leading innovators in Coil Technology for 80 years.

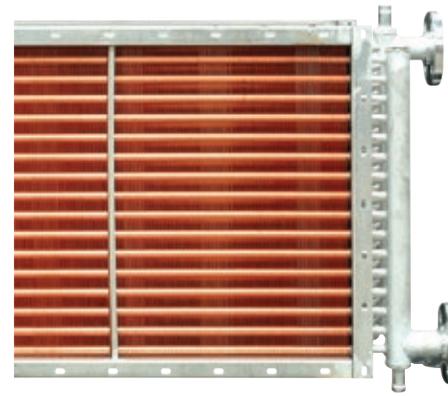


### **ECONOMISERS - HOT WATER COILS**

Economisers are available for heat recovery from flue gas or hot air streams. A wide range of Crossle Coils hot water economisers are available to suit many commercially available boilers.

An economiser is designed to extract heat from the relatively high temperature flue gas stream. This recovered heat input is generally used for pre-heating of the boiler feed water, leading to a reduction in fuel usage.

All Crossle Coils economisers are designed and built to comply with all relevant Australian standards. All economisers are Externally Design Verified, and subjected to Third Party Visual Examination with witnessed Hydrostatic Pressure Testing. All relevant drawings and documentation are provided upon completion.



### **STAINLESS OR CARBON STEEL**

Most Crossle Coils products can be manufactured utilizing either stainless steel or Carbon Steel tubes and headers with a choice of fin materials.

Fin materials carried in stock are: 0.2mm thick plain Aluminium, 0.45mm thick plain Aluminium, 0.2mm thick Double Gold Epoxy Coated Aluminium, 0.2mm thick Copper and 0.25mm thick 316 Stainless Steel.

All fins are Waffle Ripple Patterned to create turbulent air flow and maximize heat transfer, whilst maintaining low air side pressure drop. We can select and build coils to your requirements.

### **UNIT HEATERS - STEAM OR HOT WATER**

Crossle Coils make a Unit Heater that is sure to meet your space heating requirements. Our range of unit heaters are manufactured for use with high or low pressure steam or thermal fluids.

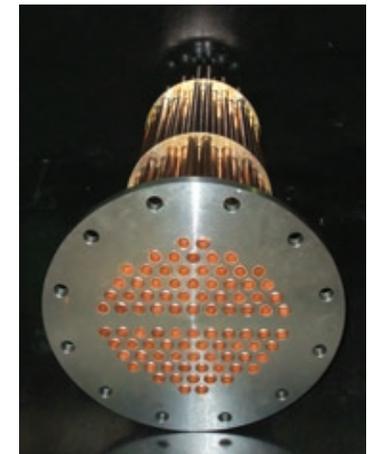
Our standard units have powder coated cabinets with adjustable directional louvers on the front, and removable egg-crate grille at the rear for access to the fan and motor. Unit heaters can be manufactured with stainless steel coils and cabinets for production areas where ease of cleaning is a requirement. Units are available with single-phase, or three-phase electric motors.



### **CALORIFIERS & TUBE BUNDLES**

Crossle Coils manufacture Tube Bundles for existing or new calorifiers. This style of heat exchanger, for insertion into calorifiers or other liquid heating vessels, is available in Copper, Copper-Nickel or Stainless Steel tubing with Brass, Steel or Stainless Steel mounting flanges.

These tube bundles are made to customer sample, customer drawings and/or design. Calorifier Tube Bundles are available for use with Steam, Water or Thermal fluids.



## COMPRESSED AIR COOLERS

Crossle Coils manufacture a range of Compressed Air Coolers designed for removal of the heat of compression from an air stream.

These coils are generally manufactured from Stainless Steel with Aluminium fins. Coils are manufactured for use with Chilled Water or other refrigerant through the tubes.

Enclosed in a stainless steel barrel, the cooling coil has a baffle system to direct air over the fins in a convoluted path to maximize heat transfer. Cooled air can be utilized for product cooling/conveying.



## HEATING & COOLING COILS - WATER - STEAM - THERMAL FLUIDS

Heating or cooling coils can be designed and manufactured to customer specifications for Air Conditioning, Space Heating, Process Heating/Cooling, Product Heating/Cooling and many other applications.

Crossle Coils Water Coils or Steam Coils can be manufactured in Aluminium, Copper, Copper-Nickel, Carbon Steel, or Stainless Steel. Water to air heating, and water to air cooling coils are available for either low or elevated pressure and temperature water supply.

Direct Expansion cooling coils are also available for a range of refrigerant gases in a variety of materials, including stainless steel.

Our range of coils can be designed and built to customer requirements utilizing thermal fluid as the heating medium. Crossle Coils heat exchangers can be used for cooling the thermal fluid and thereby heating the air stream, or utilizing waste heat from a hot air stream to heat the thermal fluid.



## POWER INDUSTRY

Crossle Coils manufactures a wide range of Specialist Cooling Coils for the Electricity Generating Industry. All coils are wholly manufactured in Dandenong, Australia and can be manufactured and delivered within very short time frames.

All coils are supplied fitted with sacrificial anodes and header boxes are fully vulcanized with 3mm rubber, to provide an effective seal and corrosion minimization. Coils can be supplied with new header boxes or existing header boxes can be refurbished and re-used. This style of heat exchanger provides very high quality, robust construction and a trouble-free service life.



## INDUSTRY ALLIANCES

Approximately 30% of Crossle Coils production is shipped to overseas markets, demonstrating the emphasis placed on quality, service and delivery to deadline.

We specialize in the manufacture of all types of plate fin heat exchangers specifically designed to meet customer requirements. Coils are available for, but not limited to, the following:

Abattoirs	Food Processing	Pharmaceutical
Air Conditioning	Grain Drying	Powder Drying
Bakeries	Generator Cooling	Power Industry
Calorifiers	Hot Houses	Product Cooling
Compressed Air	Heat Recovery	Rubber Processing
Confectioners	Hospitals	Small Goods
Dairy Industry	Marine	Steam Heating
Dry Cleaners	Milk Industry	Tanneries
Economisers	Mining	Textile Industry
Factory Heating	Paper Mills	Timber Drying

## INNOVATION

Crossle Coils has a long-standing reputation for the manufacture of quality Heat Exchangers employing proven methods and modern machinery. To enhance and further improve on accuracy and quality, whilst minimising production time, we have recently introduced two new machines to our manufacturing process.

## TUBE EXPANDING

Crossle Coils, in consultation and development with Burr Oak, have installed a Horizontal Progressive Tube Expander which is capable of expanding seamless tubes up to five meters in length.

Tubes made of a variety of metals, including, but not limited to Aluminium, Copper, Copper Nickel, Carbon Steel and Stainless Steel, can be expanded.

This expander provides reliable and consistent expansion of tubes, ensuring a tight friction fit and therefore enhanced heat transfer between the tube surface and the fin collar in your heat exchanger.

## FIN PUNCHING

We have installed a new Burr Oak FP1 High Speed Fin Punching Line. This machine provides Crossle Coils with the most up-to-date, reliable and cost effective fin punching system available. With enhanced safety features, auto fin stock feeders and fin stackers, easy programming, and speed of production, we have improved lead times considerably.



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