

# Crossle Coils



Nobody gets a coil to you faster!



Custom coils for every purpose ... from the leading innovators in coil technology for over 65 years.

## Our history

Formerly Crossle Coils Pty Ltd we are now a division of the world wide Windsor Engineering Group.

As the oldest heat exchanger manufacturer in Australia (founded in 1955), we provide not just the most experience, but a unique insight into quality production, specializing in contract coil manufacture.

Our 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 our quality control throughout manufacture ensures long life and maximum performance.

## Stainless or carbon steel?

Most of our 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,
- 0.25mm thick 316 stainless steel.



## Air handling units

All in one air temperature control, filtration and clean air supply.

We design and manufacture complete air handling solutions focused on dairy applications requiring high standards of finish (polished and buffed).

We can also provide ducting and structural assemblies, the solutions can include fans, filtration and moisture eliminators.

Units are available with either single phase or 3 phase electric motors.



Specialized design ensures maximum air turbulence through the coil, providing optimum contact between the air and heat exchanger surface, with minimum air side resistance.

All coils are identified by a job number, and are traceable both electronically and with documentation. Coils can be replaced according to original design drawings and documentation.

We have a long-standing reputation for quality, service and delivery to deadline.



## 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.

Our 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.

All our coils can be designed and built to customer requirements utilizing thermal fluid as the heating medium.

Our 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.

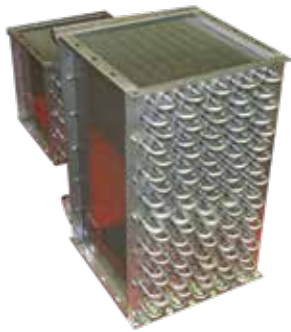


## Unit heaters

Our range of unit heaters are manufactured for use with high or low pressure steam or thermal fluids and we are able to manufacture a unit heater to meet all your space heating requirements.

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.

Our 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.



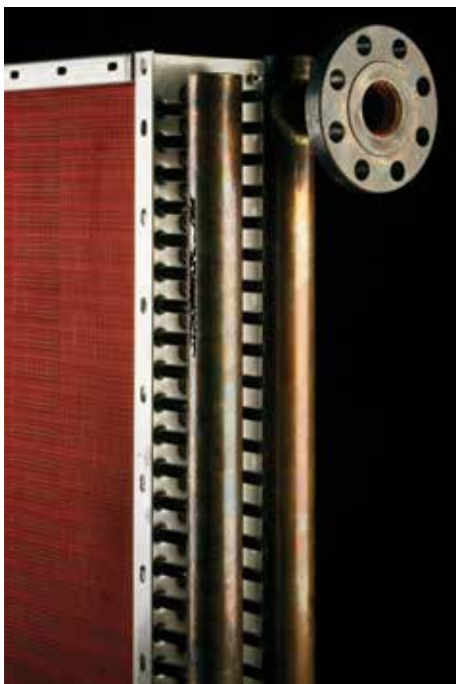
## Calorifiers & tube bundles

We 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.

Tube bundles are made to customer samples, drawings and/or design.

Calorifier tube bundles are available for use with steam, water or thermal fluids.



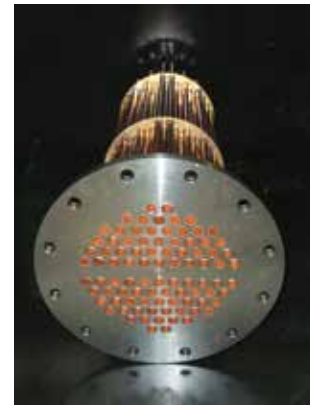
## Compressed air coolers

Our range of compressed air coolers are 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.



## Economisers

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

All economisers are 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 our economisers are designed and built to comply with all relevant Australian standards. Compliance with other standards can be available on request.

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.

# Other services



## Power industry

We manufacture 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.



## Innovation

We have a long-standing reputation for manufacturing 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 new machines to our manufacturing process.

## Fin punching

We have installed a new Burr Oak FP1 High Speed Fin Punching Line. This machine provides us 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.

## Tube expanding

In consultation and development with Burr Oak, we 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.

# Industry alliances

Approximately 30% of our 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  
Air Conditioning  
Bakeries  
Calorifiers  
Compressed Air  
Confectioners  
Dairy Industry  
Dry Cleaners  
Economisers  
Factory Heating

Food Processing  
Grain Drying  
Generator Cooling  
Hot Houses  
Heat Recovery  
Hospitals  
Marine  
Milk Industry  
Mining  
Paper Mills

Pharmaceutical  
Powder Drying  
Power Industry  
Product Cooling  
Rubber Processing  
Small Goods  
Steam Heating  
Tanneries  
Textile Industry  
Timber Drying

### Please contact our Melbourne office for these products:

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