THERMOTECH WATERTUBE
STEAM BOILERS GAS/DIESEL FIRED

THERMOTECH is a specialist boiler manufacturing company set up specifically for the manufacturing of boilers, pressure vessels and ancillary equipment. Today Thermotech manufactures a range of watertube steam boilers up to 10MW servicing a broad range of clients throughout Australia, New Zealand, Asia and the Middle East.

Thermotech boilers offer a competitively priced package, filled with unique innovative features. All products comply with the relevant standards.

THERMOTECH VWT - 6HP to 150 HP

Today’s Thermotech VWT range of packaged steam boilers are the product of many years of development, that has been heavily influenced by market requirements, and loaded with features and system options to meet the client’s specification.

All Thermotech boilers are manufactured to the highest standard, with the boiler pressure vessel undergoing 100% non-destructive testing during manufacture (the results of which are supplied with the boiler manufacturer’s data report at time of manufacture). The VWT boilers have a standard design pressure of 1050Kpa.

Thermotech boiler specifications exceed the minimum requirements of relevant codes, and compare favourably to other equipment that is available.

SPACE REQUIREMENTS - The VWT range of boilers being vertical down fired design, takes a minimum of valuable floor space.

OPERATING COSTS are minimized with the VWT boilers, the 3 pass circular circulation water design will provide a guaranteed minimum of 80% efficiency across the operating range of the boiler.

RADIATED HEAT is not a problem with Thermotech boilers, high quality thermal insulation is fitted to the boilers, ensuring a more comfortable workplace, and increased energy efficiency.

QUICK INSTALLATION of the VWT boilers is enabled as a result of the robust down fired design, which will provide many years of reliable service.

DISTRIBUTED BY

SIMONS BOILER CO.

www.simonsboiler.com.au

HOT WATER BOILERS, STEAM BOILERS, COMMERCIAL SOLAR & WARM WATER SYSTEMS

EDWARDS INSULATED VITREOUS ENAMEL LINED AND STAINLESS STEEL STORAGE TANKS UP TO 1000 LTR CAPACITY

VAPAC HUMIDIFIERS ARE AVAILABLE

In sizes from 1KG/HR to 90 KG/HR

The new vapanet electrode system offers superior quality with reliable trouble free operation.

Other features include:

• User Friendly Display
• Control Interface
• Run and Alarm Signals
• Re-saturation Protection
• Easy Front Access
• Drain Pump

ALL ABOVE BOILERS ARE FINISHED IN ATTRACTIVE COLOURED CLADDING THAT IS EASILY REMOVABLE FOR MAINTENANCE PURPOSES.
THERMOTECH is an engineering company set up specifically for the manufacturing of boilers, pressure vessels and ancillary equipment. Today Thermotech manufactures a range of watertube steam boilers up to 10MW, servicing a broad range of clients throughout Australia, New Zealand, Asia and the Middle East.

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RADIATED HEAT
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QUALITY FIT OUT
- has enabled a low cost, low maintenance steam boiler that will provide many years of reliable service.

• LOW CAPITAL COST • FULLY WELDED TUBES • 3 PASS DESIGN • EASY TO OPERATE
• 3 PASS DESIGN • EASY TO SERVICE • PARTS READILY AVAILABLE • EASY FRONT ACCESS
• LOW HEAT DESENSITIVISING • PARTS READY AVAILABLE • RUN AND ALARM SIGNALS • EASY TO OPERATE
• NO BOILER TICKETS REQUIRED • EASY TO OPERATE • DRAIN PUMP • EASY TO SERVICE
• EASY TO OPERATE • DRAIN PUMP • NO BOILER TICKETS REQUIRED • QUALITY FRONT COMPONENTS

All Thermotech boilers are engineered to provide a low service life with minimal maintenance requirements. Thermotech boilers carry a 12 months warranty on controls and peripheral equipment, and 5 years warranty on the shell, providing the boiler is operated and maintained within relevant standards, including water treatment.

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INSTALLATION BY SOLA EDWARDS - SOUTH AUSTRALIA

EDWARDS INSULATED VITREOUS ENAMEL LINED AND STAINLESS STEEL STORAGE TANKS UP TO 1000 LITRES
ICI CALDAIE have acquired an international reputation for products of the highest quality. ICI CALDAIE produces water heaters for the domestic, commercial, and industrial markets. Within the Models range from 100 kW to 2000 kW, efficiency of 93% NET.

High efficiency three pass wet back design with twin chamber LOW RETURN TEMPERATURE of highly reliable and advanced technology water heaters. Energy saving and environmental protection are fundamental to the basis of the water heating industry as a result of its ongoing research activity and development.

Raypak are Australia's largest manufacturer of water heaters with atmospheric burners. They range from 32 kW to 960 kW, for both indoor and outdoor installation. Suitable for operation on natural and LP gas. Some smaller models are supplied with a flue dilution fan.

Because Raypak heaters are compact they are ideal for installation in plant rooms to supply large quantities of hot water for hydronic heating and, when combined with storage tanks, for hot water applications.

RAYPAK commercial range of water heaters provide a compact, efficient heating design, when used with the electronic controls of water storage for solar and hydronic applications. With models ranging from 32 kW to 960 kW and a gross thermal efficiency of 95% they look for less flue gas. The Raypak Range is suitable where reliable and economic quantitative of hot water are required. They are ideal for large hotels, industrial plants, laundries and mechanical heating.

The Edwards commercial range of water heaters is designed to meet the needs of the heating and hydronic applications. The Edwards boiler will be installed with a plate heat exchanger, to reduce the temperature plus about 10˚C; present in the flue gases; its temperature is reduced before it reaches the smoke chamber and exits at the chimney at a lower temperature. Edwards Hot Water manufacture a wide range of commercial water heating equipment to offer you the flexibility and performance you need.

The Raypak Commercial Commercial/Industrial range of water heaters provide a compact, efficient heating design; when used with the electronic controls of water storage for solar and hydronic applications. With models ranging from 32 kW to 960 kW and a gross thermal efficiency of 95% they look for less flue gas. The Raypak Range is suitable where reliable and economic quantitative of hot water are required. They are ideal for large hotels, industrial plants, laundries and mechanical heating.

Edwards Hot Water manufacture a wide range of commercial water heating equipment to offer you the flexibility and performance you need.

Edwards indeed storage cylinders have the added advantage of having two separate heating circuits. A low pressure heated water circuit which can be used for connection to solar collectors or to mechanical devices for room heating. The Edwards Boilers are ideal where small to medium quantities of steam are required and where other fuels cannot be considered because of availability or ability to use the boiler. Edwards Thermosiphon Boilers can be installed in any location where sufficient electrical power is available. They are ideal for use in:

- Dry Cleaners
- Laundries
- Food Processors
- Hospital Steelworks
- Auto colleges
- Bee Keeping
- Universities
- Solar Sterilising
- Hot Water Storage Heaters

REX and REX F MODELS - FORCED DRAUGHT BURNERS

The REX model offers a UNI-FLOW wet back water heater with vent back design and high water content. Models range from 70 kW to 950 kW with an efficiency of 93% NET. Both REX and REX F models have exactly the same design.

The low flue range have a special tube system which increases the efficiency to 95% NET. This is achieved by the use of the flue gas system that increases the heater efficiency up to the 3 stars level as coding to EN201. On all double chamber units combustion with internal fire, inserted in the rear of the firetubes. While flue gas transmits thermal energy along the finned surfaces, the main stream gas is burnt in the firetubes at a lower temperature.

STELT, MONOLITE & CODEX CONDENSING BOILERS

Stelt, Monolite & Codex Condensing range have a very high efficiency, 90% to 95% which present the lead of the competition according to European standards (output directive 92/42/EEC). The reason for its high efficiency are:

- The highest heat by condensation of the water vapour present in the flue gas.
- Extensive low flue temperature; equals that of the return water temperature plus about 10˚C.
- Reduction to a minimum of heat loss through the heater casing.

The Stelt, Monolite & Codex Condensing range have a special tube system which increases the efficiency to 95% NET. This is achieved by the use of the flue gas system that increases the heater efficiency up to the 3 stars level as coding to EN201. On all double chamber units combustion with internal fire, inserted in the rear of the firetubes. While flue gas transmits thermal energy along the finned surfaces, the main stream gas is burnt in the firetubes at a lower temperature.

As an example the Edwards Water System Stel T and Monolite commercial range of boilers are considered cut points in the performance of water heating equipment.

The Edwards Stel T and Monolite commercial range of boilers provides the copper tubes with a pressed aluminium absorber plate coated with a polyester matt black paint for maximum performance. The casing is colorbond with pre-treatment, with pump, only requiring the connection of electricity and water.

All elements and controls are side entry and easily accessible - all steam boilers are supplied as a complete packaged unit, factory tested and ready for connection to services.

ELECTRIC WATER HEATERS

Simons electric hot water and steam boilers. A family company established in 1932 Simons has grown and expanded to manufacture a wide range of electric steam and hot water boilers from 2.7 kW to 460 kW.

All elements and controls are side entry and easily accessible - all steampot boilers are supplied as a complete packaged unit, factory tested and ready for connection to services.

Raypak atmospheric water heaters.

EDWARDS WARM WATER SYSTEMS

Edwards have been producing steam water Systems since the 1960’s. The heaters are manufactured under Department of Science WR520 and are approved by ASME height for use as warm water generators. The Edwards devices are designed to provide a high water temperature on the outlet between 65-80˚C at 1.24MPa.

The system comprises a “storage cylinder”, shell and plate coil and control box. The cylinder has a heat exchange coil, which has a large volume, is capable of rapidly changing in demand. Simple in design the Edwards Warm Water System is easy to maintain. Multiple heaters, manifolded together, can be used in an application where it is not possible for a system to be shut down completely.

Commercial Solar

Edwards have a range of solar collectors to suit all application. The powerful Australian series provide the copper tube with a pressed aluminium absorber coated with a polyester matt black paint for maximum performance. The casing is colorbond with pre-treatment.

The Titan Series is designed to high performance in cooler climates and incorporates stainless steel copper absorber with plate systems to greater efficiency.

The Edwards solar system has the ability to be installed with a glacial add to prevent freezing and is guaranteed to minus 15˚C. All Edwards Collector are made in Australia and comply with all relevant Australian standards.

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The Edwards Solar boiler is suitable for operation on natural and LP gas. Some smaller models are supplied with a flue dilution fan.

Edwards indeed storage cylinders have the added advantage of having two separate heating circuits. A low pressure heated water circuit which can be used for connection to solar collectors or to mechanical devices for room heating. The Edwards Boilers are ideal where small to medium quantities of steam are required and where other fuels cannot be considered because of availability or ability to use the boiler. Edwards Thermosiphon Boilers can be installed in any location where sufficient electrical power is available.
Energy saving and environmental protection are fundamental to the basis of the water heater design and research. ICI CALDAIE, established in 1958, presently holds a leading position in the heating industry as a result of its ongoing research activity and development of highly reliable and advanced technology water heaters. ICI CALDAIE produces water heaters for the domestic, commercial, and industrial markets. Within the above markets, ICI CALDAIE have acquired an international reputation for products of the highest quality, suitable for operation on natural and LP gas. Some smaller models are supplied with a flue dilution fan.

Because Raypak heaters are compact they are ideal for installation in plant rooms to supply large quantities of hot water for hydronic heating and, when combined with storage tanks, for hot water applications.

**RAYPAK ATOMICHEMICAL WATER HEATERS**

Raypak are Australia’s largest manufacturer of water heaters with atmospheric burners. They range from 32 kW to 960 kW, for both indoor and outdoor installation. Suitable for operation on natural and LP gas. Some smaller models are supplied with a flue dilution fan.

**STEL, MONOJET & CODEX CONDENSING BOILERS - FORCED DRAUGHT BURNERS**

The Steil, Monojet & Codex Condensing Boiler have a very high efficiency, MBC 90% which projects to the peak of the condensation according to European standards (output directive 92/42/EEC). The resonators the high efficiency are:

- Recovery of the latent heat by condensation of the vapour present in the flue gases.
- Extremely low flue temperature, equal to that of the return water temperature plus about 10°C.
- Reduction to a minimum of heat loss through the heater casing.
- Extremely low flue temperature, equal to that of the return water temperature plus about 10°C.
- Recovery of the latent heat by condensation of the water vapour present in the flue gases.
- Reduction to a minimum of heat loss through the heater casing.

**REX AND REX F MODELS - FORCED DRAUGHT BURNER**

The Rex and Rex F boiler range have a high efficiency condensing water heater with wet back design and high water content. Models range from 3.7 kW to 2.5 kW with standard efficiencies of 93% NET. Both Rex and Rex F models have exactly the same design.

The low range have a special tube plate which increases the efficiency to 95% NET. This is achieved by the use of a coil system that increases the headers efficiency up to 5 stars level by cooling to 70°C.

**GREENOX BT - FORCED DRAUGHT BURNER**

In a dual chamber combustion, with intense flue, inserted in the rear of the heaters, all flue gas transmits thermal energy along the finned surfaces, its warm temperature is reduced before it leaves the stove chamber and exits the chimney of cooler temperature.

**COMMERICAL SOLAR**

Edwards Hot Water manufacture a wide range of solar water heating equipment to offer you the flexibility and performance you need.

With over 40 years experience in hot water we have the solution for most applications. Our unique indirect heat exchange storage cylinders minimise the possibility of scale build up within the storage tank and solar collectors (if Other). Other systems do not offer the benefits of our anti-scale system and corrosion protection.

Edwards indeed storage cylinders have the added advantage of having two separate heating circuits. A low pressure heated water circuit which can be used for connection to solar collectors or to mechanical devices for room heating, and a high pressure circuit which still does not compromise on the pressure supply to the water hot water.

**EDWARDS COMMERCIAL HOT WATER**

Edwards Water Heaters has a range of solar collectors to suit every application. The portable Australia Series provide the copper tube with gusseted aluminium absorber plate solar collector with a portable multi mount base for maximum performance. The casing is co formed with blown expansion.

The Titan Series is designed to high performance in cold climates and incorporatesTitanic composite absorber systems to achieve greater efficacies. The Edwards solar system has the ability to be installed with a global add on to prevent freezing and is guaranteed to minus 15°C. All Edwards Collector are made in Australia and comply with all relevant Australian standards.

**EDWARD'S WARM WATER SYSTEMS**

Edwards have been producing warm water Systems since the early 1980s. The heaters are manufactured under European standards EN412 and are approved by NSW Health for use as warm water generators. The Edwards systems are designed to produce a high water temperature and are safe for use around children.

The system consists of a "storage cylinder", heat exchanger and control box. The cylinder has a heat exchange coil, which forms the primary. A separate exchanger changing to heat demand. Simple in design the Edwards Warm Water System is easy to maintain. Multiple heaters, manifolded together, can be used in an application where it is not possible for a system to be shut down completely.

**SIMONS BOILER COMPANY**

Simons electric hot water and steam boilers.

A family company established in 1932 Simons has grown and diversified to manufacture a wide range of electric steam and hot water boilers from 2.7 kW to 1500kW.

All elements and controls are side entry and easily accessible - all steam boilers are supplied as a complete packaged unit, factory tested and ready for connection to services.
ICI CALDAIE produces water heaters for the domestic, commercial, and Industrial markets. Within the High efficiency three pass wet back design with twin chamber LOW RETURN TEMPERATURE of highly reliable and advanced technology water heaters.

Position in the heating industry as a result of its ongoing research activity and development heater design and research. ICI CALDAIE, established in 1958, presently hold a leading.

Firetubes. While flue gas transmits thermal energy along the finned surfaces, Fin-e® is an aluminium extrusion, with internal fins, inserted in the rear of the exit at a lower temperature.

The Stelt, Monolite & Codex Condensing range have a very high efficiency, 92% NET. Both Rex and Rex F models have exactly the same design.

REX AND REX F MODELS - FORCED DRAUGHT BURNER

The REX line has a reverse flame gas flow, which provides a high efficiency water heater with very small design and high water content.

Models range from 70 kW to 3500 kW with an efficiency of 92% NET. Both Rex and Rex F models have exactly the same design.

The Stelt, Monolite & Codex Condensing range have a very high efficiency, 92% NET. Both Rex and Rex F models have exactly the same design.

Bakeries

Autoclaves

Hospital Sterilizers

Dry Cleaners

Pharmaceutical/Cosmetics

Hospital sterilizers

Steam Jacketed Pans

Hot Water Storage Heaters

The Edwards Warm Water System is easy to maintain. Multiple heaters, manifolded together, can be used in an application where it is not possible for a system to be shut down completely.

COMMERCIAL SOLAR

Edwards has a range of solar collectors to suit every application. The prepayable Australia Series provide the copper tube with a pressurised aluminium absorber plate with a polished matt black paint for maximum performance. The casing is coated with a special lacquer.

The Titan Series is designed high performance in cooler climates and incorporates titanium coated copper absorber plates for greater efficiency.

The Edwards solar system has the ability to be installed with a glacial addition to prevent freezing and is guaranteed to minus 15°C. All Edwards Collector are made in Australia and comply with all relevant Australian standards.

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SIMONS ELECTRIC STEAM BOILERS

Raypak boilers have a thermal efficiency of 99%. A combustion chamber and water jacket are the same model which eliminates the need to purchase new equipment when replacing with an electric system.

All elements and controls are side entry and easily accessible - all steam boilers are supplied as a complete packaged unit, factory tested and ready for connection to services.

ELECTRIC WATER HEATERS & STEAM BOILERS

Simons electric hot water and steam boilers.

A family company established in 1932 Simons has grown and now manufacture a wide range of electric steam and hot water boilers from 2.7 kW to 480 kW.

All elements and controls are side entry and easily accessible - all steam boilers are supplied as a complete packaged unit, factory tested and ready for connection to services.
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THERMOTECH VWT - 6HP to 150 HP

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All Thermotech boilers are manufactured to the highest standard, with the boiler pressure vessel undergoing 100% non-destructive testing during manufacture (the results of which are supplied with the boilers manufacturer’s data report at time of manufacture). The VWT boilers have a standard design pressure of 1050Kpa.

Thermotech boiler specifications exceed the minimum requirements of relevant codes, and compare favourably to other equipment that is available.

SPACE REQUIREMENTS - The VWT range of boilers is collectively design to take a minimum of valuable floor space.

OPERATING COSTS - are minimized with the VWT boilers, the three pass horizontal water waall design will provide a guaranteed minimum of 80% efficiency across the operating range of the boiler.

QUALITY FIT OUT - of the VWT boilers has enabled a low cost low maintenance steam boiler that will provide many years of reliable service.

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Email: info@simonsboiler.com.au

THERMOTECH WATERTUBE
STEAM BOILERS GAS/DIESEL FIRED

THERMOTECH WVT - (125 HP to 1000 HP)

The WVT series boilers are of a robust fully welded single drum design that eliminates the need to proceed to enter the steam drum to expand tubes. The boiler, due to the water wall design does not use refractory material for baffles or combustion gas pathways.

A feature of the boiler design is the identification of the downcomers, which are external to the water wall and pass direct from steam drum to the bottom header.

The modular construction of the boiler makes the advantage that any individual tube can be removed and replaced without disturbing adjacent tubes. This makes for easy maintenance.

Standard approved designs cover the boiler up to 2500kpa maximum operating pressure. However, unless otherwise specified, the boiler would be supplied to 15Bar.

All above boilers are finished in attractive colorbond cladding that is easily removable for maintenance purposes.

EDWARDS INSULATED VITREOUS ENAMEL LINED AND STAINLESS STEEL STORAGE TANKS

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