



**THERMODYNE  
ENGINEERING SYSTEMS**



*Enhancing Energy Efficiency  
..... Since 2000*



[www.thermodyneboilers.com](http://www.thermodyneboilers.com)

# OVERVIEW

In today's competitive market, industries need to contain their energy costs. Higher energy costs reduce profits and in some cases may even make the business uncompetitive. This is where we can contribute. We can help by providing high efficiency boilers, Energy consultancy and customized heating solutions. During last 15 years, more than 500 customers like L&T, Reliance, Merino Industries, Metso, Goodluck Tubes etc have benefited from our products & services.



Through innovation and commitment to customer service, **THERMODYNE** has been consistently changing the way customers think about Steam Boilers. We are constantly striving to extend the Thermal Efficiency Levels, Waste



Heat Recovery, Condensate Heat Recovery and Fuel conversions savings potential at customer's end. Through our expertise in the field of Thermal Energy, we have garnered business from various verticals across the nation, while earning our clients' trust along the way. We are therefore extremely proud of what we have achieved, and even more excited about our outlook for an equally promising future.

Fuel savings are not only important for margins, but also for environment. Industry can count on Thermodyne because we always believe in *Enhancing Energy Efficiency*

Backed by more than 500 successfully executed projects across all major industry segments using boilers, and having worked for some of top names in the industry, we have had quite enriching experiences regarding processes & work flow in the industrial environment.

This gives us immense strength when we undertake project consultancy in the field of energy conservation and efficiency improvements related to boilers. The fact is that the energy demands are ever-increasing and the resources are ever-depleting. This gap in energy demand and energy supply at an affordable cost is increasing by the day, which we offer to fill through our technical now-how.





These are fully water tube design boilers for high pressure steam requirements. Water circulation through the boiler may be either natural circulation due to density difference or by forced circulation.

### BENEFITS

- Most efficient Bi-drum designs
- Multiple options of firing grates for different fuels
- Incorporates fully-sealed membrane technology – latest in heat transfer
- Suitable for Co-generation plants

Capacity Range : 5 TPH to 50 TPH

Working pressure : Upto 67 Kg/cm<sup>2</sup>

Firing options : FBC (Overbed & Underbed), Manual

Grate : Dumping grate, Travelling grate, Reciprocating grate and other options available

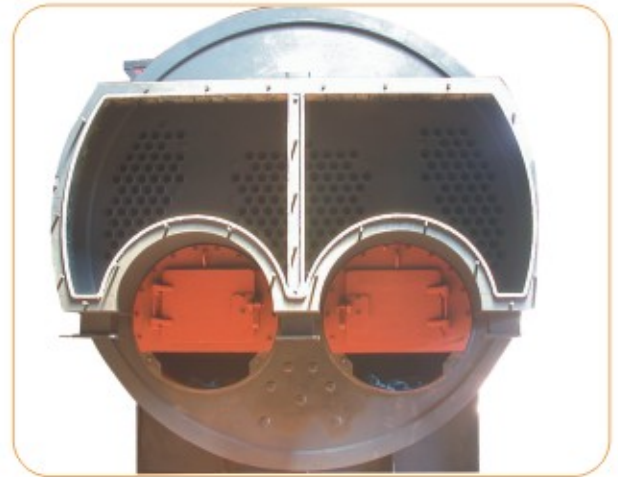


## INTECH

This is the conventional three pass smoke-tube design steam boiler having internal furnace. Less site work and better response to load fluctuations are the key features which make it a truly packaged boiler. This comes in dry back or wet-back options and is most suitable for manual firing of coal, wood or briquettes.

### BENEFITS

- Large convective heating surface - Excellent heat transfer
- Large water holding and steam holding space - Quick response to fluctuating loads
- Dry steam - Reduced processing time
- Horizontal packaged boilers – Less site work & quick commissioning



Wood



Coal



Briquette



## SAVEMAX

This three pass packaged boiler is most suitable to burn fuels like heavy / light oils and Gas. The high combustion volume, large water & steam holding capacity and superior design features make it the ideal choice for efficient operation.

### BENEFITS

- Fully Automatic operation – High Efficiency
- Large water/steam holding - Quick response to fluctuating loads
- Monobloc type burners – Reduced fuel consumption
- Horizontal packaged boilers – less site work & quick commissioning





This is a unique design membrane water wall type boiler combining the advantages of water tube & smoke tube designs. Proven technology of fully sealed water wall membrane, which is used worldwide for better heat recovery, has been incorporated to provide high efficiency in this model.

Besides burning conventional fuels like coal, wood & briquettes, this can efficiently burn high volume fuels like rice husk, bagasse, pet coke, saw dust, groundnut shells and many more.

**BENEFITS**

- Unique water wall designs – 3 / 5 side water tube membranes
- Flexibility of fuels with choice of agro-waste fuels
- Reduced refractory losses – More Radiant heat transfer
- High thermal efficiency and low operating costs



COMBITHERM ULTRA

**BENEFITS**

- Skid-mounted Water-cum-smoke tube boiler – Requires very less floor area & site work
- Multi-fuel options – Total flexibility
- Factory assembled boiler including ducting, insulation, refractory work etc.
- Low installation & maintenance costs



## REVOSTEAM



REVOSTEAM is the conventional forced-circulation type water tube coil type boiler incorporating the unique principle of combustion known as 'Reverse Flow'. This increases the combustion efficiency and allows a high rate of heat release. It can be offered in both IBR and Non-IBR designs.

## FLUIDTHERM



Fluidtherm is synonymous with high reliability, high efficiency, longer equipment life and lower operational & maintenance costs.

The hot thermic fluid is circulated in a closed circuit by a high temperature circulating pump and the heat is transferred to the process through an appropriate heat exchanger. A combined de-aerator cum expansion tank eliminates any liberated gases and absorbs the thermic fluid expansion during the heating process.



Various options of fuels are available like oil, gas, wood, coal, rice husk & other agrowaste fuels, there by providing full flexibility and low operational energy costs.

## WASTETHERM

These boilers are designed to recover heat from waste flue gases from DG exhaust, Furnace exhaust, Kiln exhaust, incinerator exhaust etc. to produce steam or hot water based on the application requirements of the plant. There are no fuel bills to operate these and hence they offer very handsome pay-back of investments.



### BENEFITS

- Energy Saving
- Reduction in Pollution
- Reduction in Equipment size

## HOT WATER / AIR GENERATOR

- High efficiency heating equipments
- Available in all fuel options
- Designed for rugged Industrial use
- Ideal for hotels, hostels & hospitals
- Direct Hot water / air available without any heat exchanger



## ELECTRA



- Zero Emmissions
- 100%\* Efficiency
- Compact design
- Environment Friendly
- No fuel storage / handling

## ACCESSORIES

We provide end to end solutions for the industry and offer accessories like Chimneys, Tanks, Steam distribution Headers, Pressurised Condensate Recovery Systems, Pressure Reducing Stations, Complete piping work for steam in your plant and other site work related to installation & commissioning of Boilers. Turnkey solutions give you complete peace of mind as you are assured of our expert team's support for your project.



## SUPPORT



Comprehensive Service of Steam Boilers, Thermic Fluid Heaters, Hot Water and Hot Air Generators Backed by more than 15 years of innovation in the industry, Thermodyne offers the experience through its engineering support to perform everything from routine maintenance and on-site repair to meeting your upgrade and replacement needs. The process industry depends on the heat transfer equipments like Steam boilers etc. to get the job done, every day. So when you need preventative or emergency service, you must call professionals who not only understand the design & features of your equipment, but also the complex nature of your business.

Our goal is to ensure your system's safety, maximize your efficiency, and minimize your downtime. When you call our trained service technicians, you're calling for outstanding service to keep your system in top health.



Reliance  
Industries Limited



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