



## Operating Principle

**REVOSTEAM** is a truly Non-IBR Coil type boiler incorporating the unique principle of combustion known as "REVERSE FLOW" which increases the combustion efficiency and allows a high rate of heat release.

## Construction

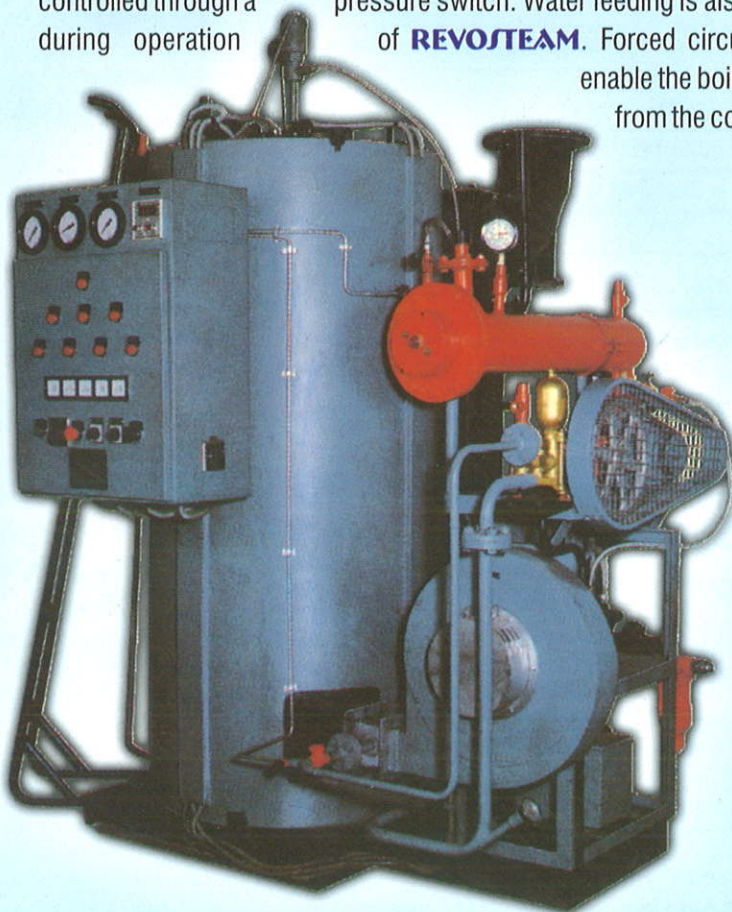
The boiler comprises of a jacketed MS shell housing a helical Coil. The combustion air is forced through the jacketed shell by means of a centrifugal blower thereby getting preheated. The flame travels downwards inside the coil and the flue gases reverse upwards thereby giving two passes in the radiant zone ensuring complete combustion and higher heat flux. The third pass of flue gases is in the convective zone between coil and the inner shell. Flue gases then travel to the Economiser forming the fourth pass.

## Packaged Unit

**REVOSTEAM** is offered as a packaged unit comprising of the main boiler alongwith accessories like economiser, feed pump, oil pump, blower and control panel mounted on a base frame. Only connections to water, power, steam and chimney are required to be done at site.

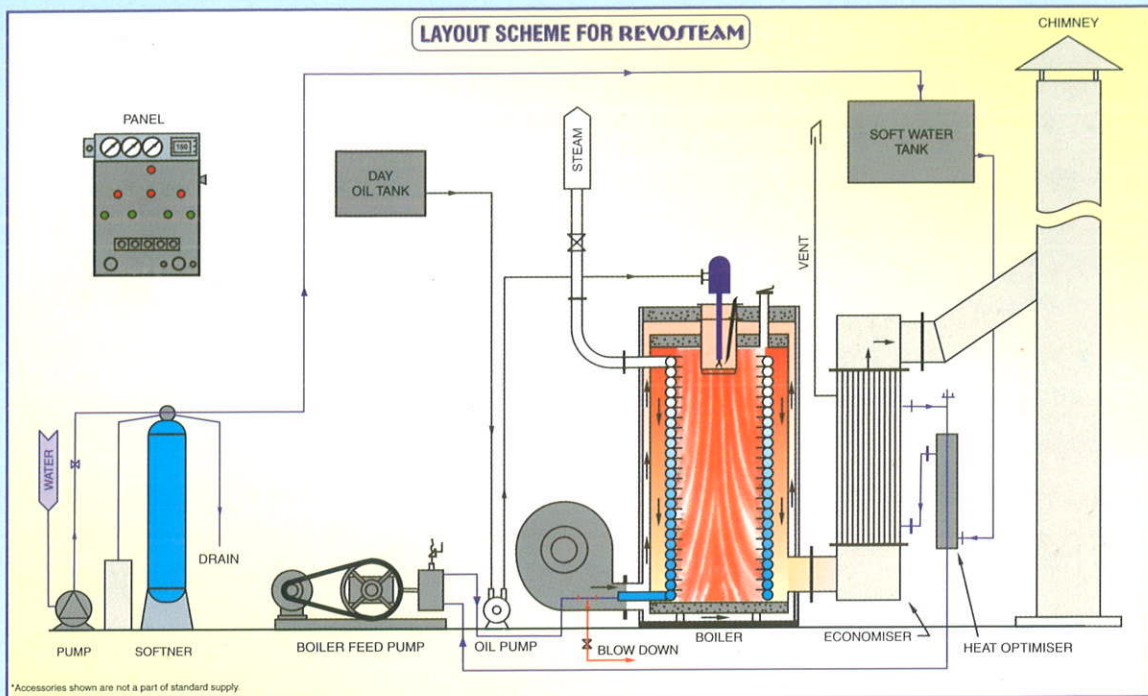
## Fully Automatic

**REVOSTEAM** is a fully automatic boiler and it switches ON and OFF automatically depending upon a preset steam pressure controlled through a pressure switch. Water feeding is also automatic and thus there is no need of a trained boiler attendant during operation of **REVOSTEAM**. Forced circulation, water tube design and "REVERSE FLOW" combustion enable the boiler to produce steam at full working pressure within 3 to 5 minutes from the cold start.

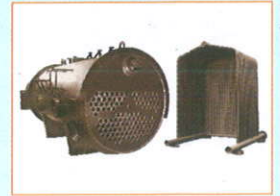


### Salient Features

- ❖ Fully Automatic unit
- ❖ Unique four pass design
- ❖ Qualified Attendant not required
- ❖ Multipass design with Economiser
- ❖ High Efficiency - lower running cost
- ❖ Easy access for inspection and cleaning
- ❖ Large tube diameter ensure longer coil life
- ❖ Pre-heated air gives excellent combustion
- ❖ Minimum site work, lower installation cost
- ❖ Instant steaming within 3-5 minutes of cold start
- ❖ Truly Non-IBR design - Outside the purview of IBR
- ❖ Fail-safe design and dependable safety instruments



## Product Spectrum



## Technical Specifications :

Details	Unit	RS-01	RS-02	RS-03	RS-04	RS-05	RS-06	RS-08
<b>OPERATING PARAMETERS</b>								
Steam output F & A 100°C.	Kg/hr	100	200	300	400	500	600	800
Steam pressure	Kg/cm <sup>2</sup>	15	15	15	15	15	15	15
Fuel Oil Consumption (Diesel)	Kg/hr	6	12	18	24	30	36	48
Efficiency (NCV)	%	← 90 ± 2 →						
Start up time	Minutes	← 3 to 5 →						
Burner control		← ON/OFF →						
Pressure parts	OUTSIDE THE PURVIEW OF INDIAN BOILER REGULATIONS							
Electricity Supply	AC - 3 PHASE : 415 V ± 6%; 50 Hz ± 3%; 4 wire							
Flue Gas outlet	mm	150	150	200	200	200	250	250

- ★ Larger capacities can also be offered on request.
- ★ Fuel oil consumption is based on net calorific value (NCV) of: 10,000 kcal/kg for diesel.
- ★ The efficiency is guaranteed on the test bay with commercially clean internal and external heat transfer surfaces.
- ★ Accessories shown in the picture / layout may not be a part of standard supply.
- ★ In view of our constant efforts to improve the quality of our product, the above specifications may change without prior notice.

## Products & Services

- IBR Boilers • Water Treatment Plants • Thermic Fluid Heaters • Steam / Water Piping
- Air / Water Heaters • DG Waste Heat Recovery Systems • Chimneys • Tanks
- Pollution Control Equipments • Turnkey Projects • Air / Gas Drying / Generating Units



# THERMODYNE ENGINEERING SYSTEMS

306-307, Ashish Complex, New Rajdhani Enclave, Vikas Marg, Delhi-110 092

Tel.: +91 11 2205 3721, 2205 9925 Fax: +91 11 4244 0342

Works : A-7/110, UPSIDC Indl. Area, SSGT Road, Vijay Nagar, Ghaziabad-201009

E-mail : info@thermodyneboilers.com www.thermodyneboilers.com