



# Revomax

## Series

### NON-IBR BOILERS



# Revomax Series

Presenting the versatile, fully automatic, instant steam generating range of boilers designed for safe and reliable operations. Easy to install and commission, these time-tested non-IBR boilers are preferred by over 5000 customers.

## Guaranteed Reliability

There are three compelling reasons for choosing from the Revomax Series :

- Improved product through continuous customer feedback
- Incorporating the latest upgrades in manufacturing and Reverse Flame Combustion Technology
- 35 years of Thermax experience with process heating applications

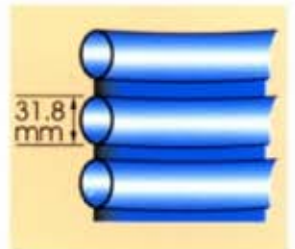
## Consistently High Thermal Efficiency for Years

Efficiency of 88% (based on NCV) is derived from :

- Reverse Flame technology
- Unique patented membrane design
- Built-in heat recovery device

## Superior Design

- Membrane design allows large tube diameter for coil. This enables better steam dryness, less frequent de-scaling, longer coil life and minimum downtime
- Unique economiser - optimiser design ensures maximum heat recovery without possibility of feed water pump failure due to boiling/vapour causing cavitation and pump failure
- Unique circulation burner design prevents leakage and eliminates fire hazard
- Ceramic wool refractory allows fast cooling of top plate and easy maintenance



## Ease of Operations & Maintenance

- Easy access to all parts requiring maintenance
- Powder-coated, well lit control panel for better life in industrial environment and easy monitoring
- Built-in ladder for inspection and maintenance

## Revomax Plus

- For heavy oils
- Offers fuel flexibility between light and heavy oils to help respond to fluctuating fuel prices
- Comes with a changed furnace design and combustion system to burn difficult heavy oils efficiently and effectively



**Revomax**  
for light oils & gas

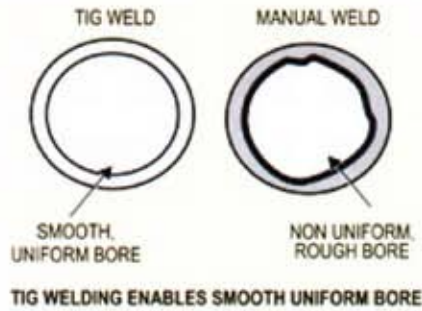


**Revomax Plus**  
for heavy oils

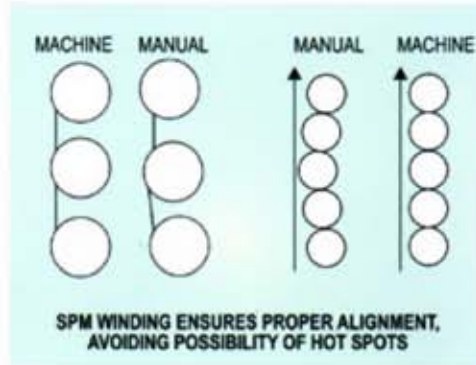
# Manufacturing Excellence

Thermax's manufacturing facilities are located at Pune, India. Among the 14 manufacturing plants there is a dedicated shop for Revomax with special coil winding, welding and testing facilities.

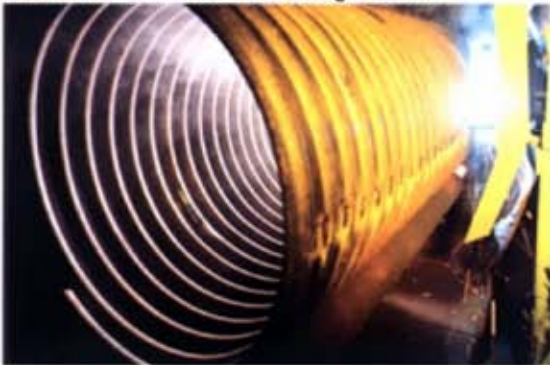
TIG Welding of tubes



Special Purpose Winding Machine for Membrane Wall Furnace



Automatic Membrane Wall Welding Machine

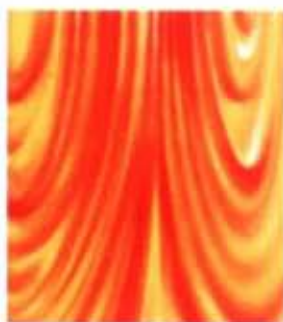
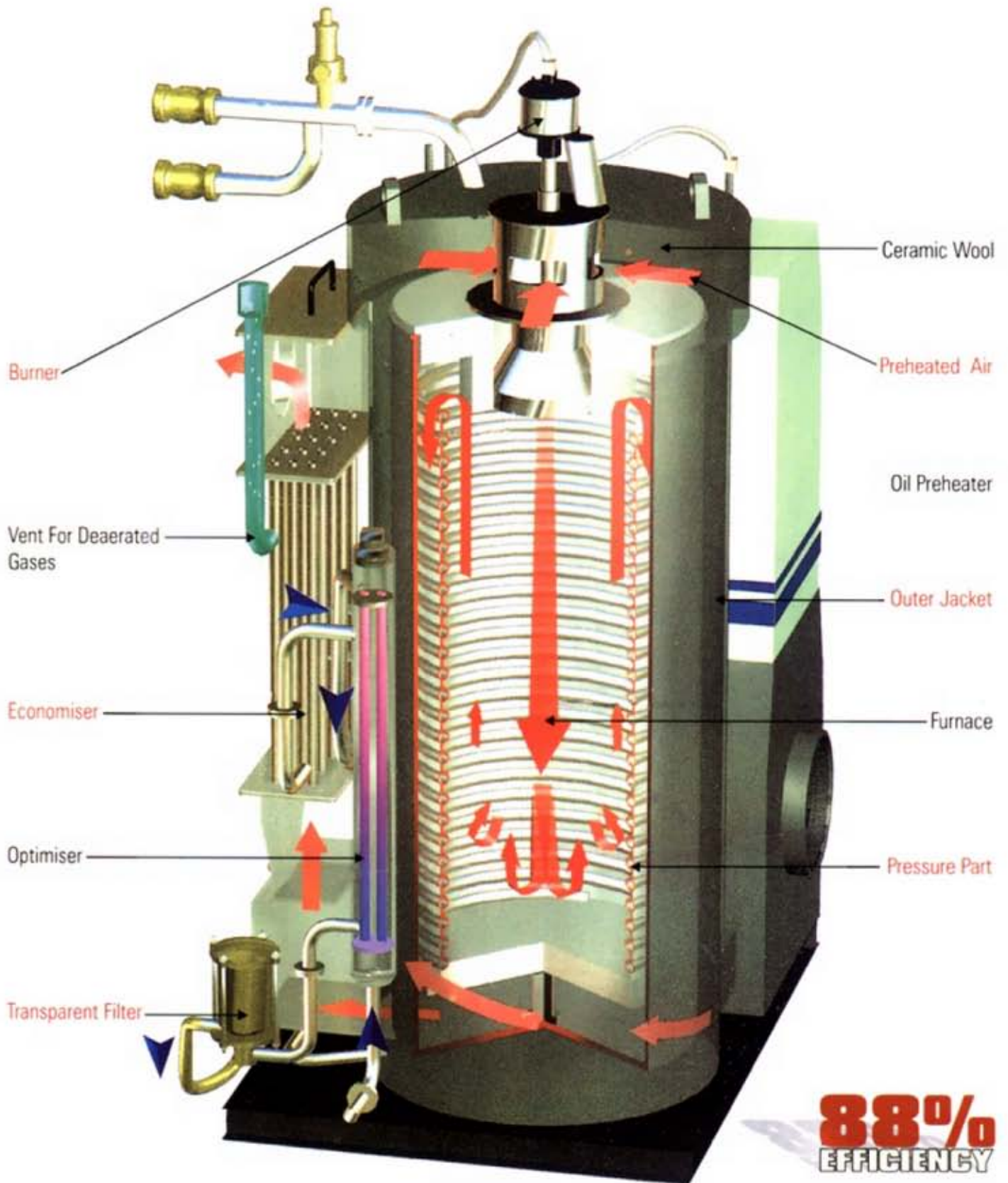


Using best manufacturing processes and practices have enabled Thermax to get recognition from international agencies like ASME, TÜV, Lloyd's etc. Our designing and manufacturing are according to international codes like IBR, ISO, BS, ASME, DIN etc.

Painted Coils



# Engineered for Reliable Performance



## Reverse Flame technology

With this technology the Revomax boiler series ensure complete combustion and consistently high efficiency.

Complete combustion is achieved as the flame reverses in an airtight membrane wall furnace giving ample residence time. Additionally, any unburnt fuel can be burned with oxygen coming in from the burner before flue gases leave the furnace.

# Operating Saving and Parameters

## Fuel consumption & operating costs for a typical 600 kgs/hr (F & A 100°C) unit

Fuel	Rate (Rs/kg)*	Consumption	Cost (Rs.)
FO	10	388 tons	38.01 Lakhs
LDO	13	368 tons	47.84 Lakhs
HSD	20	357 tons	71.49 Lakhs

\*Fuel rates as landed in Pune, Maharashtra. Fuel consumption is for 7200 hrs. of operation

### Savings with FO

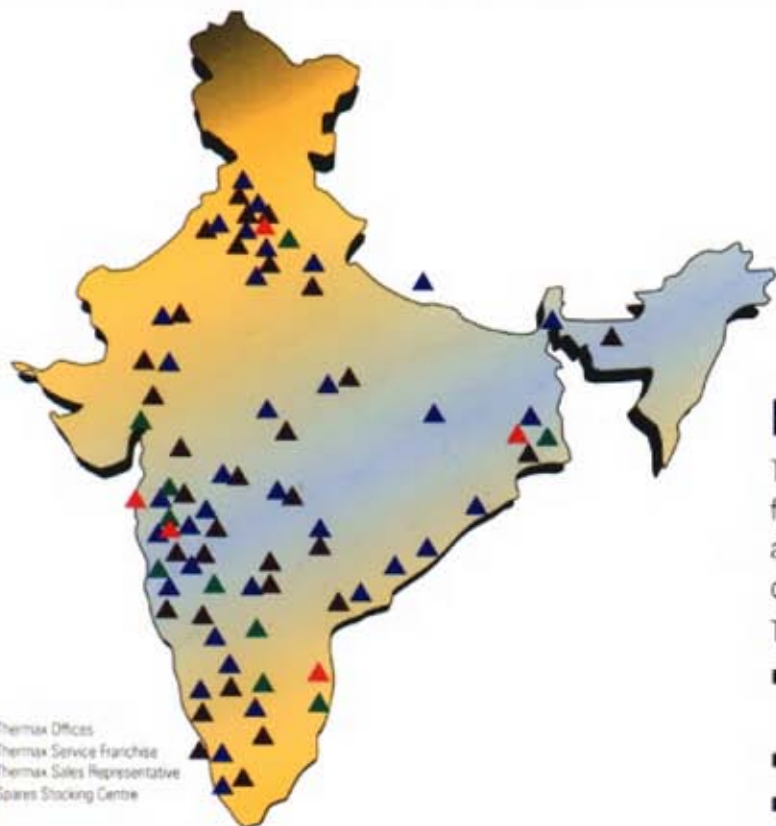
	LDO to FO	HSD to FO
Savings	9.83 lacs	33.48 lacs
Percentage	20%	46.5%



### Technical Specifications

PARAMETERS	UNIT	Revomax					Revomax Plus		
		RXA-02	RXA-03	RXA-04	RXA-05	RXA-06	RXD-04	RXD-06	RXD-850
STEAM OUTPUT (F&A 100°C)	kg/hr.	200	300	400	500	600	400	600	850
STEAM PRESSURE (SVLOP)	kg/cm <sup>2</sup> g	10.54,15.0					10.54, 15.0		
RATED FUEL CONSUMPTION									
Light Oil	kg/hr	12	18	24	30	36	24	36	51.1
FO	kg/hr	--	--	--	--	--	25.4	38.1	54.0
Natural Gas	Nm <sup>3</sup> /hr	14.8	22.2	29.5	37.0	44.3	37.0	44.3	62.8
LPG	Nm <sup>3</sup> /hr	5.5	8.2	10.9	13.7	16.4	13.7	16.4	23.2
TOTAL CONNECTED LOAD (including control panel)	kW	1.9	2.3	3.0	3.2	3.2	5.3	6.2	7.0
OVERALL DIMENSIONS									
Height	m	1.7	2.0	2.0	2.2	2.2	2.2	2.5	3.0
Length	m	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.9
Width	m	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.5
DRY WEIGHT (approx.)	kg	800	1000	1000	1100	1100	1000	1100	1200

Efficiency is calculated as per BS 845 - Part I method. Oil cum gas fired available up to 22 kg/cm<sup>2</sup>. Fuel consumption is based on net calorific value (NCV) of Light Oil : 10,200 kcal/kg, FO : 9650 kcal/kg, Natural Gas : 8500 kcal/Nm<sup>3</sup>, LPG: 22390 kcal/Nm<sup>3</sup>



## Networked for Service

Thermax's highly trained sales and service dealers and franchisees are, today, the industry's benchmark in service and capability. This nationwide network gives you dedicated, efficient and prompt service within 24 hours.

The Thermax network offers:

- System guidance, selection of equipment and accessories
- Annual Service Contract
- Timely spares support
- Full fledged facility for customer training



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