

# REVOMAX™

N-IBR Instant Steam Generator



## Heating Business

### Improving your business is our business

Thermax is an engineering major providing sustainable solutions in the areas of energy and environment. Spanning over 86 countries, clients make use of Thermax's business-to-business solutions for heating, cooling, power and cogeneration plants; waste heat recovery units; systems for water & wastewater management and air pollution control; performance improving chemicals.

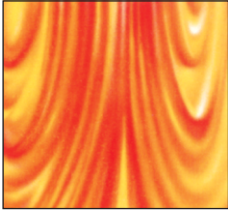
Thermax's operations are supported by ongoing Research & Development, tie-ups with global technology majors, an international sales & service network spread over 27 countries and state-of-the-art manufacturing facilities in 14 locations including India, Indonesia, China, Poland, Denmark and Germany.

As a part of Thermax, Heating business - a strategic business unit offers packaged boilers, thermal oil heaters, waste heat recovery boilers, hot water and air generators. These are available in modular construction as a standard package configuration or a custom design for specific requirements. Innovated by a strong R&D that focuses on customer applications, we offer a range of heating systems designed to combust wide range of solid, oil & gas fuels including biomass and heavy liquid fuels. Heating SBU helps small and medium firms & fortune 500 companies to reduce energy cost with a worldwide presence of oil & gas based systems in Middle East and Europe, biomass and solid fuel fired equipment in South East Asia and Africa.

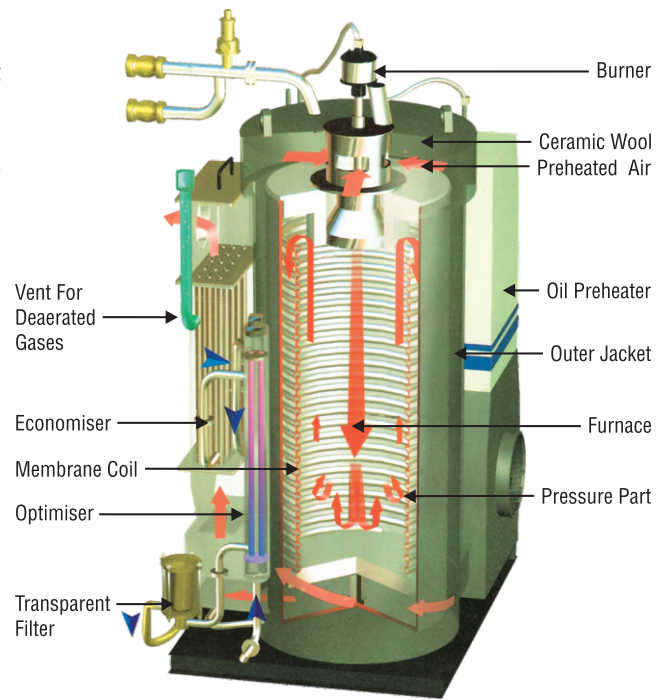
## Engineered for Consistent Performance

Revomax is a 3 pass, once through, forced circulation design compact N-IBR plug & play unit, with multi-fuel firing options ( one at a time ) viz. FO, LDO, HSD, NG and LPG, it is the most efficient instant steam generator in its class, preferred by process industries and the hospitality segment for decades.

## Unique Design Features



- Reverse Flame Technology
  - Provides ample residence time
  - Ensures complete combustion
  - Maintains consistent high thermal efficiency
- Unique Membrane Coil Design
  - Uniform heat transfer leading to enhanced coil life
- Economiser-Optimiser Combination
  - Helps oxygen scavenging, reducing pitting corrosion
  - Ensures reduction in heat loss
- Cyclonic Steam Separator
  - Assures steam dryness up to 92%



## Technical Specifications

Description	Unit	RXA 02	RXA 03	RXA 04	RXA 05	RXA 06	RXD 04	RXD 06	RXD 850	
Capacity (F&A 100°C)	kg / hr	200	300	400	500	600	400	600	850	
Design Pressure (SVLOP)	kg / cm <sup>2</sup> g	10.54 / 17.5								
Efficiency		As Per BS 845 Part 1 NCV Basis								
Oil / Gas	%	88 / 87.5								
Fuel		HSD / LDO / NG / LPG					FO / NG / LPG			
Fuel Firing System		Pressure Jet - Reverse Flue, Dual Bloc								
Fuel Consumption										
HSD	kg / hr	11.69	17.53	23.38	29.22	35.06	23.38	35.06	49.68	
LDO	kg / hr	12.03	18.05	24.06	30.08	36.10	24.06	36.10	51.14	
FO	kg / hr			NA			25.44	38.15	54.05	
NG	Nm <sup>3</sup> / hr	14.52	21.78	29.04	36.30	43.56	29.04	43.56	61.71	
LPG	Nm <sup>3</sup> / hr	4.95	7.42	9.90	12.37	14.85	9.90	14.85	21.03	
Connected Electrical Load										
Light Oil	kW	1.80	2.17	2.17	2.75	2.75	2.17	3.12	3.87	
Gas	kW	1.80	1.80	1.80	2.75	2.75	1.80	2.75	3.50	
Light Oil / Gas	kW	2.17	2.17	2.17	3.12	3.12	2.17	3.12	3.87	
Heavy Oil / Gas	kW			NA			5.17	6.12	6.87	
Dimensions & Weight		Without Separator								
Length	MM	1300	1500	1500	1500	1500	1170	1350	1770	
Width	MM	1080	1280	1280	1400	1400	1480	1350	1420	
Height	MM	1610	2150	2150	2340	2340	2550	2340	2890	
Chimney Top Diameter	MM	180	225	250	275	300	250	300	350	
Dry Weight	Kg	950	1100	1100	1000	1000	1100	1000	1100	

Note: Efficiency is calculated based on NCV of Diesel as 10500 kcal/kg, LPG as 24940 kcal/Nm<sup>3</sup> and Natural Gas as 8500 kcal/Nm<sup>3</sup>. Above mentioned weight and dimensions may vary with actuals. Please refer to offer document for more details.



**THERMAX**

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### Thermax Business Portfolio

- Heating
- Cooling
- Power
- Air Pollution Control
- Chemicals
- Water and Wastewater Solutions
- Solar
- Specialised Services