

# STEAMATIC™

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.

## Unique Design Features

- **Compact plug & play unit**: Skid mounted packaged unit with 3 pass, once through, forced circulation design for instant steam generation.
- **World class monobloc burner**: Ensures silent and efficient operation.
- **Low maintenance**: Large diameter of pressure part tubes makes it less prone to choking, while transparent filter enables online monitoring of contaminants and thus prevent coil failures. The result: less downtime and reduced maintenance costs.
- **Integrated control panel**: Ergonomically designed control panel with visual displays and aesthetically designed frame ensures easy access to all parts, quick maintenance and operator safety.
- **Highest grade safety and control interlocks**: Ensures protection of the unit and its components from high steam temperature and pressure, low/no water flow through the coil, flame failure and motor overload.
- **Dependable performer**: Tried, tested and proven across all industry segments such as garments, hospitality and confectionery, for steam requirements less than 100 kg/hr.



Monobloc Burner



Transparent Filter

## Technical Specifications

Description	Unit	SG 005	SG 01
Capacity (F&A 100°C)	kg / hr	50	100
Design Pressure (SVLOP)	kg / cm <sup>2</sup> g	<b>10.54/ 17.5</b>	
Efficiency		As Per BS 845 Part 1 NCV Basis	
HSD	%	88	
NG / LPG	%	87.5	
Fuel		HSD / NG / LPG	
Fuel Firing System		Monobloc	
Fuel Consumption			
HSD	kg/hr	2.92	5.84
NG	Nm <sup>3</sup> / hr	3.63	7.26
LPG	Nm <sup>3</sup> / hr	1.24	2.47
Connected Electrical Load			
HSD / NG / LPG	kW	1	1.1
Dimensions & Weight			
Length	mm	1000	1115
Width	mm	875	875
Height	mm	1202	1202
Chimney Top Diameter	mm	120	120
Dry Weight	kg	500	550

**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