



Heating



Thermeon-A:
The multi-fuel flexible, efficient, low cost,
reliable source of steam

1500+

live installations globally

Conserving Resources, Preserving the Future.

Thermax provides systems and solutions in the critical domains of energy and environment. The products and services developed by Thermax help industries achieve better resource productivity and improved bottom lines, while maintaining a cleaner environment. The company's vision for the future is firmly anchored in the belief that, to stay competitive, business houses need to adopt sustainable practices.

Thermax's product portfolio covers heating, cooling, water and waste management, and specialty chemicals. The company also designs, builds and commissions large boilers for steam and power generation, turnkey power plants, waste-to-energy systems and air pollution control projects.

Thermeon-A

MSME enterprises often use locally fabricated low-cost steam generators which are unsafe, non-compliant & unreliable. Thermax introduced Thermeon in 2014 with a vision to replace such boiler with a reliable, high-performance boiler. After a stupendous response received from the market, Thermax is pleased to bring to you the improved Thermeon. The new Thermeon retains features of the old version & adds a host of exciting new features.



Thermeon is a 3-pass, hybrid, compact, fully packaged steam generator with a stationary grate combustor. It is the most reliable, safe & affordable solution for process steam requirements of MSME segment. With modular, multi-combustor design it is truly a multi-fuel combustor and can operate with variety of biomass & fossil fuels.

Exciting new features

- » Enhanced capacity range to cater to the growing demand for steam in process
- » Dual-furnace technology with an additional volume of up to 30% that increases the residence time and combustion efficiency
- » Lower FOT leading to reduced chocking and higher uptime
- » Higher water holdup & heat transfer for fast response
- » Multi-combustor adaptability for advanced combustor solutions

Retained features

Reliability

- » Manufactured with state-of-the-art quality standards
- » Combustor made from robust triplex grate bars
- » Superior components checked against stringent quality norms

Operational safety & ergonomics

- » Highest standards for design, quality & testing as per Indian Boiler Regulations
- » Balanced draft system to avoid back-firing
- » Large access ports for ease in fuel charging & ash removal

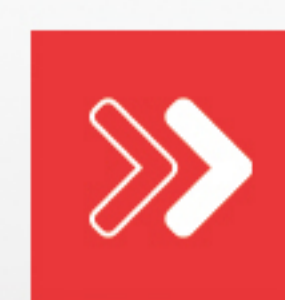
Affordability



Fully packaged boiler supplied from factory in pre-insulated condition & all components assembled



Ideal replacement for fossil fuel boiler



Compact design, minimal site work for installation

Technical specifications

Sr.No	Description	Unit	TEON-A 300	TEON-A 500	TEON-A 750	TEON-A 1000	TEON-A 1500	TEON-A 2000
1	Max steam output (F&A 100° C)	kg/hr	300	500	750	1000	1500	2000
2	Thermal Parameters							
2.1	Design Pressure (SVLOP)	kg/cm ² (g)	7	7	10.54	10.54	10.54	10.54
3	Efficiency on NCV Basis (%)							
3.1	Indian coal / Woodlogs	%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%
3.2	Husk briquettes	%	72.5%	72.5%	72.5%	72.5%	72.5%	72.5%
3.3	Indonesian coal	%	74.0%	74.0%	74.0%	74.0%	74.0%	74.0%
3.4	Cashew shell	%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%
4	Fuel consumption @100% Load							
4.1	Coal (Indian)	kg/hr	52	86	129	172	259	345
4.2	Woodlogs	kg/hr	75	125	188	251	376	502
4.3	Husk briquettes	kg/hr	67	111	166	222	333	444
4.4	Indonesian coal	kg/hr	40	66	99	132	198	264
4.5	Cashew shell	kg/hr	52	87	130	174	261	347
5	Connected Load							
5.1	With Opticlone	kW	11.1	11.1	9.65	10.75	10.95	13.1
5.2	Without Opticlone	kW	6.8	10.6	9.2	10.3	10.5	8.8
6	Design Code (IBR 1950 with latest amendments)		SIBR	SIBR	IBR	IBR	IBR	IBR
7	Type of Combustor		Horizontal fixed grate	Horizontal fixed grate	Horizontal fixed grate	Horizontal fixed grate	Horizontal fixed grate	Horizontal fixed grate
8	Overall Size of the Boiler with HRU							
8.1	Length	m	2.7	2.7	3.2	4.0	4.5	4.5
8.2	Width	m	1.8	1.9	2.4	2.5	2.6	2.7
8.3	Height	m	2.7	2.9	3.4	3.6	3.7	3.9
9	Dry Weight of the Boiler Skid Assembly	kg	4600	5000	8000	9900	12700	15300

Industry applications



Steaming process in cashew nut manufacturing



Milk dairy, milk pasteurization, sweet meats



Mango pulp, fruit juice & beverage manufacturing



Noodles and pasta manufacturing, fish processing



Syrup heating in confectionery-candy manufacturing



Hotels, hospitals & institutions



Textiles, garments & laundries



Chemicals & pharmaceuticals



And more

Conserving Resources,
Preserving the Future.



Air Pollution
Control



Boiler and
Heater



Build-Own
-Operate



Chemical



Cooling



Projects and
Energy
Solutions



Process
Heating



Renewable
Energy



Water and Waste
Solutions

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