Conserving Resources,
Preserving the Future.

THERMAX

Air Pollution Control

steam genera-tor and Heater

Build-Own -Operate

Chemical

Cooling

Projects and Energy Solutions

Process Heating

Renewable Energy

Water and Waste Solutions

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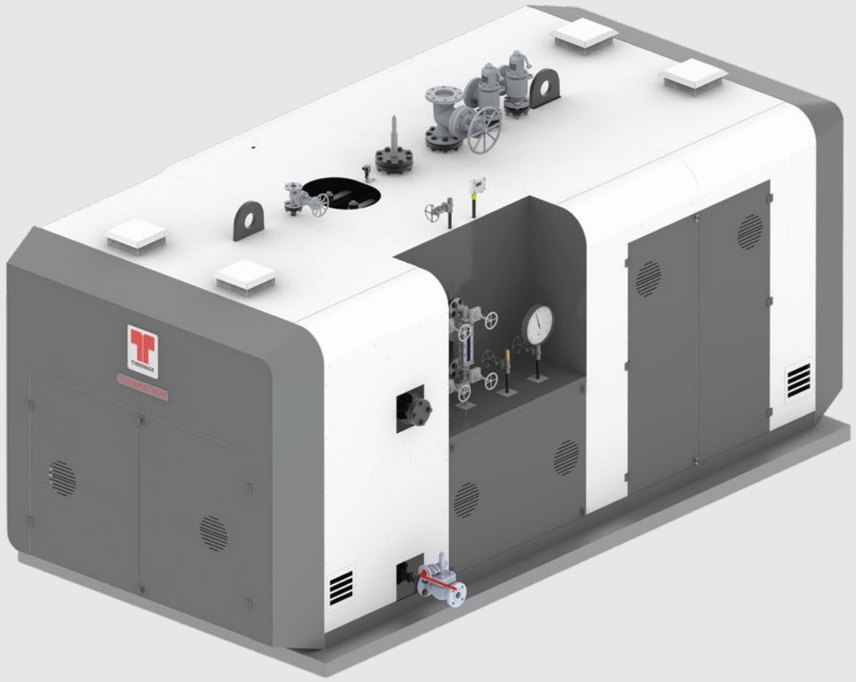
Process Heat Solutions

THERMAX

Thermotron™

Electric process heating solutions for your sustainability goals



Capacity: 400 to 6000 kg/hr
Standard Design Pressure: 10.54 kg/cm2

Conserving Resources, Preserving the Future.

Thermax is a leading conglomerate in the energy and environment space and a trusted partner in energy transition. Thermax's extensive portfolio includes clean air, clean energy, clean water and chemical solutions. Backed by its longstanding industry partnerships across multiple sectors, Thermax has cultivated strong expertise in audit, consulting, execution, and maintenance coupled with digital solutions, ensuring a unified energy-management experience. Leveraging its distinctive engineering capabilities, Thermax converts costs to profits while protecting the environment – a win-win for the industry and society at large.

Thermowiz ™ Nxt -

Advanced electrical control system

Experience the power of technology with Thermowiz™ Nxt, a digitally powered device for monitoring, control, and protection of equipment.

- **User comfort** - Touch screen graphical operator interface
- **MIS reporting** - Real-time trends, and data logging downloadable on a USB drive
- **Networking** - Embedded ports on Ethernet, Serial, CAN Open protocols
- **Program modification** - Download programs through a USB drive

Thermotron - Electric process heating solution for your sustainability goals

Industries worldwide are switching to innovative solutions for a sustainable and greener tomorrow. Today, a sea of change is seen in how organisations treat "Sustainability" as an important business goal.

With its decades of experience, Thermax constantly innovates to bring out technologies that strike the right balance between growth and the environment. Thermotron™, an electric boiler from Thermax, helps meet sustainability goals by accelerating industrial decarbonisation. This compact unit offers heat for industrial processes from steam generated from electricity at an efficiency of 99%.

Feature - Benefits

Zero emission
- No air pollution
- No hazardous residue

Packaged and modularisedconstruction
- Ease of transportation and installation
- Portability
- Plug & Play

No moving parts and refractory
- Silent operations
- Low operations

Best in class performance
- Efficiency of 99%
- Dryness fraction of 98%
- Consistent efficiency at part load

Highest Uptime
- High reliability
- Ease of maintenance
- Highest MTBF*

Simplified system and compact layout
- No Fuel storage & handling systems
- No ash handling systems
- No pollution control equipment
- No heat recovery equipment required

Quick steam generation
- Low start-up loss
- Better response to fluctuating load conditions

*MTBF - Mean Time Between Failures

Smart MCC

- Monitoring of electrical consumption
- Electrical protection systems
- No control cabling

THERMAX EDGE™ Live

An Enterprise Asset Performance Enhancement Solution

Thermotron comes enabled with EDGE™ Live, an intelligent IIoT solution for digital logging of and access to all critical parameters.

- Online remote monitoring
- Access to data on all critical parameters
- Timely alarms

Thyristor-based

Thermotron comes with an option of a new-age thyristor-based control to offer step-less turndown for precise control. The thyristor control allows true linear-modulation control with stepless turndown. This provides precise boiler pressure control, and eliminates electrical contactor cycling. This reduces power surges.

Technical Specifications

Thermotron technical specification – 04 to 6 tph – 10.54 kg/cm²(g)											
DESCRIPTION	UNITS	TEB 04	TEB 06	TEB 08	TEB 10	TEB 15	TEB 20	TEB 30	TEB 40	TEB 50	TEB 60
General											
Gross Steam Output F & A 100°C with 415 V power supply*	Kg/hr	400	600	800	1000	1500	2000	3000	4000	5000	6000
Power Consumed by Heating Elements	kw	256	384	512	640	960	1280	1920	2560	3200	3840
Design Pressure	Kg/cm²(g)	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
Thermal Efficiency (as per BS 845 Part-1 -indirect method)	%	99.0%	99.0%	99.0%	99.0%	99.0%	99.0%	99.0%	99.0%	99.0%	99.0%
Power Source											
Heating Element	Electrical resistive heating element assembly of 64 kW / 415 V, 3-phase delta connected										
Connected Load with 415 V Power Supply	kw	258	386	514	642	963	1283	1924	2564	3205	3845
Power	415 Volts ±6% ; 50 Hz ±3% ; 3 Ph, 3/4 Wire										
Flooded Weight	kg	5200	5900	6900	7800	9600	12100	13400	15100	17900	19200
Boiler Dimensions											
Length	mm	4110	4110	4110	4265	4265	4265	4710	4710	5060	5060
Width	mm	1400	1530	1700	2010	2375	2200	2200	2200	2510	2510
Height	mm	1700	1700	1845	2005	2410	2410	2410	2500	2835	2860
Control Panel Dimensions											
Length	mm	1900	1900	1900	1900	2600	2600	3300	4700	5400	6100
Width	mm	500	500	1000	1000	1000	1000	1000	1000	1000	1000
Height	mm	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100

*Thyristor-based control is optional