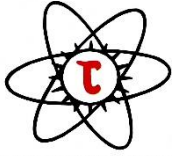


THERM TECH ENGINEERING CO.



THERM TECH

Fact : Plot no. 48, Sector-57, Phase –IV, HSIIDC, Kundli, Dist.- Sonapat, Haryana

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Therm Tech Water Heater

Hot Water Generator is a well-organized and lucrative way to generate hot water instantly. It is designed exclusively for the hot water requirements at Hotels, Hospitals, Resorts, Swimming pools, Dairies, Laundries and various other process industries.

Hot Water Generators fired by extensive range of fuels. Hot Water Generators are available in both Solid Fuel firing as well as LDO / Gas / Dual Fuel firing variants so that you get the advantage of economically available fuels. The Therm Tech is designed on the coil type once through, forced circulation principle and to use heat transfer fluids without risk of chemical degradation.



CONTROLS AND SAFETIES

- Interlock for water circulation pump
- Motor trip indication lamp on control panel
- Low level in water supply tank
- High hot water supply as well as return temperature
- Separate pressure switch for low flow / no flow & high pressure
- Flame monitor through LDR / UV Cell

**Therm Tech Water Heaters
Gas/Diesel Fired**

Why choose us?

- ❖ Our industrial heaters promise high performances and are built using the latest technology.
- ❖ All our products are designed keeping in mind the customer's needs.
- ❖ Our heating units are built for high durability, less noise, maximum efficiency, and reliability.
- ❖ Our expert team strictly follows the total quality management.

DESIGN AND CONSTRUCTION

The internal combustion chamber is used to accommodate concentric helical tube coil, which is placed in a single insulated shell of mild steel construction. This type of design helps in economizing the space and simultaneously ensures optimum rate of heat release. Due to elimination of extensive use of refractory, it permits rapid start up and operational and maintenance flexibility.



**Therm Tech Water Heaters
Wood Fired**

Advantages of Therm Tech Air Heaters

- Easy access for inspection & cleaning
- Fully automatic in operation

- Easy access to all parts for maintenance
- Efficient Heat Transfer with optimum combustion

- Long life of Hot Water Generators
- Robust & reliable components with optimum maintenance for blower, pump & other controls.

Salient Features of Therm Tech Water Heaters

- Efficient Heat Transfer with optimum combustion
- Long life of Hot Water Generators
- Easy access for inspection & cleaning
- Energy Efficient
- Fully automatic in operation
- Easy access to all parts for maintenance
- Robust & reliable components with optimum maintenance for blower, pump & other controls.
- Powder coated control panel with systematic wiring layout with ferrule numbers etc. for easy trouble shooting as well as for better performance

Applications of Therm Tech Water Heaters

- ❖ Tire manufacturing industries
- ❖ Pharmaceutical & drugs
- ❖ Food processing
- ❖ Ceramic Industries
- ❖ Hospitals
- ❖ Laundries
- ❖ Dairies
- ❖ Textiles Industries
- ❖ Packing
- ❖ Hotels/Resorts

COMBUSTION

A fuel atomising pressure-jet burner is placed vertically downward in the combustion. Near the tip of burner air is swirled through diffuser plate and mixes with atomized fuel which achieve total combustion in the furnace.

BURNER AND FUEL SYSTEM

From fuel oil tank, the oil goes to a filter then into a fuel pump. Through the fuel pump it is passed into an electrically heated oil pre-heating tank (this is in case of F.O.) and then forced to burner. The hot water generator is supplied with pressure-jet burner of highly compact rugged and simple design. The burner is fully automatic.

INSTRUMENTATION AND CONTROL

Therm Tech is fully automatic water heater. The unattended operation is possible only due to reliable instrumentation system incorporated. This includes total safety interlocks and alarms mounted on control panel box.

NO CORROSION OR SCALE FORMATION

The heat transfer fluids used in the Therm Tech are of mineral origin and do not contain any dissolved solids which cause corrosion or lead scale formation. Because of this, thermal efficiency remains uniformly high, and this is sustained over a long period.

Each Therm Tech is rigidly tested before delivery and it is commissioned by our trained engineers. Therm Tech limited has an efficient, attentive AFTER-SERVICE including routine servicing and supply of spare parts.

Financial Benefits

- ❖ Capacity range from 50,000 kcal/hr to 20,00,000 kcal/hr.
- ❖ Fuel options LDO / Natural Gas / LPG / Coal / Wood / Briquettes / Pallets / Electricity
- ❖ Auto / Manual operation
- ❖ Control on-off / Two Stage (Low-High)
- ❖ 86% efficiency for LDO/GAS fired & 76% for Solid Fuel fired
- ❖ 90°C maximum hot water outlet temperature
- ❖ 120°C maximum hot water outlet temperature through pressurized system
- ❖ In house burner manufacturing with modes of pressure jet type, fully automatic etc.

After-sales Service

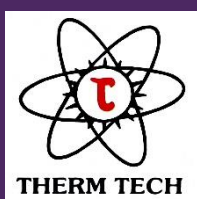
A fully trained and competent team of service engineers is available for quick servicing whenever necessary. Our Office are equipped with essential instruments, tools and spares required for wide variety of maintenance and repair.

Our constant endeavor is to improve the design as a consequence of which the specifications are subject to change without notice. Illustrations are representative only and subject to modifications.

Water Heater High Pressure Coil Type Diesel/Gas Fired

Model	Unit	WH-01	WH-02	WH-04	WH-06	WH-10	WH-15	WH-20	WH-25	WH-30
Heat Performance										
Heat Load	kcal/hr	100000	200000	400000	600000	1000000	1500000	2000000	2500000	3000000
Max. Outlet Temp.	°C	140								
Fuel Consumption										
Thermal Efficiency	%	90±2 Based on Fuel GCV								
Diesel Consumption	kg/hr	10.9	21.8	43.6	65.4	109	163.4	218	272	327
PNG Consumption	m3/hr	13	26	52	78	130	195	260	325	390
LPG Consumption	kg/hr	8.7	17.4	34.8	52.2	87	130.4	174	217	261
Heater Construction Features										
Coil Holding Capacity	liter	55	70	245	308	510	997	1360	2340	2795
Expansion Tank Capacity	liter	200	200	250	300	350	500	650	850	1000
Pressure Drop on Coil Side	mlc	15								
Overall Coil Assembly Height	mm	1400	1525	2000	2500	3000	3700	4200	4900	5750
Material of Construction										
Tube	ERW as per BS 3059 part 1 Gr. 320									
Tube Outer Diameter	mm	31.75	31.75	50.8	50.8	50.8	63.5	63.5	76.2	76.2
Tube Thickness	mm	3.25	3.25	3.66	3.66	3.66	3.66	3.66	3.66	3.66
Water Circulation Pump										
Water Flow Rate	m3/hr	4	9	17	25	42	63	84	105	126
Head	mlc	42	50	50	50	50	50	50	50	50
Power rating	HP	3	5	7.5	10	15	20	25	30	40
Model	Air Cooled	32*160	32*200	40*200	50*200	65*200	65*200	80*200	100*200	100*200

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Note: We reserve the right to change any specifications without prior notice.