

HOT-WATER GENERATOR SYSTEMS



STEAMTHERM

Pressurised Hot Water Generator

Steamtherm hot water generator produces hot water at a temperature as high as 140°C within a few minutes of cold start. The technology innovation of Steam therm lies in the use of water in its liquid phase to transfer heat to the process.

Product Feature:

- Three-pass thermally efficient design results in lowest fuel bills
- Fully automatic
- Multi-fuel option – light oils/heavy oils/gases
- High efficiency of about 90%
- Can be custom-built to provide outlet temperature up to 225°C
- No boiler regulations – water generates heat without changing its liquid phase

Operating Range

- Capacities: from 0.2 million kcal/hr to 2.0 million kcal/hr
- Design pressure: up to 4 kg/cm² (g)
- Steam temperature: up to 140°C



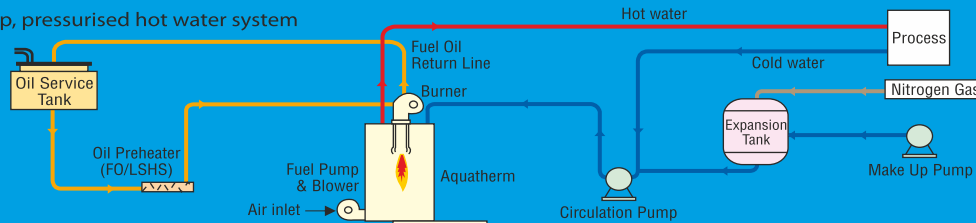
STEAMTHERM (ATHM 01 & 02)
With monobloc burner

Unique Design Features

- 3 pass design - Ensures maximum thermal efficiency.
- Closed loop system - Steamtherm is a closed loop heating system wherein water is used as heating medium, thereby making water treatment redundant, unlike conventional heating systems.
- Lower operating costs - Lower viscosity and low flow rate of water helps in reducing pumping and piping costs of the whole system, thus effectively reducing operation and maintenance costs. Initial and topping up costs are also minimal, as water is the heating medium.
- Clean and safe operation - Steamtherm comes with reliable safety interlocks to insure safe operating conditions. Use of water as medium of heat exchange also eliminates fire hazard in the system as opposed to thermal oil heating.
- Contamination free - Risk of contamination is eliminated, unlike thermic fluid heating where leakages can contaminate the end product.
- Ideal industry solution - Aquatherm is the most reliable solution for industries like dairy, pharmaceutical, chemical, automobile, painting, drug and food processing industries.

P & I Scheme

Closed loop, pressurised hot water system



Technical Specifications

Description	Unit	ATHM 01	ATHM 02	ATHDi 04	ATHDi 06	ATHDi 10	ATHDi 15	ATHDi 20	ATHDi 25	
Capacity	kcal / hr	100000	200000	400000	600000	1000000	1500000	2000000	2500000	
Maximum Outlet Temperature	°C	140								
Water Flow Rate	m ³ / hr	4	9	17	25	42	63	84	105	
Temperature Difference (Δt)	°C	25	22	24						
Efficiency		As Per BS 845 Part 1 NCV Basis								
HSD / LDO / FO	%	90								
NG / LPG	%	89.5								
Orientation		Horizontal				Vertical				
Fuel		HSD / NG / LPG				HSD / LDO / FO / NG / LPG				
Fuel Firing System		Mono Bloc				Pressure Jet, Dual Bloc				
Fuel Consumption										
HSD	kg / hr	11	22	42.30	63.50	105.80	158.70	211.60	264.60	
LDO	kg / hr	11	22	43.60	65.40	108.90	163.40	217.90	272.30	
FO	kg / hr	NA	NA	46.10	69.10	115.10	172.70	230.30	287.90	
NG	Nm ³ / hr	13.10	26.30	52.60	78.90	131.40	197.20	262.90	328.60	
LPG	Nm ³ / hr	4.50	9.00	17.90	26.90	44.80	67.20	89.60	112.00	
Connected Electrical Load										
HSD / LDO	kW	3.0	3.0	6.5	8.5	11.0	15.0	23.0	26.0	
FO	kW	NA	NA	9.5	14.5	20.0	27.0	37.5	44.0	
NG / LPG	kW	3.0	3.0	6.5	8.5	10.0	14.0	21.5	23.5	
Dimensions & Weight										
L x W x H	m	2.3x0.95x1.5	2.41x1.03x1.4	2.6x2.95x3.16	2.6x2.95x3.56	3.9x2.8x4.4	4.18x3.35x5.20	4.45x3.35x5.81	4.95x3.84x5.99	
Chimney Top Diameter	mm	150	200	250	275	450	550	600	675	
Dry Weight	kg	1200	1500	2100	2265	4000	5500	6200	8000	



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STEAMMATIC

Compact & Instant Hot Water Generator



Steammatic is a closed-loop, compact hot water generator providing water at a maximum outlet temperature of 90°C.

Product Features

Horizontal unit with calorifier (optional) that requires no foundation and can be easily accommodated in basements

- Single button start
- High efficiency of about 93%
- Low electrical load giving more than 50% savings over electrical geysers
- Easy to operate and maintain

Operating Range

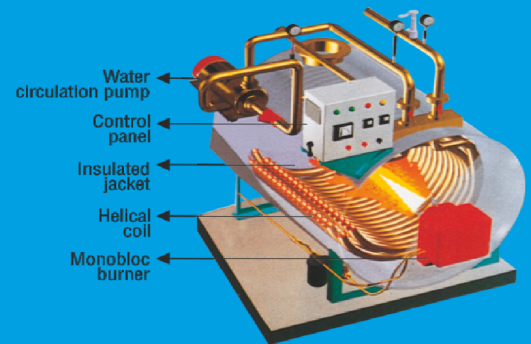
- Capacities: 0.05 million kcal/hr to 0.60 million kcal/hr
- Design pressure: Up to 4 kg/cm² (g)
- Steam temperature: Up to 90°C
- Firing fuels: HSD & gas with an efficiency of 93% (+/- 2%) on Net Calorific Value (NCV)



Unique Design Features

- Pre insulated, plug and play unit.
- Compact pre-wired unit, with control panel and pump mounted on it.
- Calorifier (Optional) instead of direct mixing tank ensures instant start up and dispenses with the requirement for softener on primary circuit.
- Easy to operate and maintain.
- Quick response to sudden surge in hot water requirement.

Applications



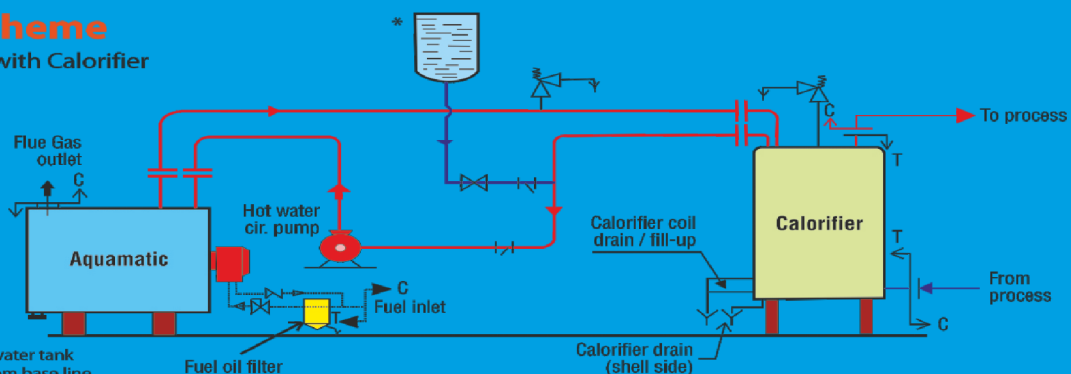
Technical Specifications

Description	Unit	AMW 005	AMW 01	AMW 02	AMW 03	AMW 04	AMW 06
Capacity	kcal / hr	50000	100000	200000	300000	400000	600000
Maximum Outlet Temperature	°C	90					
Water Flow Rate	m ³ / hr	4	9	12	18	20	30
Temperature Difference (Δt)	°C	13	11	17	17	20	20
Efficiency		As Per BS 845 Part 1 NCV Basis					
Diesel (HSD)	%	93					
Gas (NG / LPG)	%	92.5					
Fuel		HSD / LPG / NG					
Fuel Firing System		Pressure Jet, Mono-Bloc					
Fuel Consumption							
HSD	kg / hr	5.12	10.24	20.48	30.72	40.96	61.44
NG	Nm ³ / hr	6.36	12.72	25.44	38.16	50.87	76.31
LPG	Nm ³ / hr	2.17	4.33	8.67	13.00	17.34	26.01
Connected Electrical Load							
HSD / NG / LPG	kW	1.53	2.33	3.08	4.95	5.15	7.30
Dimensions & Weight		Without Calorifier					
L x W x H	m	1.07x0.95x0.91	1.33x1.25x1.92	1.5x1.2x1.87	2.24x1.38x2.23	2.24x1.38x2.23	2.81x1.55x2.51
Dry Weight	kg	500	875	899	1500	1500	2270
Dimensions & Weight		With Calorifier					
L x W x H	m	1.2x2.08x1.7	1.34x2.12x1.9	1.55x2.33x1.95	2.25x2.60x2.25	2.25x2.70x2.41	2.81x3.07x2.67
Dry Weight	kg	1175	1550	1900	3100	3100	3566
Chimney Top Diameter	mm	150	200	200	250	250	250

Note: Efficiency is calculated based on NCV of Diesel as 10600 kcal/kg, LPG as 24940 kcal/Nm³ and Natural Gas as 8500 kcal/Nm³. Above mentioned weight and dimensions connected load may vary with actuals. Please refer to offer document for more details.

P & I Scheme

Aquamatic with Calorifier



Note : * Treated water tank height 3-4 mtr from base line