

AQUATHERM™

Pressurised Hot Water 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

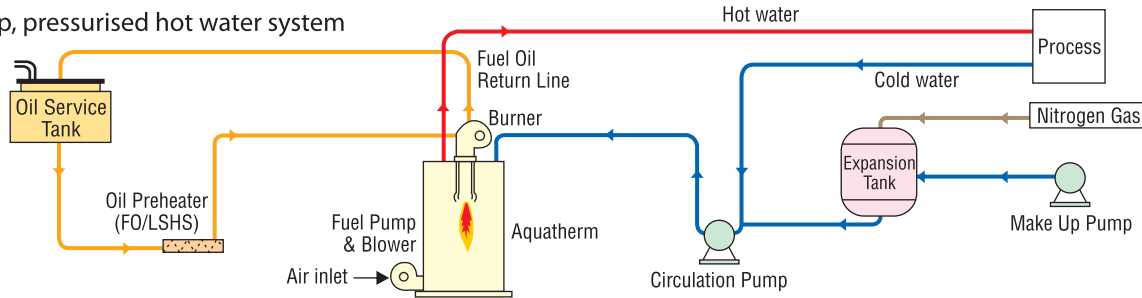
- 3 pass design - Ensures maximum thermal efficiency.
- Closed loop system - Aquatherm is a closed loop heating system wherein water is used as heating medium, thereby making water treatment redundant, unlike conventional heating systems.
- Lower operating costs - Lower viscosity and low flow rate of 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 - Aquatherm 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.



Aquatherm (ATHM 01 & 02) with monobloc burner

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

Note : Efficiency is calculated based on NCV of Diesel as 10500 kcal/kg, LPG as 24940 kcal/Nm³ and Natural Gas as 8500 kcal/Nm³. 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

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- Solar
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