



HOT WATER BOILER

HOT WATER GENERATORS IN
SINGLE FLAME TUBE DESIGN

About GETABEC

GETABEC is one of the famous and leading Boiler and Pressure Vessel manufacturers in Asia, founded in 1983.



GETABEC can manufacture Steam Boiler, Hot Water Boiler, Waste Heat Boiler, Thermal Oil Heater and Pressure Vessel comply with ASME, EN, PED (CE Mark), DIN, BS, etc. Our work-shops have been qualified and received international ISO 9001:2015 certificates, Certificates Registration No. 04100630469 by TUV NORD and S, U, R, PP as authorized manufacturer of ASME code for Boiler and Pressure Vessel. GETABEC also manufactures Boiler under license of SCHNEIDER-KESSEL Berlin for Fire-Tube Boiler, Eckrohrkessel (ERK) Berlin for Water Tube and Waste Heat Boiler.

GETABEC is a long-time cooperated partner of SAACKE Burner, Bremen for Sales and service in Thailand. GETABEC has marketed their Boiler and service world-wide and well accepted by many famous international companies.



“To be a global leader in Industrial Steam Boiler and energy solution provider”

CERTIFICATES



GETABECKESSEL

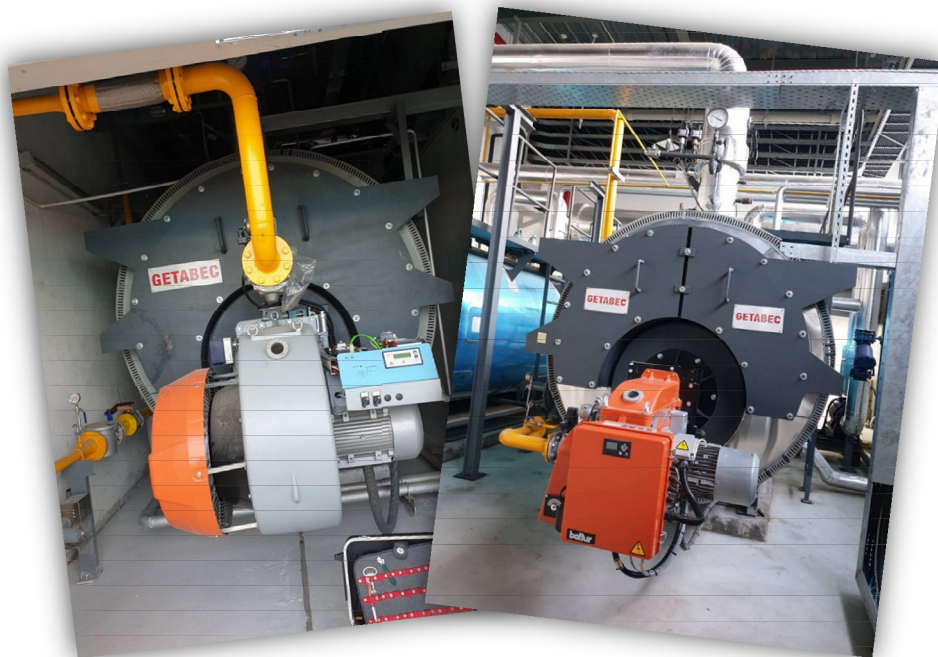
GETABECKESSEL and GETABEC furnace tube boilers that we produce are high efficient hot water boilers for every application, in various designs with energy saving system and fully automatic operation without need to constant supervise. These boilers are wet-back design principle. The water content can be quickly transformed into hot water. Our boilers always have sufficient steam reserve, even during sudden peak demand period. Using gas, oil or dual fuel burner, the flame intensity is matched virtually instantly to the hot water consumption, taking into account the fuel characteristic. Another positive factor is that a large furnace tube effectively reduces the NOx emission.

GETABECKESSEL can cope easily with peak and low demand periods for steam or hot water. Output per boiler from 650 kW. to 9700 kW.

GETABECKESSEL can produce high-pressure hot water as required by local heat, district heat and process heat, from the individual boiler to large boiler plant, including feed water treatment system, feed water storage and deaerator, with heat recovery assembly, with noise suppression, with special components. Upon request, we can also show you operation reference installations.

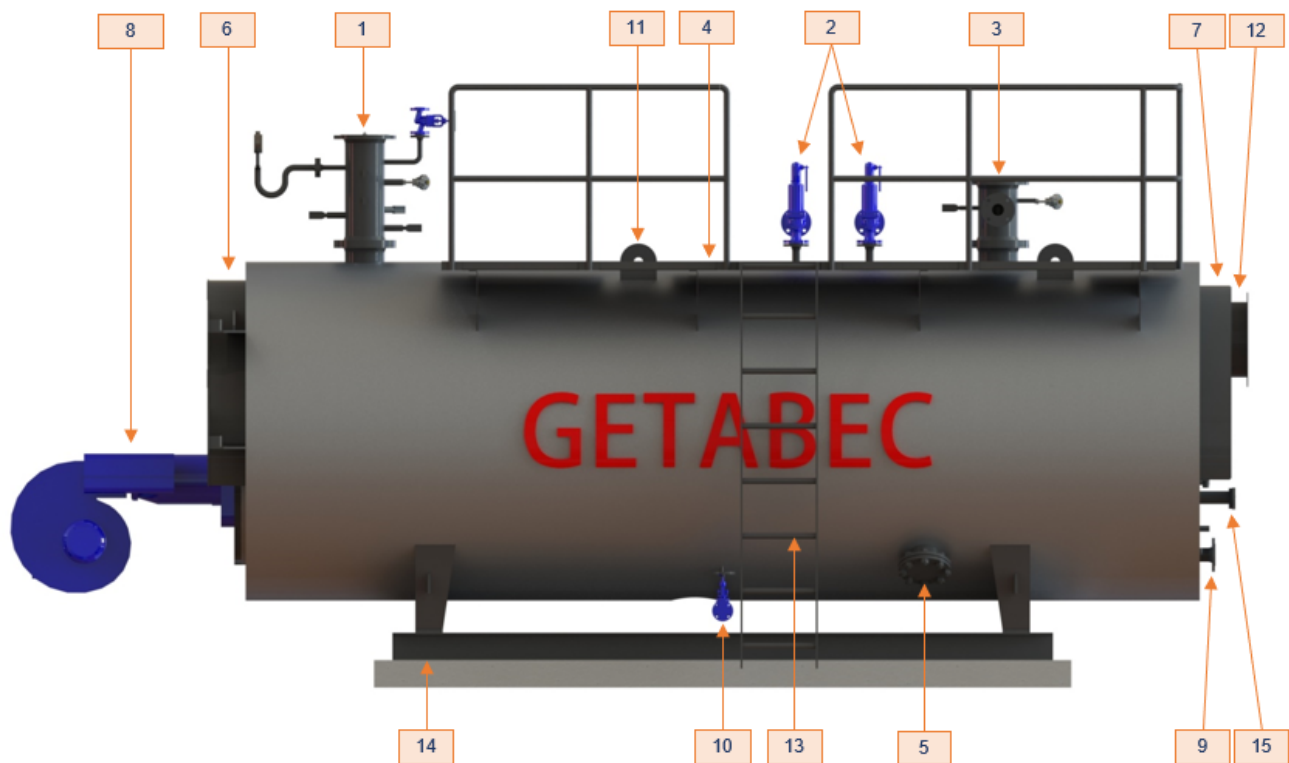
Our qualified Service Engineers and Technicians can offer complete After Sales Services and spare parts.

EFFICIENCY UP TO 90-94%



“GETABEC is power, power is Hot Water”

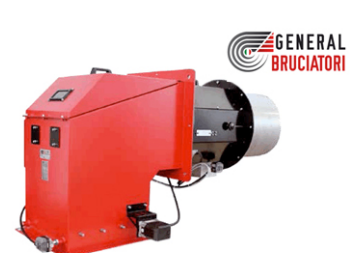
INSTRUMENT & EQUIPMENT



1. Supply Line
2. Safety Valve
3. Return Line
4. Man Hole
5. Hand Hole / Head Hole
6. Front reversal chamber
7. Flue gas chamber
8. Burner

9. Connection to Expansion tank
10. Drain
11. Lifting Lug
12. Flue gas outlet
13. Platform & Ladder
14. Base frame
15. Flame Inspection Hole

Burner





Hot Water Boiler Wet-Back Design Principle.

FEATURES	Model HWB											
	650/10	1000/10	1300/10	1600/10	2000/10	2600/10	3200/10	3900/10	5200/10	6500/10	7800/10	9700/10
Thermal capacity (kW)	650	1000	1300	1600	2000	2600	3200	3900	5200	6500	7800	9700
Heat Input (kW)	710	1071	1416	1726	2165	2788	3406	4186	5539	6920	8244	10289
Design Pressure	10 Bar G											
Operating Pressure	8 Bar G											
Draught loss (mbar)	3.7	3.7	6.0	4.7	4.6	4.4	3.8	4.5	5.9	5.8	5.7	11.2
Flue gas flow rate (Nm ³ /hr.)	766	1175	1553	1893	2374	3179	3861	4734	6265	7837	9346	11638
Length of flame tube without revers chamber (mm)	2008	2610	2484	2664	3062	3510	4510	4468	4874	4814	5162	5414
Inner flame tube diameter (mm)	650	750	750	750	810	900	900	950	1100	1180	1360	1500
Heating Surface (m ²)	22.8	40	45	55	65	90	103	117	179	220	246	261

TECHNICAL DATA (HWB-Model)

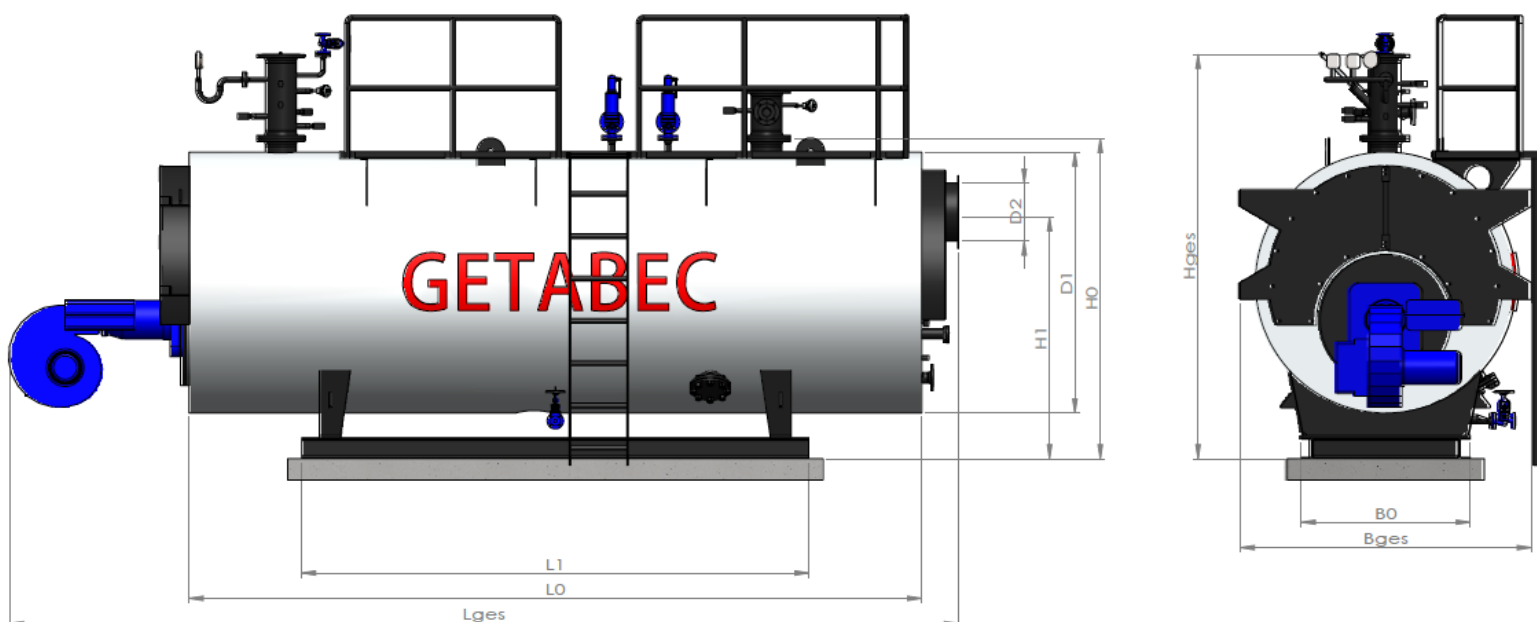
PRESSURE 10 BAR



FEATURES	Model HWB											
	650/10	1000/10	1300/10	1600/10	2000/10	2600/10	3200/10	3900/10	5200/10	6500/10	7800/10	9700/10
Lower Heating Value :												
-Heavy Fuel Oil	40700 kJ/kg											
-Light Oil	42700 kJ/kg											
-Natural Gas	36000 kJ/Nm³											
Excess Air :												
-Heavy Fuel Oil	1.2											
-Light Oil	1.1											
-Natural Gas	1.05											
Efficiency without Economizer (%) :												
-Heavy Fuel Oil	92.89	93.28	91.86	92.83	92.23	93.46	94.10	92.62	93.36	93.42	94.14	93.80
-Light Oil	93.31	93.67	92.17	93.36	92.68	94.11	94.80	93.41	94.08	94.14	94.80	94.48
-Natural Gas	93.93	93.37	91.21	93.14	92.40	93.93	94.59	93.18	93.88	93.94	94.61	94.27
Consumption :												
-Heavy fuel oil (kg/hr)	62	96	125	152	191	245	301	372	491	641	733	913
-Light oil (kg/hr)	59	90	118	144	182	232	285	351	465	581	694	864
-Natural gas (Nm³/hr)	70	108	141	171	216	276	338	418	553	691	825	1027

Main dimensions

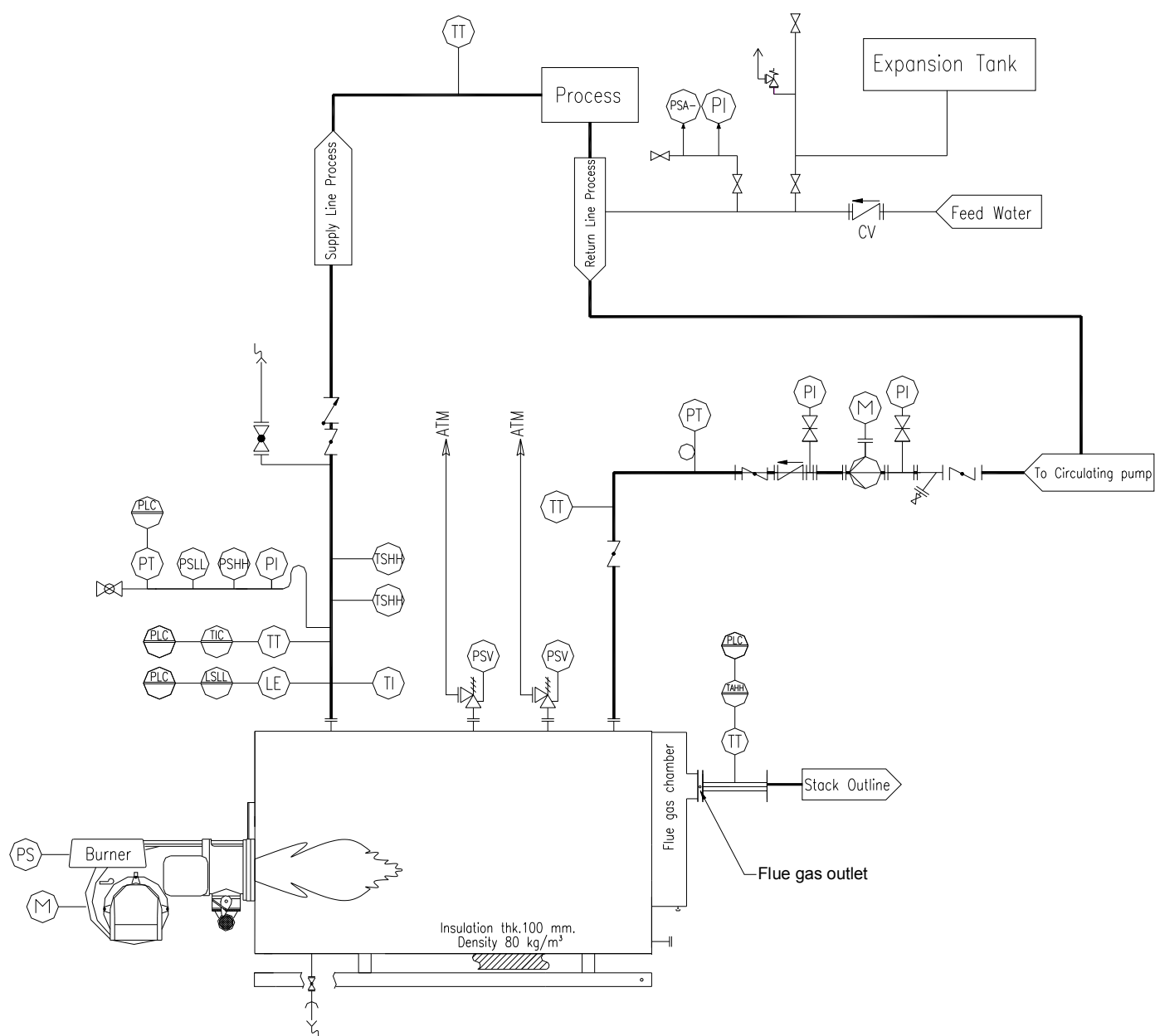
PRESSURE 10 BAR



DIMENSION OF HOT WATER BOILER

SIZE (kW)	650	1000	1300	1600	2000	2600	3200	3900	5200	6500	7800	9700
D ₁ (mm.)	1300	1500	1550	1550	1650	1800	1800	2000	2300	2400	2700	2800
D ₂ (mm.)	400	400	400	400	400	400	400	400	400	400	400	400
Lges (mm.)	3965	4427	4583	4522	5152	5637	6870	6861	7800	6893	8224	7726
L0 (mm.)	2950	3160	3420	3660	4163	4714	5713	5790	6435	6328	6723	6624
L1 (mm.)	2500	3200	3000	3000	3000	4200	5200	5200	5700	5700	6000	6000
Hges (mm.)	2440	2610	2653	2653	2700	3005	2995	3200	3500	3610	3875	4050
H0 (mm.)	1840	2010	2053	2053	2100	2405	2395	2600	2900	3010	3275	3450
H1 (mm.)	2140	2310	2353	2353	2400	2705	2695	2900	3200	3310	3575	3750
Bges (mm.)	1700	1900	1950	1950	2050	2200	2200	2400	2700	2800	3100	3200
B0 (mm.)	1000	1200	1100	1100	1200	1450	1450	1700	1700	1800	2050	2050

PROCESS FLOW DIAGRAM



DELIVERY WORLDWIDE



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