

CAIRO TECHNICAL CENTER

SUPPLYIN . SERVICES . CONTRACTOR

STEAM BOILER

MORE INFORMATION

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STEAM BOILER Design Standards

- **The steam boiler package system consists of the following parts:**

1. **boiler with its local control and management panel**
2. **heat exchanger**
3. **water pumps**
4. **valves, instruments and pipes.**
5. **The monitoring of the package parameters is guaranteed by local transmitters and instruments.**

- **Steam boiler packages you can rely on**
- **Using a Steam boiler package provided by CTC means that you can attain the required gas temperature downstream of the pressure control valves.**

- **The Steam boiler system works by using a pressurised boiler to produce water which is pumped to the heat exchanger. This process enables the gas to be maintained at the required temperature.**

- **The temperature can be adjusted by simply using the controls for the boiler which produces superheated water.**
- **Talk to us about using CTC Steam boiler packages to heat gases in your processes.**

- **Using the CTC Steam boiler system, you have complete peace of mind regarding safety and efficiency. The monitoring of the system is carried out by local transmitters and instruments, so you have control over its operation.**

- **You can ensure that the temperature of the gas is at the right level in order to ensure optimum performance of your processes. This is an important factor from an economic point of view.**







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STEAM BOILER Design Standards

- Design Standards: Computer Aided Design in compliance with latest
- CE pressure equipment directives and EN
- Large Water and Steam Volume: Ready for peak steam draws - suitable
- for fluctuating steam demands
- Large Heating Surface: Drier steam, higher heat absorption
- Wet-Back Design: Maximum benefit from heating surface.
- Low Counter Pressure: Easier combustion, Less burner power consumption
- Welded Construction: Robust construction, safe operation and easy tube replacement
- Design with Minimum Refractor: Low thermal inertia, reduced service cost and better heat transfer
- Optimum Combustion Chamber Sizes: Well- distributed thermalloading.
- More effective use of Radiation Heat Transfer Surfaces
- Full combustion with low NOX
- High Efficiency: 91% efficiency on LHV, without economizer... Savings on fuel
- Wide Capacity Range: 1 ton/h -25 ton/h steam
- Options:
- Economizer (air or water type), Superheater



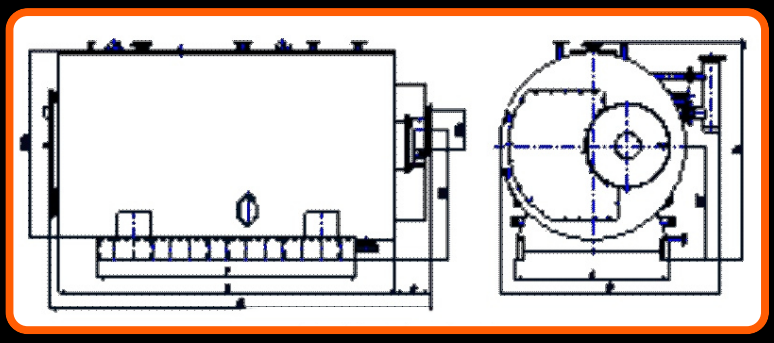


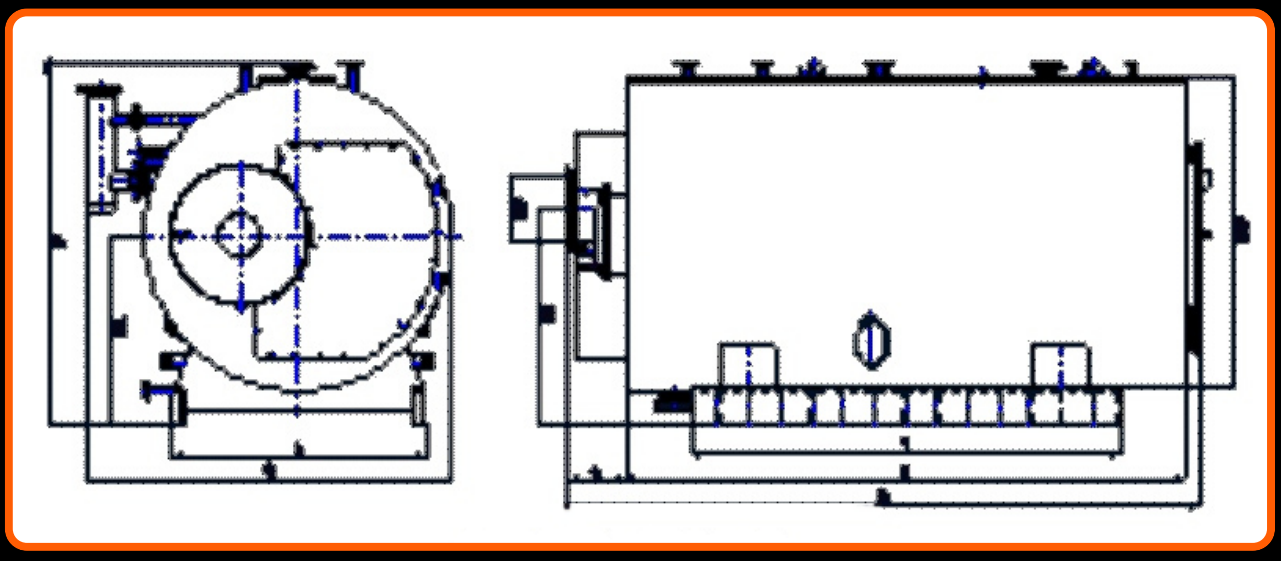


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STEAM BOILER dimensions

CTC Steam Boiler Dimensions																		
TYPE	400	500	600	700	850	1000	1200	1400	1500	1600	1800	T-1800	2000	T-2000	2500	T-2500	3000	T-3000
Capacity	4.000	5.000	6.000	7.000	8.500	10.000	12.000	14.000	14.000	16.000	18.000	18.000	20.000	20.000	25.000	25.000	30.000	30.000
Capacity	2.619	3.273	3.928	4.583	5.565	6.547	7.856	9.165	9.820	10.474	11.784	11.784	13.093	13.093	16.366	16.366	19.640	19.640
Gas	306	382	459	535	650	765	918	1.071	1.147	1.224	1.376	1.376	1.529	1.529	1.912	1.912	2.294	2.294
Consumption	936	1,180	1,290	1,450	1,650	1,800	2,380	2,720	2,950	2,980	3,450	3,450	3,650	3,650	3,880	3,880	4,100	4,100
Water Volume	4.635	5.000	5.072	5.411	5.479	5.833	6.483	6.633	6.874	7.102	7.732	5.575	7.810	5.660	8.602	6.235	8.602	6.235
a QJb	2.400	2.570	2.698	1.798	2.970	3.040	3.247	3.417	3.440	3.500	3.520	4.028	3.600	4.110	3.m	4.378	3.800	4.410
c	1.970	1.970	2.050	2.050	2.360	2.400	2.400	2.500	2.700	2.700	2.860	2.900	3.000	3.000	3.500	3.500	3.500	3.500
d	5.215	5.600	5.710	6.015	6.215	6.570	7.220	7.370	7.610	7.840	8.518	7.980	8.596	8.115	9.388	8.890	9.388	8.890
e	500	500	550	550	650	650	650	650	650	650	700	1.300	700	1.300	700	1.400	700	1.500
f	3.445	3.770	3.840	4.226	4.280	4.690	5.055	5.370	5.650	5.840	6.190	4.215	7.000	4.795	7.342	5.028	7.342	5.028
g	2.690	2.856	2.987	3.088	3.347	3.417	3.624	3.786	3.810	3.868	3.890	4.400	3.970	4.486	4.143	4.810	4.170	4.890
h	2.715	2.890	3.022	3.122	3.371	3.440	3.642	3.794	3.816	3.875	3.900	4.526	4.050	4.698	4.164	3.590	4.164	3.590
h1	2.100	2.154	2.260	2.384	2.551	2.551	2.755	2.870	2.900	2.950	2.950		3.065		3.266		4.190	
h2	965	985	1.040	1.053	1.161	1.171	1.222	1.246	1.313	1.282	1.250	1.700	1.350	1.750	1.382	1.780	1.400	1.800
0k	600	600	700	700	800	800	900	1.000	1.000	1.000	1.100	1.100	1.100	1.200	1.200	1.200	1.300	1.300

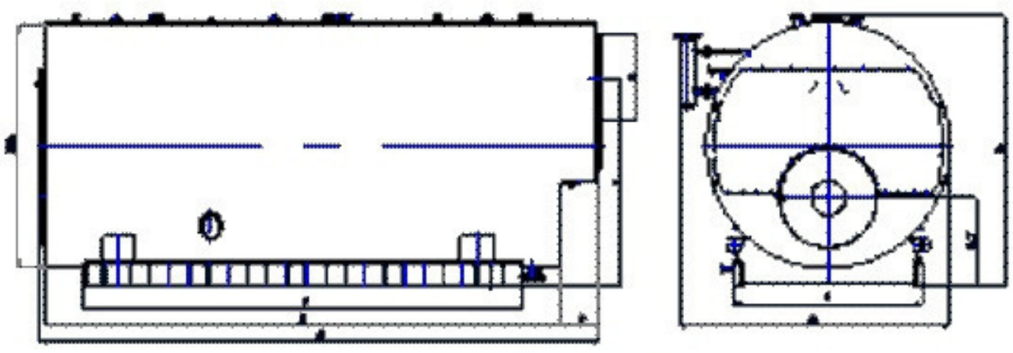




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STEAM BOILER dimensions

Types	CTC	100	125	150	200	250	300
Capacity	kg/h	1000	1.250	1.500	2.000	2.500	3.000
Capacity	kW	655	818	982	1.309	1.637	1.964
Gas Consumption	[Nm3 1h	76	96	115	153	191	229
Water Volume	m3]	175	212	260	313	405	433
a	mm	2.450	2.705	3.060	3.210	3.650	3.650
0b	mm	1.565	1.625	1.682	1.820	1.924	2.015
c	mm	1.500	1.500	1.500	1.500	1.570	1.670
d	mm	2.836	3.110	3.446	3.596	4.034	4.034
e	mm	300	300	300	300	300	300
f	mm	1.870	2.125	2.270	2.370	2.810	2.810
g	mm	1.930	1.990	2.050	2.189	2.293	2.380
h	mm	1.840	1.897	1.992	2.102	2.245	2.352
h1	mm	1.120	1.162	1.248	1.290	1.380	1.400
h2	mm	956	986	1.040	1.090	1.160	1.236
0k	mm	250	300	350	350	400	400



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Contact us

Whether you need custom-built machinery, integrated production lines, stainless steel specialty tanks, pressurized vessels, or boiler installation and repair services, our team has the expertise and experience to deliver exceptional results. Contact us today to learn more about our services and how we can help you achieve your goals.

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