



STEAM BOILERS

- AMD produces steam/hot water boilers with capacities from ¼ ton to 20 ton with operating pressures of up to 20 bar, according to the customer's request.
- We design the boiler with three flame paths. This design provides maximum heat transfer, maximum steam storage, and ease of maintenance.
- The boiler is Wet Back type, which achieves:
 - 1- Long life of the boiler.
 - 2- Complete safety in operation.
 - 3- low fuel consumption.
 - 4- The absence of refractory brick buildings such as the dry back type.



REAL
FOOTAGE



The design is made according to international specifications and ASME Code, and all our designs are approved by Cairo University, the approved authorities and the Standards and Quality Authority, in order to facilitate the boiler licensing process.

- All stages of boiler manufacturing are inspected to ensure their compliance with international specifications and under the supervision of Cairo University on all steps of welding and assembly, including:
 - 1- Chemical and mechanical analysis of raw materials.
 - 2- Crack detection tests using magnetic waves and color solutions.
 - 3- Final test of the product by hydraulic press.
- The entire boiler body and the flame house are made of boiler iron A516-GR70
- All pipes used in Ukrainian boilers

• Boiler control panel

Utilizing latest technologies to control boiler pressure and steam temperature, operate the burner, replace pumps, and blow up the boiler with various alerts for any sudden rise in pressure or increase in the temperature of the flue gases or other important readings. Through a PLC control unit, industrial touch screens, and an easy-to-use and adjustable operating and protection program, according to the customer's desires.



- This is one of the highest safety systems in controlling the boiler and showing malfunctions and alerting them through the appearance of fault written on the panel and is equipped with an alarm siren to alert.
- all components of the European-made panel.
- The company provides a 5-year warranty certificate on



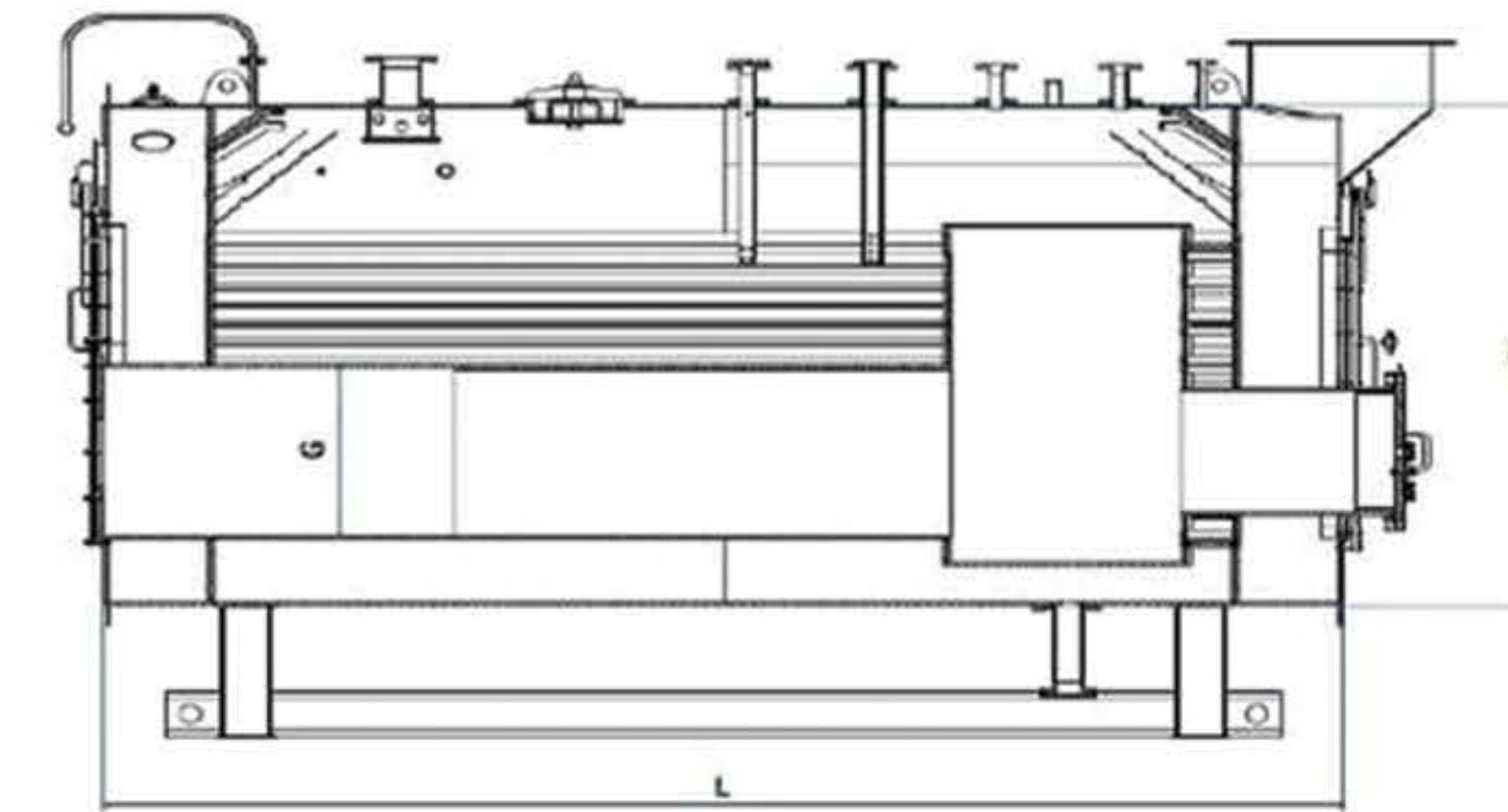
• Boiler accessories

- 1- Italian-made burner or according to the customer's request
- 2- Two (2) Italian water level indicator devices
- 3- Two (2) Italian water feeding pumps
- 4- Two (2) safety valves to open in case of pressure increase
- 5- Two (2) pressure stat to control the maximum pressure of the boiler
- 6- One (1) manual sprayer that is connected to the PLC panel
- 7- One (1) manometer pressure gauge
- 8- Number (1) automatic blow valve that works with air
- 9 - Two (2) Italian-made electrode groups
- 10- One (1) valve to control the ejection of steam
- 11- Number (1) vent valve

• Heat exchangers

We are experts in designing and manufacturing both vertical and horizontal types of tube-shell heat exchangers. This depends on your application and requirements needs.

We design heat exchangers with different capacities and sizes.



Parameter Of AMD Series Fire tube steam boiler wet back (III Pass)

Boiler Model	AMD-BOL-0.5	AMD-BOL-1	AMD-BOL-2	AMD-BOL-3	AMD-BOL-4	AMD-BOL-5	AMD-BOL-6	AMD-BOL-8	AMD-BOL-10
Capacity (t/h).	0.5	1	2	3	4	5	6	8	10
Working Pressure (Mpa).	1	1	1	1	1	1	1	1.25	1.25
Steam Temp. °C.	184	184	184	184	184	184	184	194	194
Heating Surface M2.	19	25	67	91	120	140	182	220	260
Fuel	Light diesel oil, heavy oil, natural gas								
Burners	RIELLO								
APPROX. Boiler weight (ton).	3.5	4.8	7.2	10.6	13.8	14.3	17.2	19.6	27.4
APPROX. Water cappacity (M3).	2.1	2.1	3.9	6.3	8.5	8.8	9	13.3	13.6
Shell Diameter (mm). D	Ø 1524	Ø 1524	Ø 1926	Ø 1926	Ø 2250	Ø 2250	Ø 2500	Ø 2700	Ø 3000
Shell Length (mm). L	2250	2250	3500	4500	4500	5000	5000	7550	8100
Furnace diameter G. (mm).	Ø355.6	Ø 355.6	Ø660.4	Ø 660.4	Ø 812	Ø 812	Ø 870	Ø 965.2	Ø 1117.6

ABOUT US

Advanced Metal Design (AMD) was founded in 2006 as an integrated manufacturing facility that works in heavy sheet metal working, steel structure and heavy machining processes.

We served many of heavy industries for more than one decade like cement, glass, fertilize, ceramic and more by supplying handling equipment, steel buildings, tanks, vessels and storing hoppers. In 2008, AMD started manufacturing rendering equipment's like cookers, dryers, hammer mills, fat presses and started to build full rendering lines in Egypt.

Now we are exporting our machines to all middle east and Africa countries to poultry, sheep, fish slaughter houses or waste collectors to help them get maximum economic and environmental gain.



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