ALARKO

Solid Fuel Fired
Steel Boiler-Domestic

The flue gas is more easily evacuated in the boilers equipped with plate as compared to the classical types. The boelers equiped with plate creates less soot as compared to the boilers with pipe. No frequent cleaning is required. Cleaning is much easier as compared to the pipe types.

Modern Technology: Monoblock semi-cylindiric, steel body and fully welded consturuction durable against high pressure.

Full Quality Control: Post-production 100% hydraulic test at 4 bar pressure.

Appropriate Fuel: Lower calorific value should be minimum 6,000 kcal/kg and maximum 7,000 kcal/kg, with coal dimensions between 25 and 60 mm.

Excellent Isolation: Glass wool isolation of 6 cm thick with aluminium folio outer body.

Aesthetic and Modern: Outer cassette iron sheet painted with electrostatic powder paint.

Ergonomic: Eassy installation, operation and maintenance.Easy acces to all parts.

Safe: 60-90°C thermostat for operation. 100°C limit thermostat with manuel reset for safety.

High Output: TSE and EN standards compliant nominal capacity and output.

Chain Thermostat (12 kW)
Manuel Fanned (23-46 kW)

SOLID FUEL FIRED STEEL BOILER - DOMESTIC

PRINCIPLE FOR OPERATION:

The boiler is filled with coal up to lower entry of the coal filling cover. The coal is ignited with wood parts and other safe flammable materials.

The flame is speeded up with fans in the boilers equiped with manual fan. Boiler thermostat is set to the desired temperature. The boiler set up via the device, thermostat ard fan shall activate and deactivate so as to keep the water temperature at certain intervals.

For the model equipped with chain thermostat, the chain thermostat is set to the desired (60-90°C) temperature after full combustion is reached. The boiler set up via the chain thermostat shall activate and deactivate the damper blade so as to keep the water temperature at certain intervals.

In the event of another coal used other than the recommended one throubles like lower efficiency and cleaning frequency.

INSTALLATION AND OPERATION:

Never mount and operate the heating system boiler living areas. Chimney blocks or excessive wind may cause diffusion of the waste gas and poisoning. Thus the boiler should definitely be mounted in a well ventilated area where no one lives.

Easy Cleaning: The cleaning of the flying soot collected in the boiler as a result of the coil burning can easily be performed without diffusing around.

Full Combustion: Full combustion of fuel is secured with the combustion chember and specially designed heat transfer surfaces and thus the efficiency is maximized.

CONTROL BOARD*

The control board is equipped with the control equipment to secure safe operation of the boiler:

1. Boiler Thermostat: Secures the set-up at the required level between the range 60-90°C. It stops the fan as the required temperature is reached.

2. Limit Thermostat: If the temperature of the boiler exceeds 100°C due to any reason, the combustion air fan automatically stops. his is a manuel reset model.

3. Fan Control Switch: Used for activation and deactivation of the combustion air fan.

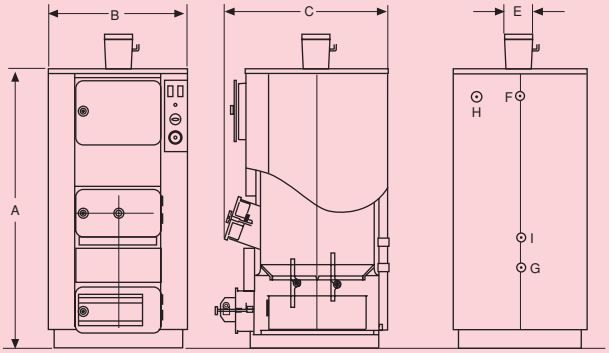
4. Circulation Pump Switch: Used for activation and deactivation of the circulation pump.

5. Thermometer: Indicates the temperature of the water in the boiler.

Chain Thermostat: Can be set to the required value between the range of 60-90°C (for KK 10 MT model).

** Models with chain thermostat are not equipped with control board, they are provided with thermometer.*

TEKNİK ÖZELLİKLER



		Equiped with Chain	Manuel Fan	
		KK10MT/P	KK20MF/P	KK40MF/P
Nominal Capacity	kcal/h	10.000 (12 kW)	20.000 (23 kW)	40.000 (46 kW)
Operational Pressure	bar	3	3	3
Test Pressure	bar	4	4	4
Height - A	mm	1.220	1.480	1.650
Width - B	mm	514	597	748
Depth - C	mm	573	688	862
Flue Gas Diameter - E	mm	130	130	180
Hot Water Inlet/Outlet- F/G		1"	1"	1 1/4"
Safety Inlet/Outlet - H/I		1"	1"	1 1/4"
Weight	kg	160	210	326
Coal Capacity	lt	18	28	56

Attention!...

Closed expansion tanks should not be used with the solid fuel heating system boilers. The boilers connected with a closed expansion tanks are not commissioned by our Authorized Services and are not covered by the guarantee.

MAIN PARTS

Main Boiler Body: Full-cylindiric construction in compliance with the TSE EN 303-5 standard and the Europen EN 10025 standard.

Outer Casette Sheet: Easy installation and disassembly, painted with electrostatic powder paint.

Grill: Special design to secure ideal fuel and air mixture.

Combustion Chamber: Convenient for combustion with high output and easy operation.

Combustion Chamber Cover: It has a fully tight, easily opened and closed conical tightening equipment and special hinge system.

Soot Chamber Cover: Secures removal of the soot after combustion. It is full tight.

Flame Observation Glass: Special ceramic glass for the observation of flame and resistant against heat shocks.

Fan: Quiet and secures the air for combustion by force.

***Moving Fan Clack:** Device with special magnet preventing the air pass over the fan into the combustion chamber.

****Chain Thermostat:** The set boiler water temperature and combustion air is proportionally arranged as to secure the combustion control.

Flue Gas Damper Blade: Secures adjustment of the boiler capacity and flue gas pull.

** For models equipped with manuel fan.*
*** For models equipped with chain thermomtat.*

ALARKO Carrier

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