



## Solid Fuel Fired Steel Boiler

Alarko Konforal Solid Fuel Fired Steel Boilers are of the semi-cylindrical structure with 3 passages, without turbulators. The side parts that serve as ash tray is cooled down with water in order to minimize the heat loss. The combustion air necessary for combustion is secured as forced with fan. The fuel consumption is low, as the efficiency is high.

Adequate draught chimney according to local codes is necessary for that the boiler operates at nominal capacity.

**Modern Technology:** Monoblock semi-cylindric, steel body and fully welded construction.

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

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

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



New Serial 70-407 kW



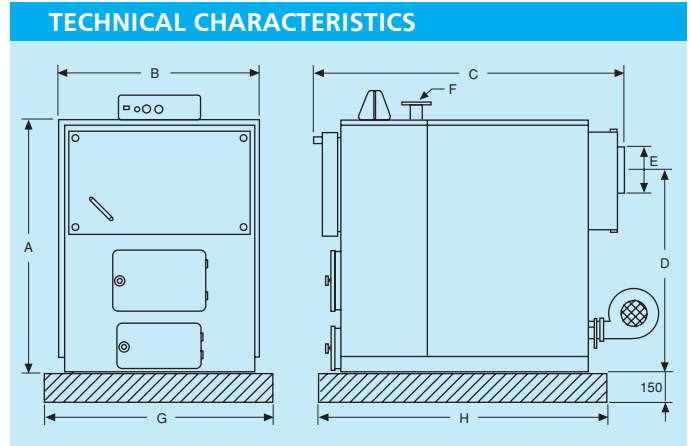
# SOLID FUEL FIRED STEEL BOILER (70-407 kW)

## PRINCIPLE FOR OPERATION:

All the grill surface is covered with coal. The coal is ignited from the top, using wood or other safe flammable material. Fan should be opened in order to speed up the combustion. Boiler thermostat is set to the desired temperature. The boiler set up via the heating system boiler, thermostat and fan shall activate and deactivate so as to keep the water temperature at certain intervals. If coal other than recommended is used, there may be undesired changes in the capacity and output of the boiler and furthermore this may lead to excessive dirt and grill deformation etc.

## INSTALLATION AND OPERATION:

The heating system boiler should not be placed in 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 wall ventilated area where no one lives.



### 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.

TYPE		KK-60	KK-80	KK-100	KK-150	KK-200	KK-250	KK-300	KK-350	KK-500
Capacity	kcal/h	60.000	80.000	100.000	150.000	200.000	250.000	300.000	350.000	500.000
A Height	mm	1.100	1.100	1.300	1.300	1.500	1.500	1.685	1.800	2.000
B Width	mm	850	850	1.050	1.050	1.250	1.250	1.450	1.550	1.730
C Depth	mm	1.350	1.650	1.600	1.800	2.000	2.300	2.400	2.600	2.650
D Flue Gas Height	mm	900	900	1.070	1.070	1.250	1.250	1.360	1.450	1.700
E Flue Gas Diameter	mm	200	200	250	250	250	250	300	350	350
F Flange	mm	2"	2"	65	65	65	65	80	80	100
Pedestal	mm	1.050x1.550	1.050x1.850	1.250x1.800	1.250x2.000	1.450x2.200	1.450x2.500	1.650x2.600	1.750x2.800	1.950x2.850
Weight	kg	700	800	1.100	1.300	1.700	2.000	2.300	2.700	3.650

## CONTROL BOARD



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

- 1. On/Off Switch:** Used for start and stop of the combustion air fan.
- 2. Limit Thermostat:** If the temperature of the boiler exceeds 100°C due to any reason, the combustion air fan automatically stops.
- 3. Boiler Thermostat:** Secures its set-up to desired range between 60-90°C.
- 4. Temperature and Pressure Indicator:** Indicates the temperature of the water in the boiler and the pressure level in the system.

## MAIN PARTS

**Main Boiler Body:** Steel, semi-cylindric welded construction.

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

**Grill:** Special design to secure ideal fuel and air mixture. Manufactured by casting, the melting problem is minimized in case of operation with the recommended fuel.

**Combustion Chamber:** Full combustion due to large volume combustion chamber.

**Boiler Pipes:** Special boiler pipe in compliance with DIN 17177.

**Combustion Chamber Cover:** Secures easy access to the combustion chamber. It has refractor heat isolation and is of leak tight characteristics, easily opened and closed and has conical tightening device and special hinge.

**Ash Chamber Cover:** Secures availability of removing the ash falling under the grill as a result of combustion. It has a fully tight, easily opened and closed conical tightening equipment and special hinge system.

**Flame Observation Glass:** Provides availability of observation of glass.

**Fan:** Secures the air required for combustion by force. It is quiet.

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

The right to amend specifications under technologic developments is reserved

**ALARKO**



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