



# Solid Fuel Steel Boiler



**60.000 -700.000 kcal/hr.**  
**High Efficiency Hot Water Boilers**  
**70-814 kw**



# ALARKO CK Solid Fuel Steel Boiler

Alarko Solid Fuel Heater Boilers have no turbulator, full three pass half cylindrical structure. The burning air necessary for burning is supplied by forcing with fan.

**HIGH EFFICIENCY**  
LOW FUEL CONSUMPTION



## MODERN TECHNOLOGY

Monoblock half cylindrical steel body and full welded construction.

## PERFECT INSULATION

Outer body insulated by 10 cm glass wool with aluminium foil.

## AESTHETIC and MODERN

Outer protection sheets painted with electrostatic.

## ERGONOMICAL

Easy to assemble, use and maintain. Easy access to all parts.

## HIGH EFFICIENCY

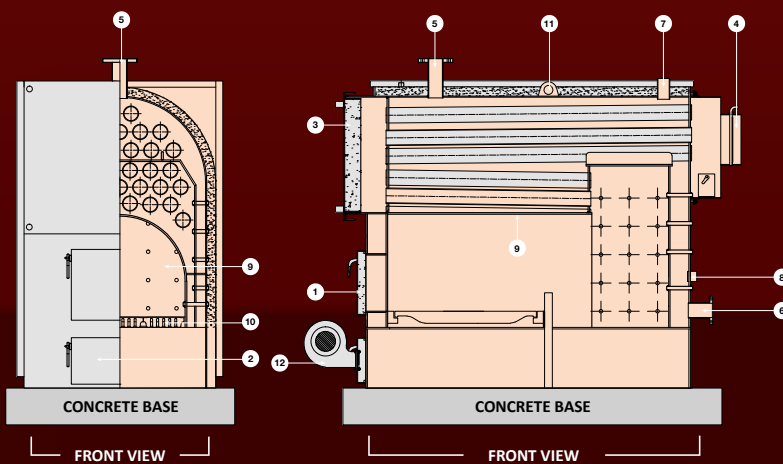
Nominal capacity and efficiency in conforming to TSE and EN.

# Quality and Safety Together in Steel Boiler.

AFTER PRODUCTION  
EACH BOILER  
**100%**  
HYDRAULIC TEST



## MAIN PARTS



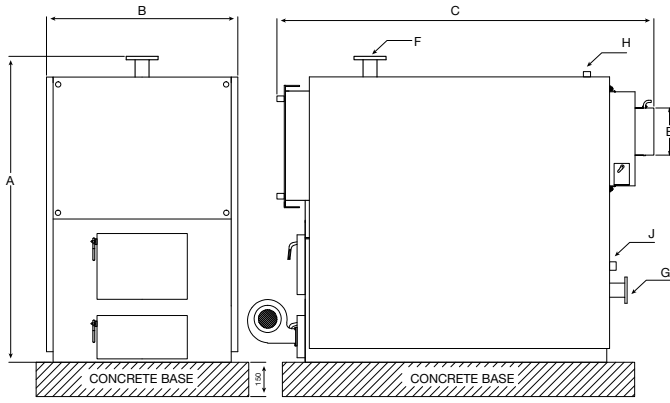
- |                                   |                                        |
|-----------------------------------|----------------------------------------|
| ① Coal door                       | ⑦ Exit safety pipe connection nozzle   |
| ② Ash door                        | ⑧ Return safety pipe connection nozzle |
| ③ Front smoke box doors           | ⑨ Cylindrical furnace                  |
| ④ Boiler funnel connection        | ⑩ Boiler grills                        |
| ⑤ Boiler exit connection nozzle   | ⑪ Carrying hook                        |
| ⑥ Boiler return connection nozzle | ⑫ Fan                                  |

## WORKING PRINCIPLE

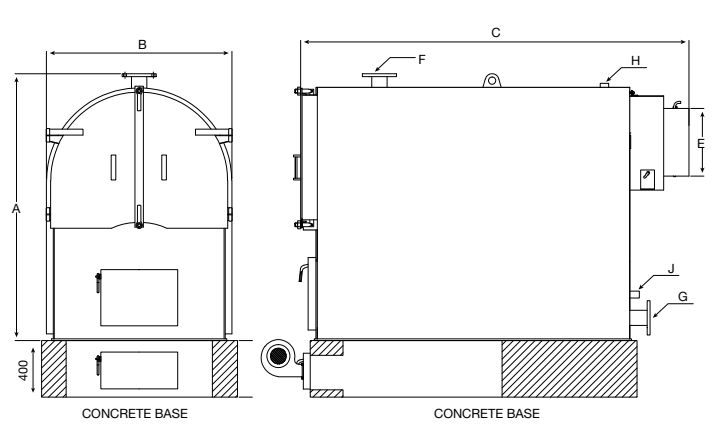
First, circulation pump is opened. The desired temperature is set on boiler thermostat. This value must be 55°C minimum. Ignition is made on the front side of the boiler. The coals that turn into cinders on the front are pushed to the sides of the boiler along the grill. The opening that is created on the front are loaded with new coal. New coal is not placed on coals that are still burning and turned to cinder. New coal is placed next to the cinder by cushioning. This way, the flames coming from the front to the back will ignite new coal. Then, fan is turned on by the switch. Detailed information is provided in the user manual.

**Note: Enclosed expansion tank must not be used in the installation; open expansion tank must be used.**

## CK 60 - CK 480



## CK 510 - CK 700



	CK 60	CK 90	CK 120	CK 150	CK 180	CK 210	CK 240	CK 270	CK 300	CK 330	CK 360	CK 390	CK 420	CK 450	CK 480	CK 510	CK 540	CK 600	CK 700	
<b>PERFORMANCE</b>																				
Rated thermal power	kcal/hr	60.000	90.000	120.000	150.000	180.000	210.000	240.000	270.000	300.000	330.000	360.000	390.000	420.000	450.000	480.000	510.000	540.000	600.000	700.000
	kW	70	105	139	174	209	244	279	314	349	384	419	453	488	523	558	593	628	698	814
Recommended flow rate	m <sup>3</sup> /hr	3	5	6	8	9	11	12	14	15	17	18	20	21	23	24	24	27	30	34
Operating pressure maximum*	bar	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<b>FUNNEL</b>																				
Funnel diameter (E)	mm	200	200	250	250	300	300	300	350	350	400	400	400	400	450	450	450	500	500	550
Funnel gas temperature - max	°C	180	180	180	180	180	180	180	180	180	180	180	180	170	170	170	170	170	170	170
Horizontal funnel length - max	cm	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
<b>ELECTRICITY</b>																				
Electricity	V/Hz	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
Power Consumption	W	125	130	140	230	230	370	370	370	550	550	550	750	750	750	1100	1100	1100	1100	1100
Protection Class		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
<b>WATER CONNECTIONS</b>																				
Heating water exit-return (G, F)	DN	50	65	65	65	65	65	80	80	80	80	80	80	100	100	100	100	100	125	125
Safety Exit (H)	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"
Safety Return (J)	inch	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
<b>DIMENSIONS</b>																				
Width (B)	cm	78	78	85	85	95	95	95	100	103	103	111	116	119	121	121	121	121	127	130
Depth (C)	cm	145	175	180	180	200	200	218	232	232	242	242	255	258	262	270	290	290	305	315
Height (A)	cm	131	131	148	164	170	175	175	180	185	185	200	204	209	209	211	211	214	217	217
Water volume	lt	255	325	435	655	765	820	950	1030	1195	1275	1375	1430	1765	1895	1925	2040	2140	2230	2390
Recommended expansion tank volume	lt	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	3000	3500
Weight Without Water	kg	680	750	950	1100	1280	1410	1710	1845	2045	2180	2330	2450	2650	2750	2870	2950	3180	3350	3590
Coal Capacity	kg	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	400	460

\* Production can be made for up to 6 bars on demand.

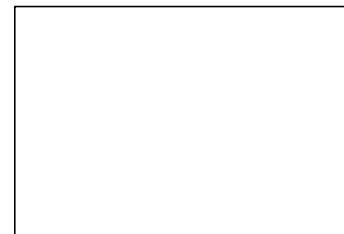
The right to amend specifications under technologic developments is reserved

**ALARKO**



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