

Eko Coal

Leading the Way to Clean, Efficient Heating

The EKO Coal boiler is built to efficiently burn coal, although not a true "gasifier" it still provides an excellent combustion performance. The quality of the products the EKO Coal boiler is manufactured from make it very resistant to corrosive agents. The combustion chamber is designed to provide space for a maximum fuel load.

There are four size options when choosing an EKO Coal boiler; the power output varies from 72K to 120K BTUs.

A very useful feature of the EKO Coal Boiler is that it can be run in a gravity based system; they can be used in applications where there is no electricity available.

Main Characteristics:

- High combustion performance
- Excellent resistance to corrosive agents
- Optimally designed combustion chamber for maximum fuel

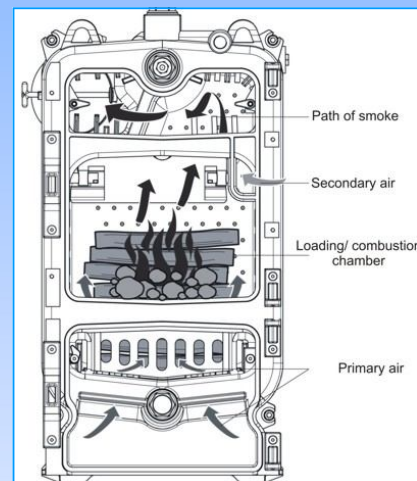
Principle of Operation:

Three burning stages:

Stage1 The combustion by-products are carried by a special passage in the rear element. In this area, very hot secondary air is inserted which allows for complete oxidation of the gases.

Stage2 The gases from the rear element are sent to a wide-finned, self-cleaning zone, allowing entry into the third section.

Stage3 The third section directs the smoke towards the flue with an adjustment shutter and a door for cleaning.



Technical Specifications

Description	Unit of Measure	Eko Coal 21	Eko Coal 26	Eko Coal 31	Eko Coal 36
Fuel		Coal			
Negative pressure at flue (Min / Max)	mbar	0.1/0.3			
Maximum acceptable temperature	oC	95			
Operating temperature (range)	oC	40÷90			
Minimum permissible return temperature	oC	50			
"PMS" maximum operating pressure	bar	4			
Duration of one load	h	>2			
Diameter of flue fitting	mm	180			
Unit class*	no.	1			
Water side pressure drop (D t= 150C)	mbar	12	15	18	20
Water side pressure drop (D t= 200C)	mbar	10	12	14	17
Water capacity in a boiler	l	35	41	47	53

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