

KUMULATOR EKO SPECIFICATIONS SHEET

KUMULATOR EKO



Kumulator Eko is the lower combustion system boiler. This system provides slower and more precisely an economical burning. Exhaust gas boiler circulate by three hot gas flues, which can significantly extend their path and thus to increase heat transfer efficiency.



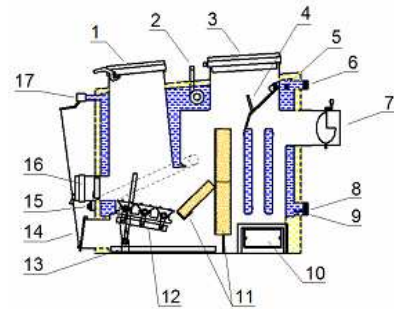
For Kumulator Eko boilers is recommended chunk of wood. Humidity max. 15-20% , diameter 10-20 cm. Wood should be from deciduous trees like: Oak, Bebech, Acacia, Hornbeam, Ash. or softer wood like birch or poplar. As substitute can be use wood from coniferous trees.

TECHNICAL DATA

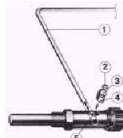
Model		Eko 25	Eko 40
Power range	Wood	25,8	43
Efficiency	%	83	83
Water capacity	dm ³	90	105
Max working pressure	bar	2	
Min outlet temperature	°C	65	
min. inlet temperature	°C	55	
max. Outlet temperature	°C	90	
Fluegases temperature at nominal power	°C	180-250	
Class PN-EN – 303-5		3	
Water-side resistance; Δt=10K	mbar	3,5-4,0	
Water-side resistance; Δt=20K		1,4-2,0	
Chimney pressure	Pa	20	20-25
Recommended chimney height	m	8	8
Recommended chimney section	cm ²	400	400
Max. Wood length	cm	35	50
Loading chamber capacity	dm ³	101	134
Fuel consumption	Nominal power and calorific value>14MJ/kg	kg/h	7,9
Approximate working time at one load		h	2-4
Loading hole dimensions	mm	400x290	530x290
Approximate heating area	m ²	150-260	350-450

BOILER CONSTRUCTION

1. Loading doors
2. Cooling coil connectors (optional)
3. Cleaning hole
4. Easy fire up clap
5. Thermal valve for cooling coil connector.
6. Power Connector
7. Flue outlet
8. Connector return
9. Blowdown connection
10. Clearing hole
11. Chamotte
12. Grate
13. Ash drawer
14. Ash pan flap
15. Secondary air throttle
16. Doors with burner port
17. Mechanical control hearth



CONTROLLING



The temperature is controlled by means of mechanical control hearth, which depending on the temperature that opens and closes the air supply under the grate.

OPTIONS



Kumulator Eko boilers are equipped with a hole for mounting the Pellets burner, that can be purchased and installed at any time to automate the process of burning

EMISSION

Model	Unit	EKO 25	EKO 40
CO Emission (O ₂ =10%)/(O ₂ =13%)	mg/m ³	2033/1479	4554/3312
OGC Emission(O ₂ =10%)/(O ₂ =13%)	mg/m ³	103/75	115/84
Dust Emission (O ₂ =10%)/(O ₂ =13%)	mg/m ³	110/80	121/88

BOILERS DIMENSIONS

model	EKO 25	EKO40
A	1080	1080
B	720	850
C	1410	1410
D	670	670
E	240	240
F	220	220
G	220	220
a	1 ½"	1 ½"
b	1 ½"	1 ½"
c	½"	½"
d	180	180
e	½"	½"
f	½"	½"

EXAMPLE INSTALATION DIAGRAM

