LOGICA17-38 SPECIFICATIONS SHEET

Logica

LOGICA boilers are devices with low-upper combustion and four vertical convection channels.
Thanks to the air flow „Common Air" it is possible burn different fuel fractions and emissions to air is relatively low.

FUEL

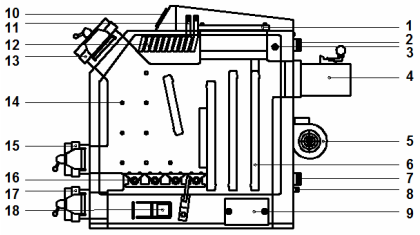
Recommended fuel:
Coal humidity up to 12%, and fine vicariously, and firewood humidity up to of 20%.

TECHNICAL DATA

Model			Logica 17-20	Logica 20-27	Logica 30-38
Power range	Coal OI		20,8	27	38
Efficiency		%	78-80		
Water capacity		dm^3	80	95	110
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	180-240		
Class PN-EN – 303-5			3		
Water-side resistance; Δt=10K		mbar	2,0-20		
Water-side resistance; Δt=20K			0,5-5		
Chimney pressure		Pa	15-20	15-20	20-25
Recommended chimney height		m	8	8	8
Recommended chimney section		cm^2	400	400	400
Dimensions of the loading chamber		mm	210x290	210x340	210x390
Loading chamber capacity		dm^3	50	60	120
Fuel consumption	At nominal Power and coal OI kl.25/12Q=25,3 MJ/kg	kg/h	3,9	5,1	7,3
Approximate working time at one load		h	12,5	12,5	15,5
Power consumption		W	90	90	160
Heating surface		m2	150-230	200-270	300-380

BOILER CONSTRUCTION

1. Upper cleaning hole
2. Power connector
3. Sensor cooling coil
4. Flue outlet
5. Air fan
6. Vertical water baffle
7. Connector return
8. Blowdow connection
9. Lower cleaning hole
10. Controller
11. Connections cooling coil
12. Cooling coil (option)
13. Loading door
14. Air nozzles ,,Common Air''
15. Combustion chambers door
16. Cast iron grate rotary
17. Ash door
18. Air flow regulation



AUTOMATION

Controllers support the standard - typical installations, domestic hot water pomp, central heating pomp or mixing pump also cooperate with room thermostats.

OPTIONS

Optionally models 17-20 and 20-27 can be equipped on pellet burner

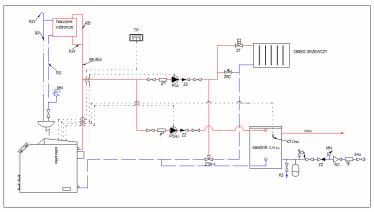
ADVANTAGES OF THE BOILER

- Large capacity loading chamber
- System the airflow "common air"
- Expandability automation
- The simple installation
- Movable iron grate

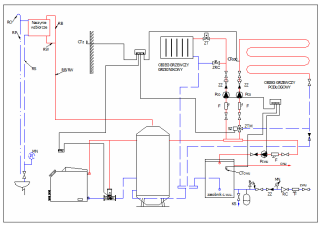
EMISSION

Model	Unit	Logica 17-20	Logica 20-27	Logica 30-38
CO Emission (O2=10%)/(O2=13%)	mg/m3	1352/983	2075/767	3480/2530
OGC Emission(O2=10%)/(O2=13%)	mg/m3	133/97	139/102	142/103
Dust Emision (O2=10%)/(O2=13%)	mg/m3	117/85	128/94	126/92

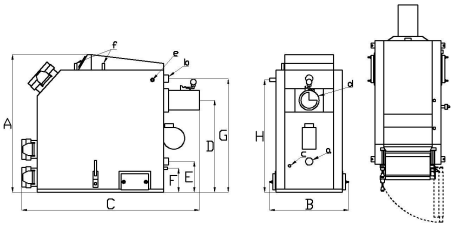
Installation diagram: domestic hot water and central heating with thermostatic valve



Installation diagram of the installation with a storage tank



DIMENSIONS BOILER



Logica	17-20	20-27	30-38
A	1115	1115	1310
B	610	660	720
C	1490	1490	1670
D	760	760	950
E	255	255	255
F	220	220	215
G	930	930	1120
H	920	920	1120
a	1 ½"	2"	2"
b	1 ½"	2"	2"
c	½"	½"	½"
d	160	160	195
e	Gw ½"	Gw ½"	Gw ½"
f	Gz ½"	Gz ½"	Gz ½"