

## LOGICA 40-250 kW SPECIFICATIONS SHEET



### Logica

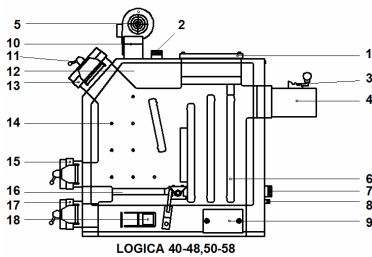
LOGICA boilers are devices with low-upper combustion and four vertical convection channels. Thanks to the air flow „Common Air” it is possible burn different fuel fractions and emissions to air is relatively low.

#### FUEL

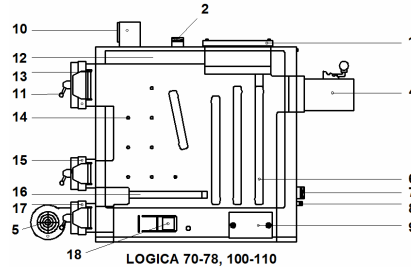
##### Recommended fuel:

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

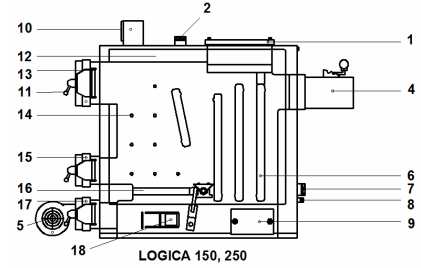
#### BOILER CONSTRUCTION



LOGICA 40-48,50-58



LOGICA 70-78, 100-110



LOGICA 150, 250

- |                          |  |
|--------------------------|--|
| 1. Upper cleaning hole   | 11. Clamp (close the door)   |
| 2. Outlet connector      | 12. Water coat   |
| 3. Flue gas damper       | 13. Loading door   |
| 4. Flue outlet           | 14. Air nozzles „Common Air”   |
| 5. Air fan               | 15. Combustion chambers door   |
| 6. Vertical water baffle | 16. Water (log 40-48,50-58,150 grate finished iron rotary element; log 70-78,100-110- cast iron grate) |
| 7. Connector return      | 17. Ash door   |
| 8. Blowdown connection   | 18. Air flow regulation  |
| 9. Lower cleaning hole   |  |
| 10. Controller           |  |

#### ADVANTAGES THE BOILER

- Large capacity loading chamber
- System the airflow "common air"
- Easy to use
- Expandable automation

#### AUTOMATION



Controllers support the standard - typical installations, domestic hot water pump, central heating pump and mixer pump. also cooperate with room.

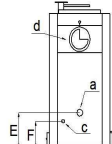
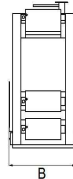
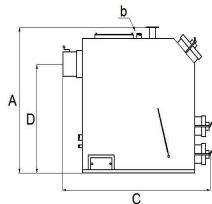


#### TECHNICAL DATA

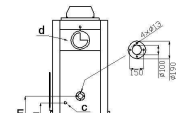
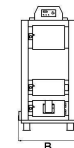
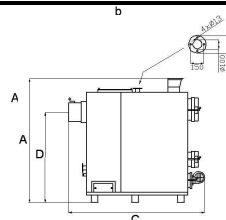
| Model                             |           |                 | 40-48     | 50-58     | 70-78     | 100-110   | 150     | 200-250 |
|-----------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|---------|---------|
| Power range                       | Coal MI   | kW              | 40        | 50        | 70        | 100       | 130     | 200     |
|                                   | Coal/wood |                 | 48        | 58        | 78        | 110       | 150     | 250     |
| Fuel                              |           |                 | coal      |           |           |           |         |         |
| Efficiency                        |           | %               | 76-79     |           |           |           |         |         |
| Water capacity                    |           | dm <sup>3</sup> | 125       | 140       | 180       | 250       | 340     | 480     |
| Max working pressure              |           | bar             | 2         |           |           |           |         |         |
| Min outlet temperature            |           | °C              | 40        |           |           |           |         |         |
| Min. Outlet temperature           |           | °C              | 85        |           |           |           |         |         |
| Fluegases temperature at          |           | °C              | 220-280   |           |           |           |         |         |
| Class PN-EN – 303-5               |           |                 | 3         |           |           |           |         |         |
| Water-side resistance; Δt=10K     |           | mba             | 2÷20      |           |           |           |         |         |
| Water-side resistance; Δt=20K     |           | r               | 0,5÷5     |           |           |           |         |         |
| Chimney pressure                  |           | Pa              | 30-35     |           |           |           |         |         |
| Recommended chimney height        |           | m               | 8-10      | 8-10      | 12        | 14        | 14      | 14      |
| Recommended chimney               |           | cm <sup>2</sup> | 600       | 600       | 600       | 800       | 800     | 1000    |
| Dimensions of the loading chamber |           | dm <sup>3</sup> | 180       | 200       | 290       | 380       | Ok. 450 | 490     |
| Fuel consumptio                   | Coal      | kg/h            | 9,58      | 11,87     | 16,43     | 22,82     | 30,6    | 49,2    |
|                                   | Wood      | kg/h            | 15,456    | 18,676    | 25,116    | 35,42     | 47,6    | 80,6    |
| Approximate time working          | On coal   | h               | 19        | 17        | 18        | 17        | 14      | 8-10    |
|                                   | On wood   | h               | 7,5       | 7         | 7,5       | 7         | 6       | 6       |
| Power consumption                 |           | kW              | 0,16-0,18 | 0,16-0,18 | 0,16-0,18 | 0,16-0,18 | 0,26    | 0,26    |

**LOGICA 40-350 SPECIFICATIONS SHEET**

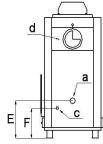
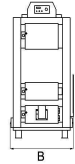
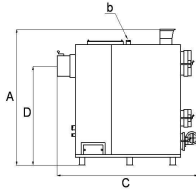
**DIMENSIONS OF BOILER**



**Logica 40-48, 50-58 kW**



**Logica 70-78, 100-110 kW**



**Logica 150kW**

**Logica 200-250 kW**

| Logica                             | 17-20   | 20-27   | 30-38   | 40-48   | 50-58   | 70-78   | 100-110 | 150     | 200-250 |
|------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>A</b>                           | 1115    | 1115    | 1310    | 1350    | 1430    | 1620    | 1620    | 1740    | 1830    |
| <b>B</b>                           | 610     | 660     | 720     | 760     | 810     | 840     | 940     | 1120    | 1250    |
| <b>C</b>                           | 1490    | 1490    | 1670    | 1580    | 1640    | 1980    | 1980    | 2140    | 2200    |
| <b>D</b>                           | 760     | 760     | 950     | 1035    | 1115    | 1270    | 1270    | 1370    | 1460    |
| <b>E</b>                           | 255     | 255     | 255     | 270     | 270     | 400     | 400     | 400     | 430     |
| <b>F</b>                           | 220     | 220     | 220     | 230     | 230     | 360     | 360     | 360     | 380     |
| <b>G</b>                           | 930     | 930     | 1120    | -       | -       | -       | -       | -       | -       |
| <b>H</b>                           | 920     | 920     | 1120    | -       | -       | -       | -       | -       | -       |
| <b>a</b>                           | 1 ½"    | 2"      | 2"      | 2"      | 2"      | 2"      | 2"      | 2"      | rys.    |
| <b>b</b>                           | 1 ½"    | 2"      | 2"      | 2"      | 2"      | 2"      | 2"      | 2"      | rys.    |
| <b>c</b>                           | ½"      | ½"      | ½"      | ½"      | ½"      | ½"      | ½"      | ½"      | 3/4"    |
| <b>d</b>                           | 160     | 160     | 195     | 235     | 235     | 285     | 285     | 285     | 298     |
| <b>e</b>                           | Gw ½"   | Gw ½"   | Gw ½"   | -       | -       | -       | -       | -       | -       |
| <b>f</b>                           | Gz ½"   | Gz ½"   | Gz ½"   | -       | -       | -       | -       | -       | -       |
| <b>The loading door dimensions</b> | 210x290 | 210x340 | 210x390 | 210x440 | 210x490 | 300x400 | 300x500 | 300x600 | 300x600 |

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

**Installation diagram: of the installation with a buffer tank**

