

hecal

Primus



Mechanical Thermostat
Solid Fuel Boiler

PRIMUS

Hecal Primus boilers are designed for central heating of small residential or commercial buildings where water-heating systems are installed.

The Primus boilers are operated with mechanical thermostat, which enables to adjust both primary and secondary air inlets automatically by the help of thermostatic valve.

Unique design and the high quality construction provide functionality and optimal efficiency, brings high customer satisfaction and a long boiler lifetime.



- Economic solution for domestic heating
- Available for firing wood logs and briquettes
- Capacities 25 to 60 kW
- Primary and secondary air inlets are controlled with mechanical thermostat
- Large loading door and combustion chamber
- Optimal design for easy cleaning
- Cast iron bottom grate
- Operation without electricity
- Optional overheating safety exchanger
- Produced and certified according to CE norms

Wood

Primus boilers are fired with wood logs and briquettes.

We recommend firing dry wood (15 % moisture content).

The wood log dimension is other case that determines the output of boiler beside humidity.

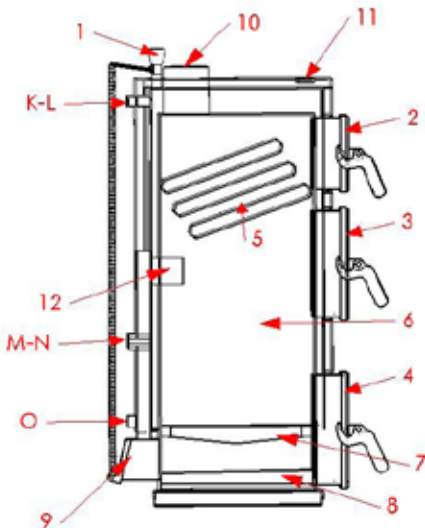
The wood logs should be with following lengths:

| Model | Primus 25 | Primus 35 | Primus 45 | Primus 60 |
|-------------------------------|-----------|-----------|-----------|-----------|
| Maximum Wood Log Lengths (mm) | 400 | 400 | 450 | 500 |
| Loading Chamber Capacity (lt) | 68 | 76 | 86 | 103 |

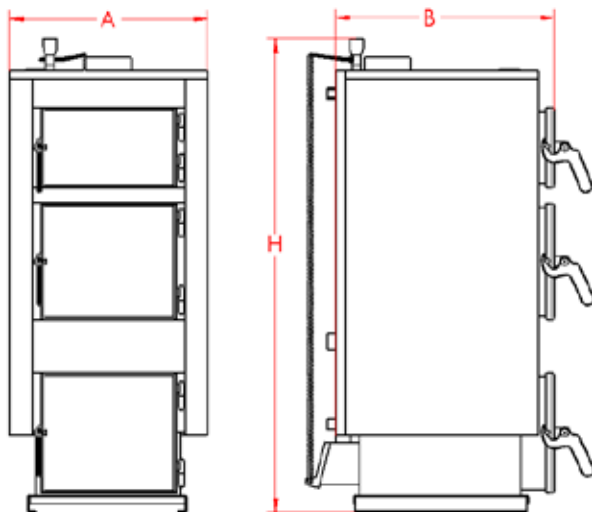
The wood logs must be loaded according to above-mentioned lengths as too long logs don't fall down regular and cause bridges. Too short and small logs are easily inflammable they have tendency to increase and decrease the boiler heat output.

Boiler Parts

1. Mechanical Thermostat
 2. Cleaning Door
 3. Loading Door
 4. Ash Remove Door
 5. Heat Exchangers
 6. Combustion Chamber
 7. Cast Iron Bottom Grate
 8. Ash Drawer
 9. Primary Air Inlet
 10. Chimney Connection
 11. Thermometer
 12. Secondary Air Inlet
- K – System Water Flow
L – Safety Flow
M – System Water Return
N – Safety Return
O – Boiler Inlet and Outlet



Boiler Dimensions and Technical Features:



| Dimensions and Technical Specifications | Primus F25 | Primus F35 | Primus F45 | Primus F60 |
|---|------------|------------|------------|------------|
| Heat Output (kW) | 25 | 35 | 45 | 60 |
| A - Width (mm) | 560 | 560 | 560 | 560 |
| B - Depth (mm) | 500 | 560 | 620 | 670 |
| H - Height (mm) | 1250 | 1250 | 1340 | 1370 |
| Weight (kg) | 210 | 240 | 290 | 345 |
| Chimney Diameter (mm) | 160 | 160 | 160 | 160 |
| System Flow and Return | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Safety Flow and Return (It) | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" |
| Water Loading and Discharging (mm) | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Water Volume (lt) | 66 | 72 | 80 | 96 |
| Maximum Working Pressure (bar) | 3 | 3 | 3 | 3 |
| Maximum Operating Water Temperature (°C) | 95 | 95 | 95 | 95 |
| Test Pressure (bar) | 5 | 5 | 5 | 5 |
| Loading Chamber Capacity (lt) | 68 | 76 | 86 | 103 |
| Loading Door Dimensions (width/height) (mm) | 355x300 | 355x300 | 355x300 | 355x300 |
| Maximum Wood Log Lengths (mm) | 400 | 400 | 450 | 500 |
| Efficiency (%) | 75-80 | 75-80 | 75-80 | 75-80 |



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