

**hecal**

**Primus F**



Fan Assisted  
Solid Fuel Boiler

# PRIMUS F

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 by fan with controller, 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 operated with fan and controller
- Solution for inadequate chimney conditions
- Easy to set and control boiler temperature
- Large loading door and combustion chamber
- Optimal design for easy cleaning
- Cast iron bottom grate
- 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 (without)

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 (Fan)

10. Chimney Connection

11. Thermometer (Controller)

12. Secondary Air Inlet

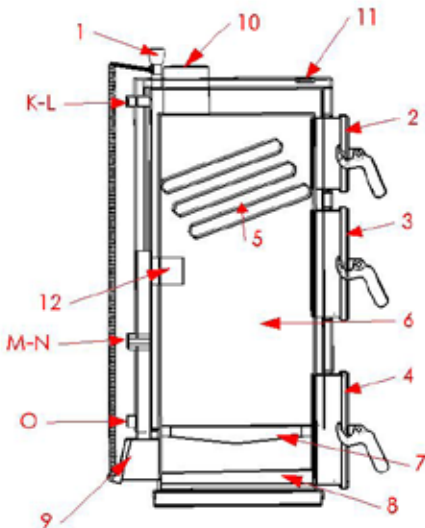
K – System Water Flow

L – Safety Flow

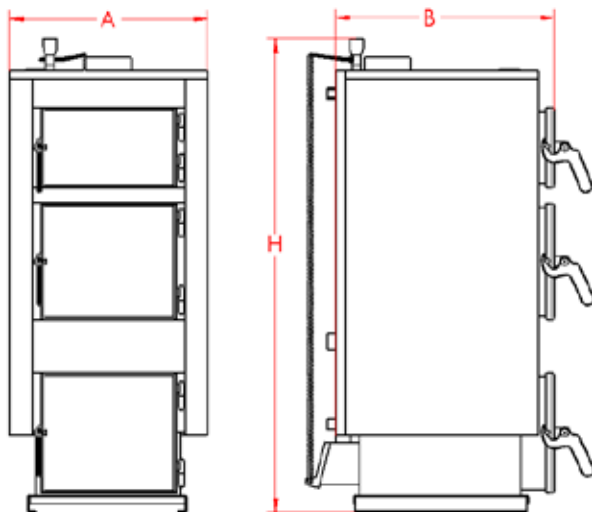
M – System Water Return

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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