

THERMOTECHNOLOGY

TRADITION · INNOVATION · QUALITY



AUTOMATIC **PELLET** HEATING SYSTEM





AUTOMATIC PELLET HEATING SYSTEM

The greenest energy available: economic and environmental friendly

- Heating efficiency independent from pellet quality
- Able to burn wood and agricultural waste as well as pellets in 6 mm size (F6) and 8 mm size (F8)
- Boiler casing made from 5-mm thick steel plate
- 40 mm external thermal isolation, 3-layer door isolation
- Heat resistant steel grid of high strength and durability (installation into an open flue heating system recommended)
- 2 bar maximum operating pressure
- Dual-microprocessor-based automatic control
- Automatic ash- and sludge conveyor
- Automatic ventilator speed adjustment
- LCD display



**Pellet system units:
boiler – burner – tank**

PELLET BOILER

Heat transfer surface of the pellet boiler is multiple bigger compared to traditional wood boilers. Temperature of exiting smoke is constantly fluctuating under 120°C, that's why pellet boiler can be linear operated.

BURNER, CONTROL SYSTEM, TANK



Pellet burner work similarly to traditional gas burners, apart from the used fuel, which is liquid wood, pellet. Operation of pellet burner happens completely individually. Most important sensor of the control system is the thermometer, which perceives heat through an immersion sleeve and regulates the flame accordingly. Approximates the hot water temperature in the boiler the value set by the user, the control system automatically reduces the dose of pellets gradually, thus preventing an overheating of the device.

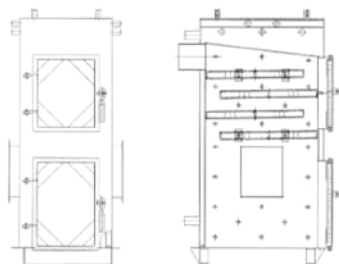
Pellet tank has to be refilled only once or twice a month instead of an hourly or daily filling. The tank can be constructed individually or in a standard size of 1m³, recommended by FÉG. In case of standard size the fuel is sufficient for 2-4 weeks.



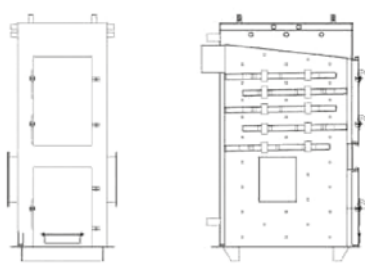
BOILER TYPES	FPH 35	FPH 50	FPH 100
Capacity (kw)	5–35	35–50	50–100
Efficiency (%)	92	92	92
Weight (kg)	325	500	850
Flue pipe diameter (mm)	140	180	220
BLAST PRESSURE (mbar)			
Pellet	0,15	0,15	0,15
Log	0,2	0,3	0,5
KEY FIGURES			
Height (mm)	1200	1625	2000
Width (mm)	450	660	860
Length (mm)	650	1014	1500
Operating pressure (bar)	2	2	2
Heat intake (m ²)	4,75	7,34	18,1
Spacer (pcs)	96	135	232

BURNER TYPES	FPH 5-50	FPH 50-100
Capacity (kw)	5-50	50-100
Weight (kg)	32	38
KEY FIGURES		
Height (mm)	750	800
Width (mm)	550	600
Length (mm)	520	550
Energy source	230 V / 8 A	230 V / 8 A

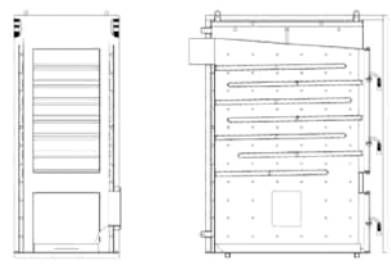
FPH35



FPH50



FPH100



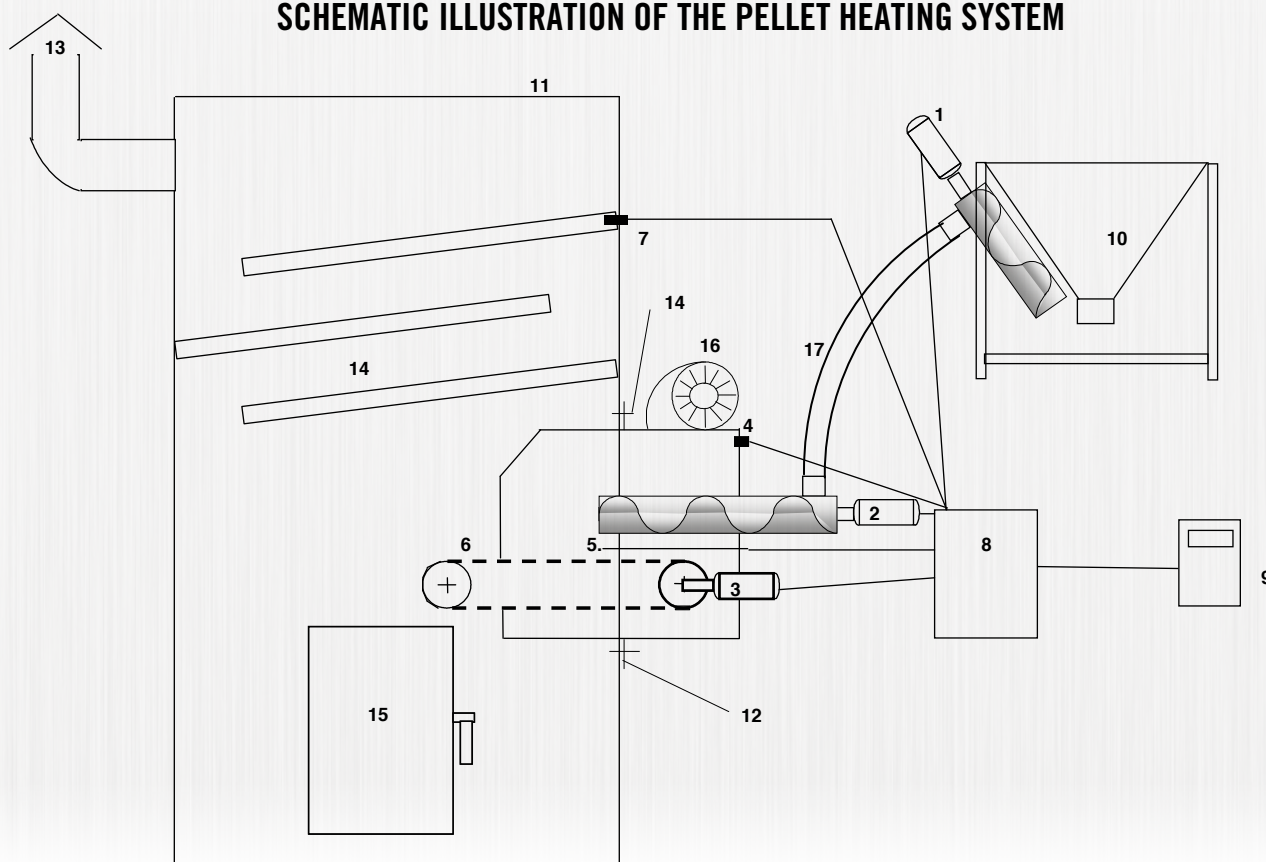


PELLET HEATING SYSTEM

Wood pellet heating system offers the lowest energy costs among all heating appliances. Switching from natural gas to wood pellets can lead to a 25% reduction of annual home heating costs. This translates into faster payback for the customer choosing wood pellet heating as an alternative fuel source. The revolutionary new burner is suitable for heating with any type of biomass pellet (wood waste, switchgrass, corn cobs, etc.).

Wood pellets are clean-burning and carbon neutral. Compared to traditional coal- and wood-fired boilers pellet devices have a low level of CO emission ($\text{CO} < 200 \text{ mg/m}^3$).

SCHEMATIC ILLUSTRATION OF THE PELLET HEATING SYSTEM



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|----------------------------|--|----------------------------|
| 1. Gearmotor and worm gear | 7. Temperature sensor | 13. Boiler flue |
| 2. Gearmotor and worm gear | 8. Microprocessor-based control system | 14. Pouched heat exchanger |
| 3. Gearmotor | 9. Microprocessor-based LCD keypad | 15. Boiler door |
| 4. Flame sensor | 10. Reservoir tank | 16. Ventilator |
| 5. Heater | 11. Boiler | 17. Feed pipe |
| 6. Sludge conveyor | 12. Burner plate | |

Some units of the pellet heating system (boiler, burner, tank) are available separately as well.

YOUR DEALER: