



Combined log-biofuel boiler

French Boiler
Manufacturer
since 1971



GTEI

Natural draught log burning boiler with oil boiler on top.
Output of 20 or 30 kW wood, 24 kW fuel
Heating only or Heating and domestic hot water (DHW) with an independent tank.
Can be installed without buffer tank.

Freedom, simplicity and economy

Installing a PERGE GTEI boiler is the choice of freedom, simplicity and economy.

First, it doesn't require a buffer tank and only requires a small floor space.

The PERGE MC Classic log burning boiler from GTEI doesn't need electricity. Boiler temperature control and overheating safety are ensured by thermostatic elements that operate under all circumstances. The anti-boiling exchanger is factory-fitted.

Circulation to the oil boiler is by thermosiphon.

Finally, the Optitherm 24 C-F30 special GTEI oil boiler, placed on the log burning boiler, can be fitted when installing a GTEI boiler for the first time, or later to any PERGE MC Classic boiler already installed.

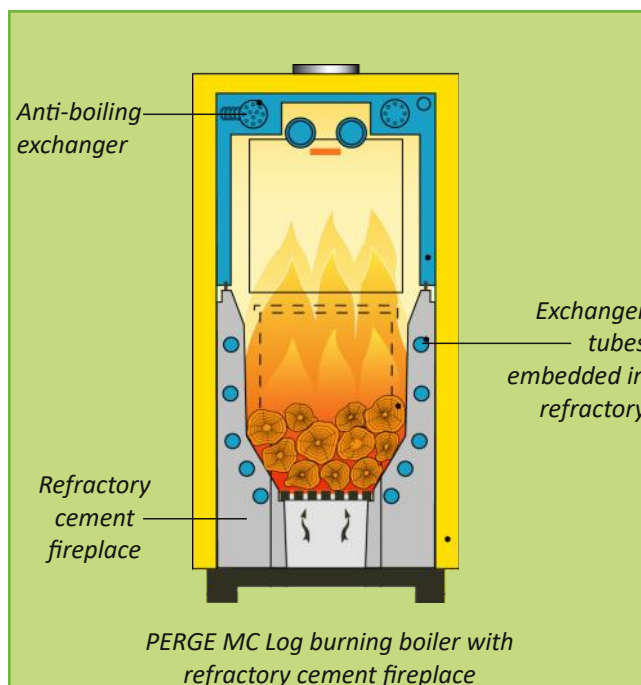
With a PERGE GTEI boiler, you have the choice of your energy. If you use wood as priority energy source, you will automatically switch over to oil when there isn't enough wood.

Thanks to the hydraulic connection kit between the 2 boilers, and the flue gas collector fitted with a smoke thermostat single-duct operation is automatic. In this case, the outputs of the 2 boilers are not added together.

Refractory cement fireplace

In a cast-iron or steel boiler, the temperature of the furnace walls barely exceeds water temperature, or around 80°C. The combustion chamber of PERGE MC boilers is composed by a double tube bundle exchanger connected to a water blade. The whole unit is embedded in a reinforced refractory cement casing, forming the combustion chamber. The inner walls rise to temperatures up to 500°C, ensuring complete, clean and tar-free combustion.

By design, PERGE MC boilers do not suffer from combustion chamber corrosion. As a result, no buffer tank is required. A 3 way valve can be fitted for domestic hot water production or, for manual or automatic control of the heating circuit.



Technical specifications and dimensions

Designation	GTEI 20/24 F30	GTEI 30/24 F30	Optitherm 24 C-F30 special GTEI
Wood Output (kW)	20	30	/
Oil Output (kW)	24	24	24
Boiler dimensions WxDxH (mm)	570 x 868 x 1790	570 x 868 x 2040	570 x 735 x 740
Flue diameter (mm)	180	180	/
Loading door dimensions WxH (mm)	308 x 308	308 x 308	/
Water Capacity (l)	129	139	70
Weight (kg)	445	485	115
Number of packages	4	4	2



F30 compatible biofuel burner

The Optitherm 24 C-F30 special GTEI boiler is equipped with the PERGE FE24-Bio30 oil burner.

Besides their low NOx emissions, FE24-Bio30 burners fitted to Optitherm 24 C-F30 special GTEI boilers benefit from the latest research into biofuels in general and bio-oil in particular.

As an industrial partner in this program, PERGE offers compatible burners with biofuel containing 30% rapeseed ester. In the future, we are talking about biofuel containing 50% rapeseed ester, produced entirely in France.

PERGE MC Classic log burning boilers require only a small flue draught : **from 1,3 mm CE to 1,8 mm CE.**

Moreover, they are supplied with a factory-fitted anti-boiling exchanger, to which a thermal safety valve should be connected to protect against overheating.

Under these conditions, the PERGE MC log burning boiler will be able to operate on a system with a closed expansion vessel.

Warranty

Heating element : 3 years

Accessories (anti-boiling exchanger, draught regulator) : 2 years

Dealer Stamp



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