












Low-temperature
biofuel boiler

Optitherm

Fuel :
up to 100% biofuel

-  24 and 32 kW
-  Heating only or Heating + hot water with 90 or 150 l stainless steel tank
-  Chimney or flue
-  10-year warranty (see below)
-  Control via smartphone app (Connect version)

-  Stoptherm : device preventing any risk of corrosion and allowing operation without a low temperature limit and without a mixing valve
-  Up to 3 circuits (underfloor heating + radiators + DHW tank) without mixing valve directly from the boiler
-  Low-NOx biofuel burner integrated into the boiler (Eco-Conception 2018 certified)
-  **100% biofuel compatible**



Optitherm & Optitherm Connect



Designed to work up to
100% plant based biofuel or
100% hydrotreated vegetable oil

Boiler body warranty : 10 years.

Under conditions :

- 1 - Return of the special warranty certificate 10-year warranty,
- 2 - Annual boiler maintenance by a professional from the first year and throughout the warranty period.
- 3 - Proof: invoices for annual servicing.



PERGE, french boiler manufacturer since 1971



Product robustness

At its site in Portes-Lès-Valence (26), PERGE can count on a workforce dedicated to the quality of the products it manufactures.

Optitherm

Ideal for installation with radiators or wood-oil coupling

Factory-fitted equipment

- + Boiler, burner, storage tank (if DHW) and control panel factory-fitted, ready for operation
- + 2 flow/return circuits. Ideal for coupling with another energy source, such as wood

Optional equipment

- + RTE3, Class III controller for boiler temperature as a function of outdoor T°
- + TH4, Class IV room temperature controller (radio or wired) with daily and weekly programming
- + Hydraulic module for heating circuit including heating circulator, shut-off valves, anti-thermosiphon valve and insulation



Coupling a PERGE Optitherm oil boiler with a PERGE MC log boiler

Optitherm with Duotherm

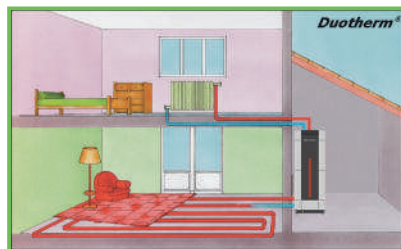
Ideal for underfloor heating and radiator systems

Factory-fitted equipment

- + Boiler, burner, storage tank (if DHW) and control panel factory-fitted, ready for operation
- + Heating circulator circuit n°1 factory fitted
- + Duotherm : system for supplying 2 heating circuits at different temperatures without a mixing valve. Ideal for heating with underfloor heating + radiators.

Optional equipment

- + RTE3, Class III controller for boiler temperature as a function of outdoor T°
- + TH4, Class IV room temperature controller (radio or wired) with daily and weekly programming
- + Hydraulic module for heating circuit no. 2 including heating circulator, shut-off valves, anti-thermosiphon valve and insulation



Direct supply of underfloor heating and radiators with a PERGE Optitherm oil boiler with Duotherm

An oil boiler without a chimney

PERGE Optitherm boilers are also available in a flue version, which means they can be connected without a chimney.

3 types of flue connection are possible :

- **C13 : Horizontal concentric flue** (max : 4 lengths of 1 m + 1 90° bend pipe + 1 terminal)
- **C33 : Concentric vertical flue roof outlet** (max.: 5 lengths, 1 m + 1 terminal)
- **B23/B33 : Connection to chimney**

(max : 1 90° bend pipe + 1 B23/B33 adapter + 1 90° T-pipe + 12 m of duct)



Environmentally friendly

In addition to the low NOx burner, PERGE Optitherm oil boilers also benefit from the latest research in the field of biofuel.

As an industrial partner in this program, PERGE offers burners compatible with biofuel containing up to 100% rapeseed ester.

Easy to install

Thanks to the Stoptherm system, dew point inside the heat exchanger body is avoided, without the need for a mixing valve. Operation without low temperature limit, or even total boiler shutdown. Maintenance costs are reduced, with significant fuel savings. No risk of exchanger body corrosion.

Team proximity

Customer service is at the heart of the PERGE technical and sales teams' approach.



100% biofuel compatible

Optitherm Connect+

The premium solution for all types of installation with additional remote control

Factory-fitted equipment

- + RC7, Class VII boiler temperature control based on outdoor temperature, heating curve correction based on ambient data.
 - + Myperge, application for Android or iOS smartphone. Local control via Bluetooth or Internet, remote control via Internet.
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- + Boiler, burner, storage tank (if DHW) and connected RC7 controller factory-fitted, ready for operation
 - + Heating circulator circuit n°1 factory fitted
 - + Duotherm : system for supplying 2 heating circuits at different temperatures without a mixing valve. Ideal for heating with underfloor heating + radiators.

Optional equipment

- + Wired or radio outdoor and room temperature sensors



Climate control with room correction (class VII) connected

RC7 is a class VII control, acting simultaneously on the heating circuit temperature :

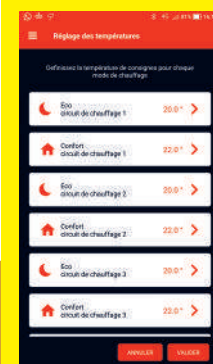
- by modulating it according to external climatic conditions ;
- by adapting and correcting it according to ambient needs.

The temperature sensors are easy to install and transmit information by wire or radio.

The device is controlled via your smartphone using the MyPerge app, available from Google Play (Android) or Apple Store (iOS).



Connection is made locally via **Bluetooth** or **Internet**, or remotely via **Internet**. Data exchanges are encrypted for greater security.



You can control **up to 3 heating circuits** or **2 heating circuits + 1 domestic hot water circuit**.

The outdoor sensor is available in a wired or radio version. Each heating circuit is equipped with a wired or radio **room sensor**. The room sensor is also available with manual comfort temperature setting.



Outdoor or room sensor without manual comfort temperature setting



Room sensor with manual comfort temperature setting

Technical and dimensional specifications

All Optitherm Models	24 C-F30	32 C-F30	24 B90-F30	24 B150-F30	32 B150-F30
Maximum power output (kW)	23,5	32,1	23,5	23,5	32,1
Maximum useful output (%)	97,1	97,3	97,1	97,1	97,3
Seasonal Energy Efficiency Seer (%) as per 813/2013 (without regulation)	86,3	86,9	86,2	86,2	86,9
Seasonal Energy Efficiency Class as per 813/2013 (without regulation)	B	B	B	B	B
NOx emissions (mg/kWh) - Maximum threshold in 2018 : 120	110	104	110	110	104
DHW tank volume (l)	/	/	90	150	150
Optitherm - Chimney or Flue					
Boiler height (mm)	920	920	1590	1590	1590
Chimney version					
Boiler width (mm)	500	600	500	600	600
Boiler depth (mm)	680	680	680	680	680
Smoke nozzle diameter (mm)	125	150	125	125	150
Flue version					
Boiler width (mm)	600	600	600	600	600
Boiler depth (mm)	990	990	990	990	990
Flue outlet diameter (mm)	80 / 125	80 / 125	80 / 125	80 / 125	80 / 125
Weight (kg)	148	158	200	210	220
Optitherm Connect+ - Chimney or Flue					
Seasonal Energy Efficiency Seer (%) as per 811/2013 (with regulation)	89,8	90,4	89,7	89,7	90,4
Seasonal Energy Efficiency Class as per 811/2013 (with regulation)	B	A	B	B	A
Boiler height (mm)	920	920	1590	1590	1590
Boiler width (mm)	600	600	600	600	600
Boiler depth - chimney version (mm)	680	680	680	680	680
Smoke nozzle diameter - chimney version (mm)	125	150	125	125	150
Boiler depth - flue version (mm)	990	990	990	990	990
Flue outlet diameter (mm)	80 / 125	80 / 125	80 / 125	80 / 125	80 / 125
Weight (kg)	148	158	200	210	220

Warranty

Heat exchanger body : 3 years extended to 10 years under the conditions listed on the front page

Electrical and electronic equipment : 2 years

www.perge.com

Find our catalog-price list, documentation and more information on all our products at **www.perge.com**

Dealer stamp



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