# Definitions

**Fuel:**

* Solid: wood, pellets, coal, etc. (no waste)
* Liquid: gas oil, heating oil, fuel oil, biodiesel, rapeseed oil, etc.
* Gas: natural gas, propane, butane, etc.

**Combustion plant:**

Technical equipment in which solid, liquid or gaseous fuel is burned for:

* Electricity production (turbines and motors for, among other things, co-generation and emergency power supplies)
* Heating installation (comfort heat and (optional) hot water)
* Heat or steam production for industrial purposes (process heat)

**Central heating installation:**

Combustion plant for:

* the heating of buildings (comfort heat)
* (optional) for the production of hot water.

With a central boiler (optional: a separate burner), where the heat produced and distributed to several separate rooms via a ducted transport system.

**No central heating installation:**

* Electric heating installation
* Individual heating installation (stove, indirectly-fired air heater, etc.)
* Installation exclusively for the production of sanitary hot water (gas water heater, boiler, etc.)
* Heating installation in boats, caravans, etc.

**Power capacity of a combustion plant:**

* Qn: nominal thermal input power capacity i.e. the power capacity at the input of the installation.
* Pn: heating power capacity i.e. the power capacity at the output of the installation.

# Flemish Region

## Notification or Permit

A combustion plant must be included in the environmental license if the sum of the nominal thermal input capacities (Qn) of all combustion plants in the establishment is at least 300 kW.

## Test before first use

**When?**

* After a new installation has been put in place
* After the relocation of an existing installation
* After the replacement or conversion of a burner or boiler

And before commissioning.

**By?**

[Licensed technician](https://omgeving.vlaanderen.be/erkende-personen-bedrijven-en-opleidingscentra-zoeken) (or skilled craftsman for solid fuel burners).

## Technical maintenance

**When?**

Central heating installations:

* Power capacity Pn < 20 kW:
	+ Liquid fuel: recommended
	+ Gaseous fuel: recommended
	+ Biomass: annual
* Power capacity Pn < 20 kW:
	+ Liquid fuel: annual
	+ Gaseous fuel: every two years
	+ Biomass: annual
* After a change to the installation

Other combustion plants: recommended

**By?**

[Licensed technician](https://omgeving.vlaanderen.be/erkende-personen-bedrijven-en-opleidingscentra-zoeken) (or skilled craftsman for solid fuel burners). The aforementioned recognised technician issues the necessary maintenance certificates.

## Heating audit

**When?**

Central heating installations:

* All capacities: after the appliance is 5 years old, together with the next service.
* Power capacity Pn < 100 kW: repeat every 5 years
* Power capacity Pn < 100 kW:
	+ Liquid fuel: every two years
	+ Gaseous fuel: every four years

Other heating installations: recommended

**By?**

* Power capacity Pn <100 kW: [recognised technician](https://omgeving.vlaanderen.be/erkende-personen-bedrijven-en-opleidingscentra-zoeken) “Gaseous fuels” or “liquid fuels”
* Power capacity Pn ≥ 100 kW: [recognised expert](https://omgeving.vlaanderen.be/erkende-personen-bedrijven-en-opleidingscentra-zoeken) “heating audit”.

## Emission measurements

**When?**

* Power capacity Qn 0.3 MW to 5 MW (small combustion plants) on fossil fuels: every five years
* Power capacity Qn 5 MW to 50 MW (medium combustion plants) on fossil fuels: every two years
* Power capacity Qn > 50 MW (large combustion plants) on fossil fuels: quarterly
* All capacities with < 100 operating hours/calendar year (operating hours recorded in a logbook): no emission limit values

Note: there are also deviations for medium and large installations that are in use less than 500 hours per year.

**By?**

[Accredited lab](https://omgeving.vlaanderen.be/erkende-personen-bedrijven-en-opleidingscentra-zoeken).

# Brussels-Capital Region

## Notification or Permit

An installations must be included in the environmental license if:

* Heating installation: the sum of the nominal thermal input capacities (Qn) of all heating installations in the same room is at least 100 kW.
* Motor cogeneration: the sum of the nominal thermal input capacities (Qn) of all motors in the same room is at least 20 kW.
* Motor for emergency power supply or sprinkler system: the rated thermal input power capacity (Qn) of a motor is at least 20 kW.

## EPB delivery

**When?**

All heating installations on gaseous or liquid fuels

* After a new installation has been put in place
* After the relocation of an existing installation
* After the replacement or conversion of a burner or boiler

Within a month of commissioning.

Water heaters (geyser, boiler, etc.)

* After a new installation has been put in place
* After the relocation of an existing installation
* After the replacement or conversion of a burner

Within a month of commissioning.

**By?**

* Power capacity Pn ≤ 100 kW: [EPB heating consultants type 1](http://app.leefmilieubrussel.be/lijsten/?nr_list=PEB_023)
* Power capacity Pn > 100 kW or several boilers combined: [EPB heating consultants type 2](http://app.leefmilieubrussel.be/lijsten/?nr_list=PEB_024)

## EPB periodic inspection and Technical maintenance

**When?**

Water heating installations (geyser, boiler, etc.)

* Gaseous fuel: every two years

Other heating installations on gaseous or liquid fuels

* Liquid fuel: annual
* Gaseous fuel: every two years

Motor for emergency power supply: annually

Other combustion plants: recommended

**By?**

Heating installations: [EPB boiler technician](https://leefmilieu.brussels/themas/gebouwen-en-energie/verplichtingen/de-energieprestatie-van-gebouwen-epb/lijst-van-erkende)

Other installations: specialist

## EPB diagnosis HEATING

**When?**

All heating installations on gaseous or liquid fuels

* Power capacity Pn > 100 kW or several boilers combined: every five years

**By?**

[EPB heating consultants type 2](http://app.leefmilieubrussel.be/lijsten/?nr_list=PEB_024)

## Emission measurements

**When?**

Power capacity Qn ≥ 1 MW to ≤ 20 MW

* Gas turbines: annually
* Motors: annually
* Heating installations:
	+ Gaseous fuel: every two years
	+ Other fuels: annually
	+ Power capacity Qn > 20 MW: annually

Power capacity Qn > 20 MW

* All combustion plants: annually

Note: there are deviations for emergency power supplies and heating installations which are in use no more than 50 hours per year and 500 hours per year respectively.

**By?**

Accredited lab.

# Walloon Region

## Notification or Permit

A combustion plant must be included in the environmental license if it has a nominal thermal input power capacity (Qn) of at least 100 kW.

## Delivery

**When?**

Central heating installations:

* After a new installation has been put in place
* After the relocation of an existing installation
* After the replacement or conversion of a burner or boiler

At the same time as commissioning, or 15 days after commissioning at the latest.

**By?**

[Licensed technician](http://www.awac.be/index.php/chauffagistes)

## Periodic inspection

The periodic inspection consists of:

* The periodic check
* The detailed diagnosis (“diagnostic approfondi”): only for central heating installations using liquid or gaseous fuels with an output capacity Pn > 20 kW.

**When?**

Central heating installations

* Solid fuels: annually
* Liquid fuels: annually
* Gaseous fuels:
	+ Power capacity Pn ≤ 100 kW: every three years
	+ Power capacity Pn> 100 kW: every two years
* After every change to the installation

**By?**

[Licensed technician](http://www.awac.be/index.php/chauffagistes)

## Regular technical maintenance

**When?**

Periodicity is not legally defined: this depends on the installation.

In practice, maintenance is often carried out at the same time as the periodic inspection.

**By?**

[Licensed technician](http://www.awac.be/index.php/chauffagistes)

## Emission measurements

**When?**

Power capacity Qn ≥ 1 MW and < 50 MW (medium-sized combustion plants)

* Annually
* Combustion plants, other than motors and gas turbines, running on natural gas and Qn ≤ 20 MW: every two years

Power capacity Qn ≥ 50 MW and < 100 MW (large combustion plants)

* Every six months

Power capacity Qn > 100 MW

* Continuous

NB: there are deviations for installations that are in use for no more than 500 hours per year.

**By?**

Accredited lab.