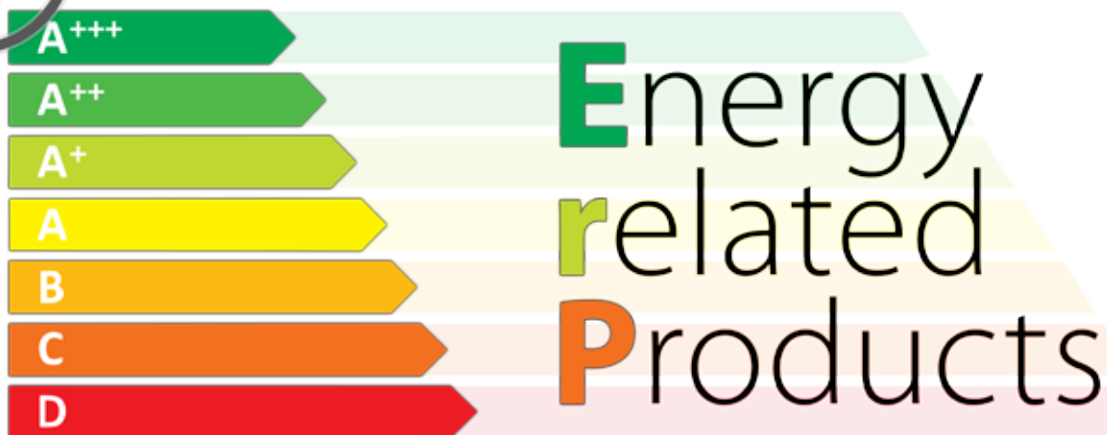


MINIMUM EFFICIENCY AND NOISE REQUIREMENTS & ENERGY LABELLING



September 26th 2015, the **ErP Delegated Regulations (Energy related Products)** came into force for all **heating and hot water products** and for **systems** composed from the combination of different equipment.

In order to be placed on the **European market** by the manufacturers:

- all room heating and domestic hot water production equipment with **rated power up to 400 kW** or a volume of up to 2000 litres must meet the criteria for Ecodesign, also on the basis of minimum **seasonal energy efficiency requirements**;
- all room heating and domestic hot water production equipment with **rated power up to 70 kW** or a volume of up to 500 litres must comply with not only the criteria for Ecodesign on the basis of minimum **seasonal energy efficiency** requirements, but also **maximum noise levels** (for heat pumps) and **energy labelling** requirements.

SEPTEMBER 26th 2017: NEW ENERGY EFFICIENCY LEVELS

On September 26th 2017, new energy efficiency levels came into force.

The **minimum energy efficiency class** to place a product on the European market is now **A+ in heating**.



REGULATIONS

4 European Regulations:

- **811/2013:** energy labelling of heating and domestic hot water production equipment;
- **812/2013:** energy labelling of equipment for domestic hot water production only;
- **813/2013:** ecodesign requirements for heating and domestic hot water production equipment;
- **814/2013:** ecodesign regulation for equipment for domestic hot water production only.

With these 4 regulations all room heating and domestic hot water production equipment launched onto European markets must comply with:

- **eco-friendly design (ECODESIGN);**
- **energy labelling (ErP ENERGY LABELLING).**

WHAT DO THE REGULATIONS REQUIRE?

ECODESIGN – eco-friendly design - Reg. 813/2013 and 814/2013 implementing Directive 2009/125/CE

ECODESIGN sets the criteria that products must comply with to be placed on the market with regards to:

- **Heating minimum performance**
Minimum seasonal energy efficiency performance in heating is required.
- **Hot water production minimum performance**
For combi boilers and domestic hot water appliances are defined load profiles (sequences of water demand indicated as S, M, L, XL, ...) and consequent minimum performances.
- **Maximum allowable noise**
For heat pumps with rated power up to 70 kW, the regulations define the maximum allowable noise level both for internal and external units according to appliance power.

ErP ENERGY LABELLING – Energy labelling - Reg. 811/2013 and 812/2013 implementing Directive 2010/30/UE

The Labelling Directive (2010/30/EU) requires products to be labelled according to an efficiency band, ranging from A++ (A+++ starting from 2019) to G (D starting from 2019).

An energy label for the installed system is also required, depending on the used components (for example, a boiler, DHW cylinder and room controls if installed).

WHICH PRODUCTS ARE INVOLVED?

ECODESIGN – eco-friendly design - Reg. 813/2013 and 814/2013

- Gas and liquid fuels boilers for heating and domestic hot water production up to 400 kW;
- Hydronic heat pumps for heating and domestic hot water production up to 400 kW;
- Systems of the products above + solar equipment, up to 400 kW;
- Water heaters up to 400 kW and domestic hot water tanks with a volume up to 2000 liters;
- Systems with water heaters up to 400 kW and domestic hot water tanks with a volume up to 2000 liters + solar equipment up to 400 kW and water tanks with a volume up to 2000 liters.

ErP ENERGY LABELLING - Energy labelling - Reg. 811/2013 and 812/2013

- Gas and liquid fuels boilers for heating and domestic hot water production up to 70 kW;
- Hydronic heat pumps for heating and domestic hot water production up to 70 kW;
- Systems of the products above + solar equipment, up to 70 kW;
- Water Heaters up to 70 kW and domestic hot water tanks with a volume up to 500 liters.

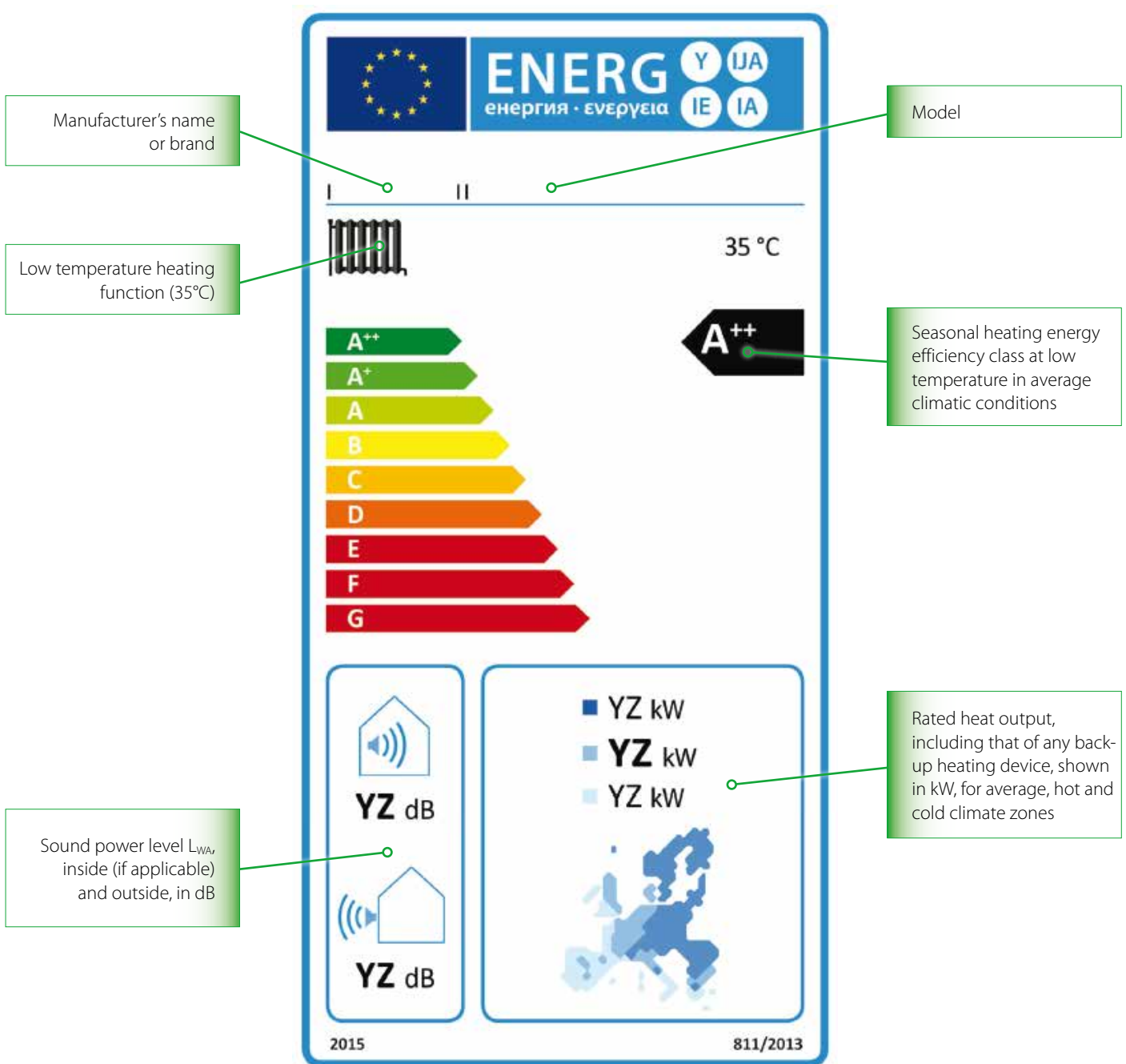
WHICH COUNTRIES ARE INVOLVED?

The regulations apply to all EU countries.

WHAT DOES THE NEW PRODUCT ENERGY LABELLING LOOK LIKE?

Below you can find an example of the new label to be applied to the product.

The example is of a heat pump for heating in low temperature applications (radiant panels).

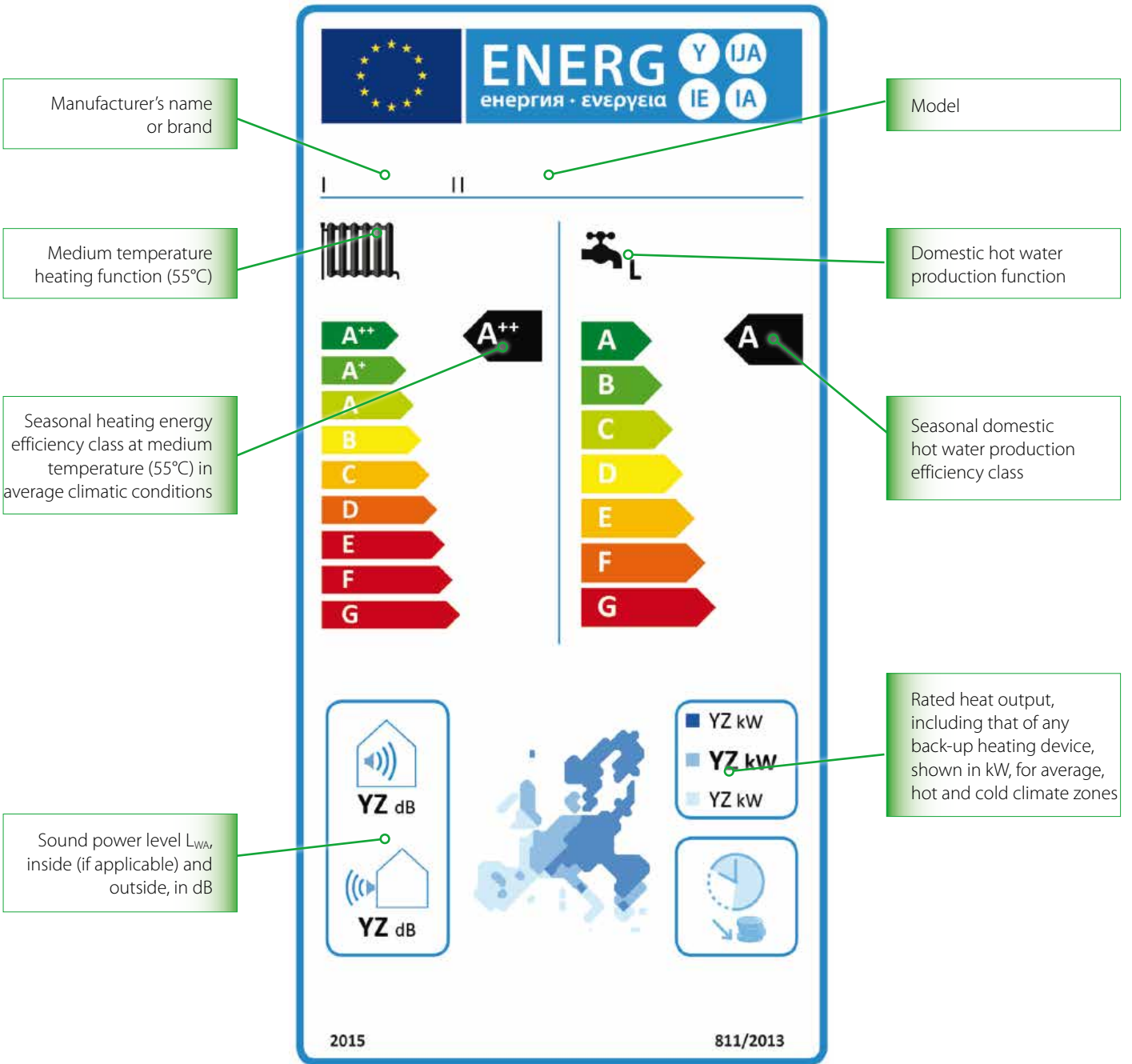


This label must be enclosed in the product package by the producer.

The distributor or importer will attach it on the frontal panel of the product on display.

WHAT DOES THE COMBI PRODUCTS NEW ENERGY LABELLING LOOK LIKE?

The heat pumps for heating and hot water production show on the label the double application: on the left the heating function and its energy class, on the right the domestic hot water production energy class.

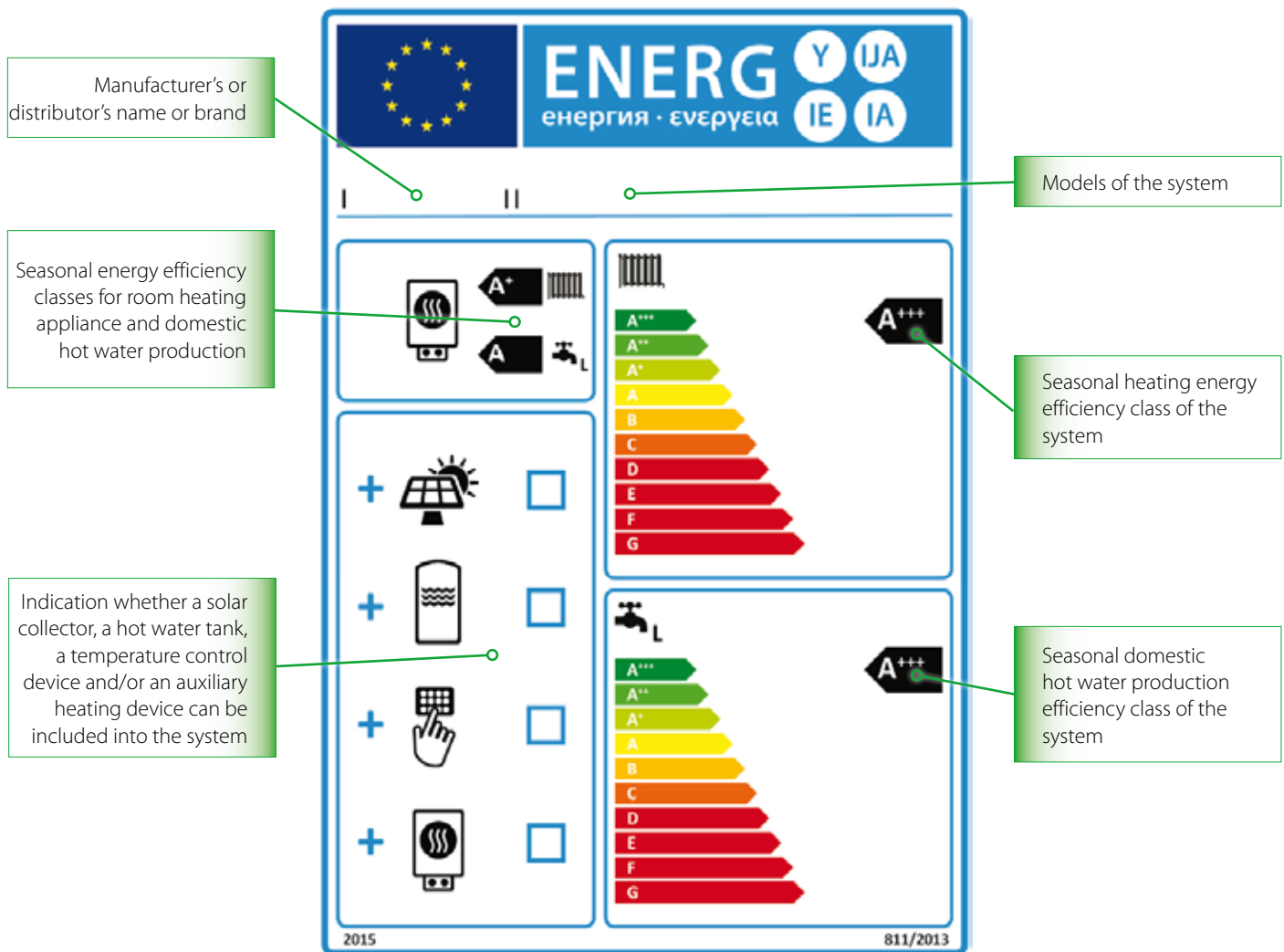


WHAT DOES THE SYSTEM NEW ENERGY LABELLING LOOK LIKE?

For systems with different combined products, the EU regulations require also a system labelling.

A system is a group of various individual products, in any combination, acting as a system. This could be, by way of example, a system consisting of a heat pump, a boiler, a solar thermal system and an electronic system control, all working as a single unit and, therefore, with an energy performance that can be calculated as the combination of its individual components.

Below you can find an example of the new system label:



The manufacturer who supplies a system must produce also the system label. The system label must be produced also by the distributor or installer who supplies a product system.

Clivet, which has always focused its proposal on complete systems, dedicated to different system applications so that all the elements of the system are designed to be compatible among themselves guaranteeing the maximum efficiency of system, provides its customers with the system labels.



WHAT ARE THE OBLIGATIONS AND FOR WHOM?

Manufacturer

- To place on the EU market only products consistent with the minimum requirements of the ErP regulations;
- To provide the Energy Label for the product and system proposed;
- To provide support tools to the customers (information and technical documentation).

Wholesaler

- To show the label on the displayed product;
- To provide the Energy Label for the system if proposed by the wholesaler.

Installer

- To provide the Energy Label for the system if proposed by the installer.

End customer

- The end customer has no obligations.

WHAT HAPPENS TO PRODUCTS WHICH DO NOT MEET ERP REQUIREMENTS, OR DO NOT HAVE THE ENERGY LABEL?

Non ErP compliant products or products without Energy label cannot be sold to European market by manufacturers.

The same regulations also apply to products imported into EU countries.

Products released to market before September 26th 2017 but still in the distribution chain (for instance in the warehouse of a reseller or wholesaler) are not subject to the directives and may be sold until stocks are exhausted.

AND CLIVET'S PRODUCTS?

New regulations highlight the excellence of the heat pump in terms of energy efficiency both as single product and system, sustainability and cost savings for the end user.

Clivet, which always focuses its proposal on solutions granting complete and sustainable comfort for various types of building, offers a wide range of systems and heat pumps (air to water and water to water) with efficiencies ranging from Class A+ to Class A+++.

Also as far as acoustic aspect is concerned, Clivet products and systems ensure maximum acoustic comfort.

In this way Clivet passes the very strict regulations to which heating equipment manufacturer are subject from September 26th 2017.

WHAT SUPPORT TOOLS DOES CLIVET OFFER?

Clivet harmonized its technical documentation - both online and offline - as well as the selection software with the new guidelines.

On-board documentation and commercial documentation provide clear information about the new energy classes.

Clivet website offers detailed information about every model and configuration.

DO YOU HAVE ANY OTHER QUESTIONS?

Clivet sales team provides designers, installers and end users clarification that they may require about the environmentally- friendly features (efficiency and noiseless operation) of its equipment, as well as with any other tools about the new directives and their implementation.



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