

GUIDANCE TO
EUROPEAN REGULATIONS
“ErP” and Energetic Labelling “ELD”



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ErP and ELD what changes?

Starting from September 26, 2015, in Europe, a new way to evaluate products and air systems' performances is introduced. It consists of applying European rules "Ecodesign" and energetic labelling to heating, cooling products and to products for the DHW production.

This path started in 2007. In accordance with the Kyoto Protocol rules, European Union have launched some measures for the environmental and climatic protection, namely **Energy Related Products Regulation (ErP) and Energy Labelling Regulation (ELD)**

The final aim is the improvement of heating and air-conditioning systems' general performances, in Italy and in European Union.

The **energetic label** will enable the end user to have a better "energetic awareness" and to feel more guided during the purchase of these products.

However, we want to remind that the **important role of the installer and the heating technician** has remained unchanged: their great experience and professionalism are not possible to be replaced in getting the end user to choose the best installing solution for him.

Boilers and other systems are connected to the building and, if properly designed, can satisfy even the most complex needs.

- As regarding the houses' energetic rehabilitation, in Italy, **the subsidies are valid until December 31, 2015.**
- The application for the **65% tax deduction** regards, for example, a substitution of an air-conditioning with: a condensing boiler, heat pump on high efficiency, solar panels for DHW production.

Unical is surely in line with the new EU regulations.

On the website, the ErP technical data are indicated for each product and the energetic label, when necessary, as well. Unical Pre-Sale Service is at disposal for further information on the telephone number 0523 822541.

> Starting from **AUGUST 1, 2015** the below EU Regulations have become law:
n. 641/2009 – n. 622/2012, regarding the circulators,
all the air-conditioning systems have to be equipped
with high efficiency circulators.

> Starting from **SEPTEMBER 26, 2015**
the below EU Regulations have become law:
n. 811/2013 – n. 812/2013 – n. 813/2013 – n. 814/2013
for devices for the environmental heating and cooling
and for the DHW production,
new rules are introduced:

■ **ErP** (Energy related Product)

Ecodesign, Environmental friendly Design

Regulation defining the requirements products must meet in order to be sold on the market:
EFFICIENCY for heating and DHW production – NO_x EMISSIONS – NOISE for external units
of heat pumps.

■ **ELD** (Energy Labelling Directive)

Labelling, Energetic Labelling

Directive about the labelling of heating and for the production of DHW systems up to 70 kW
and the water collectors up to 500 litres: the label indicates the energetic efficiency class.

IMPORTANT:

Products introduced in the European market **before September 26**,
which do not meet the new Directive's requirements (**for example**
the traditional boilers with forced draught and the boilers
without the high efficiency pump) can though be sold, purchased and installed.



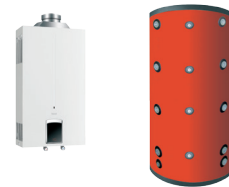
ErP Ecodesign is compulsory for:

1



Gas or other fuels boilers, diesel boilers for heating and production of D.H.W. (until 400 kW)

4



Water Heaters (until 400 kW) and D.H.W. collectors with 2000 litres of capacity

2



Heat Pumps for heating and production of D.H.W. (until 400 kW)

5



Systems with boiler, heat pump, solar water heater (until 400 kW) and solar collectors with 2000 litres of capacity

3



Integrated Systems with boiler and heat pump (until 400 kW)



ELD Ecodesign is compulsory for:

- Generators until 70 kW of thermal power
- Collectors/Boilers D.H.W. until 500 kW of capacity

By combining the products and their components and adding, for example, a control unit for **thermoregulation**, it is possible to increase the system's energy classification, which will be calculated by the installer and noted on the box label.

The regulation for the **solid fuel products** will enter into force starting from April 2017.

ErP Ecodesign

This regulation defines the **MINIMUM REQUIREMENTS FOR PRODUCTS TO SATISFY** in order to be introduced in the European market starting from September 26, 2015:

■ Seasonal performances for heating

MINIMUM PERFORMANCES are required, as regarding the **heating function**, diversified according to the type of products and the **energetic seasonal performance**.

■ Minimum performances for the sanitary

For the **mixed devices** (with instantaneous production and/or D.H.W. collection) and for the **water heaters**, as regarding the **sanitary performance**, some **LOADING PROFILES** and their **corresponding minimum performances** are required to be satisfied. Loading Profile refers to a sequence of extractions of hot water, during the day, with specific characteristics for the flow, temperature, duration and Δt . For each product, the manufacture has to declare the selected **LOADING PROFILE** (indicated with the “sizes” S, M, L, XL, etc.) and guarantees the minimum performance, connected to the size.

■ Maximum polluting emissions

Starting from September 26, 2018 NO_x emissions will have to respect specific limits, in connection with the category of product. In these 3 years, the limits established by each country will be valid.

■ Maximum noise

For the heat pumps, there are some limits for the sound emissions, both for internal and external units, in connection to the devices' power.

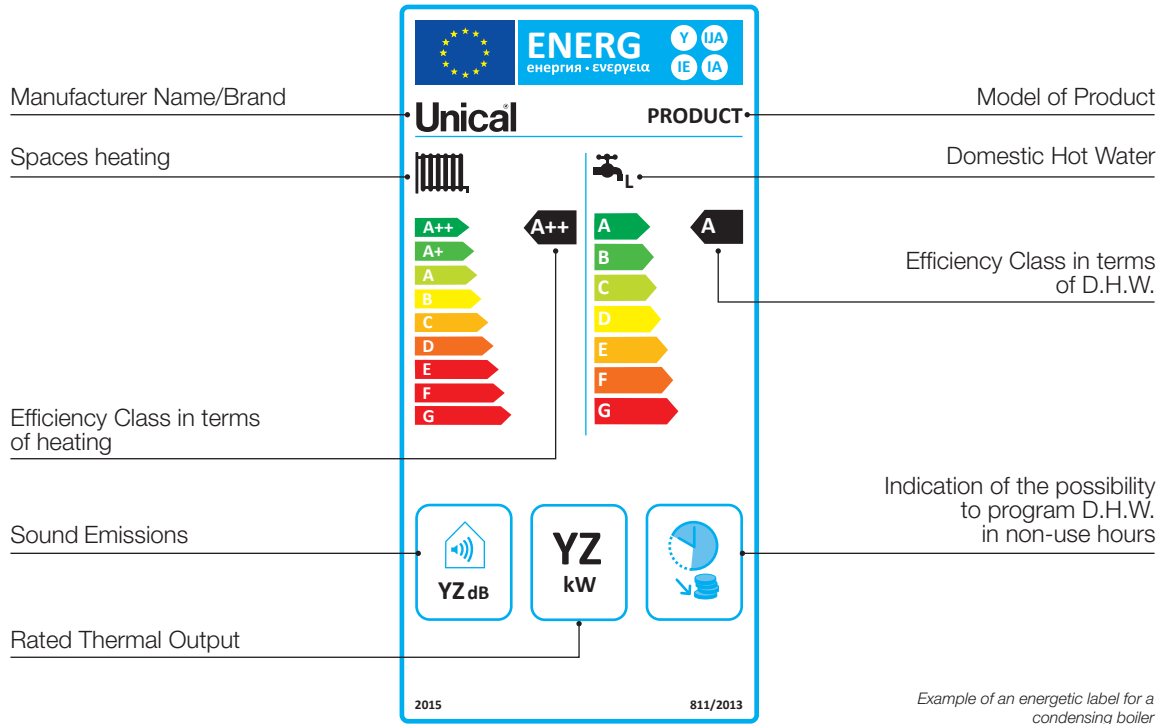
ELD Energetic labelling

■ Energetic labelling and product details

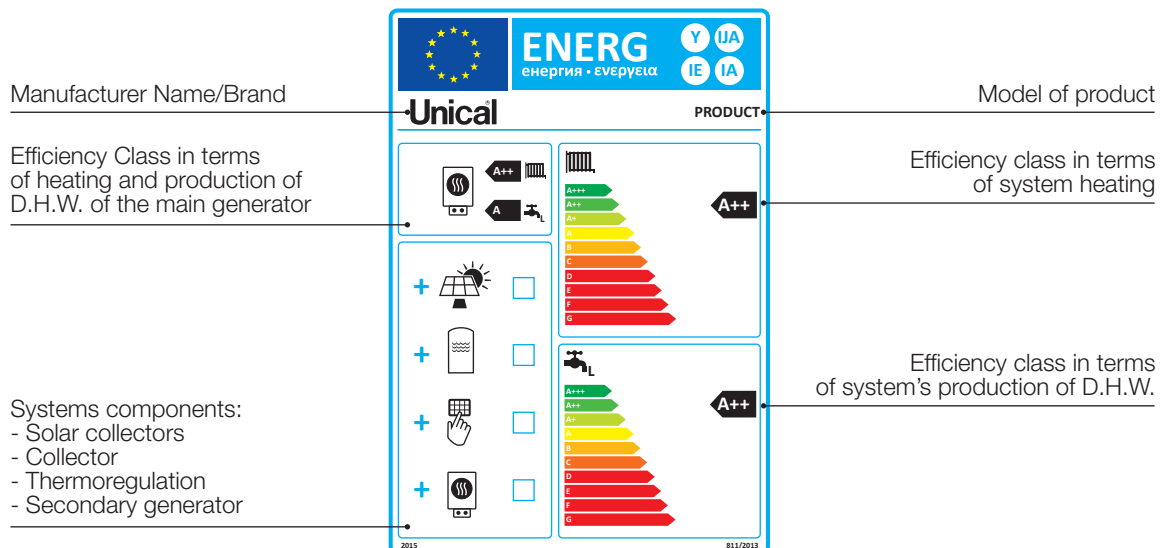
Devices up to 70 kW and the collectors up to 500 litres of volume will be equipped with an **ENERGETIC LABEL** and a **PRODUCT DETAILS**, starting from September 26, 2015. The energetic label will classify products with a letter between A+++ and G, depending on the efficiency.

Information about Energetic Labelling:

> DEVICES FOR HEATING/D.H.W. up to 70 kW and COLLECTORS up to 500 litres



> HEATING SYSTEMS/MIXED D.H.W., devices for temperature control





INSTALLERS


- They can sell products not in line with ErP regulation, without energetic label nor circulator at high efficiency, only if these products have been sold by the manufacturers before the regulations started their effect:
 - August 1 for the circulators
 - September 26 for the generators
- Conversely, they have to supply devices with the energetic label and the product details for all the devices and set of devices already installed.

MANUFACTURERS

- Starting from August 1, 2015, manufacturers can introduce in the European market only products equipped with the circulator at high efficiency.
- Starting from September 26, 2015, manufacturers can introduce in the European market only products, which meet the ErP regulation requirements.
- Starting from September 26, 2015, manufacturers have to supply all the devices and set of devices with the energetic label and the product details.

DEALERS

- Starting from September 26, 2015, dealers have to show the energetic label on products on display.
- Starting from September 26, 2015, dealers have to supply the energetic label and the product details for the products and set of products, which are directly sold.
- They can sell non-ErP products, without energetic label nor circulator at high efficiency, only if introduced in the market by the manufacturers before the regulations' entry into effect (August 1 for the circulators – September 26 for the generators).

		ErP Ecodesing		ELD Labelling	
		≤ 400 kW	≤ 2000 l	≤ 70 kW	≤ 500 l
	BOILERS Gas Boilers and liquid fuel boilers for heating and production of D.H.W. Only condensing and open chamber boilers up to 30 kW can be introduced into European market.				
	THERMAL UNITS Diesel thermal groups (boiler + burner): can be introduced into the market only if they meet the minimum requirement of the ErP regulation. October 2015: for the category “boilers without the burner introduced into the market by the manufacturer”, the necessity to satisfy the ErP regulation is still to be declared.				
	WATER HEATER Only products which meet the minimum requirements for the ErP regulation can be introduced into the market.				
	WATER COLLECTORS Only products which meet the minimum requirements for the ErP regulation can be introduced into the market.				
	HEAT PUMPS Heat pumps for heating and for the production of D.H.W. Only products which meet the minimum requirements for the ErP regulation can be introduced into the market.				
	Integrated SYSTEMS: Boiler Heat Pump				
	SYSTEMS with: Boiler Heat pump Solar water heater Collectors				

This is only the starting point. On September 26, 2017, 2018 and 2019 more and more selective and restrictive regulations will enter into force.

Unical will keep on guiding you to make the most accurate and proper choice!

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