

ErP labelling made easy:
Viessmann makes you fit for the new energy efficiency labelling



Heating systems ◀
Industrial systems
Refrigeration systems

The ErP Directive and the energy efficiency certificate for heating systems

Standardised energy-efficiency labelling already exists for many energy and water-consuming household appliances. Now comes the energy-efficiency label for heat generators, water heaters and storage as well.

After the adoption of the new directive by the European Union, products from the field of heating technology also have to bear the energy-efficiency label in accordance with the ErP Directive (Energy-related Products) from September 26, 2015 on. The label that consumers already know from refrigerators, televisions and washing machines, for example, then also becomes obligatory for heat generators, water heaters, storage devices and entire heating systems.

Energy efficiency labelling: standardised throughout Europe

The legal basis for the labelling is various EU directives and regulations, in particular the Energy Labelling Directive 2010/30/EU, or the ErP Directive (Energy-related Products) for short. At first the labelling requirements apply to oil and gas heaters, combined heat and power generation systems, heat pumps, water heaters and complete systems.

More transparency for building owners and renovators

The standardised energy-efficiency label throughout Europe is intended to provide building owners and renovators with a basis for comparison – and therefore an aid to decision-making – when they want to buy a new heating system. On the basis of a calculation process stipulated by the EU Commission, the energy efficiency of a heat generator is determined. The efficiency is shown on a scale from A++ to G. In the case of water heaters, the scale ranges from A to G. Combined devices that are used for both room heating and hot water production show the classification for the two applications separately. In addition to the breakdown into energy efficiency classes, details are also provided on the label of the power levels and noise emissions.

Assistance with decision-making for the end consumer: The new European-wide standardised energy-efficiency label.

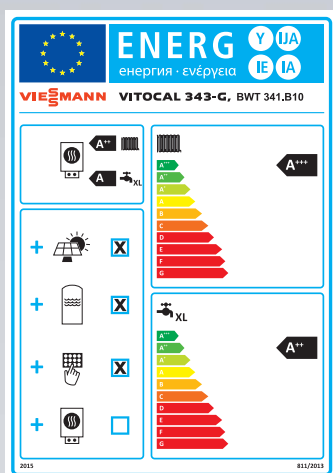


The system is more than the sum total of its parts

Heating systems usually consist of several energy-related components. Therefore, once the entire system has been configured, the individual product labels are supplemented by a composite label. This then characterises the entire system. It may well be that the composite label shows a better energy efficiency classification than the individual components. It is possible, for example, that the addition of a thermal solar energy system to a gas or oil boiler will result in a higher efficiency category.

Everything from a single source means: more efficiency

Complete Viessmann systems from a single source guarantee that all parts are perfectly matched. This means that in practice, the overall system achieves the highest efficiency levels. In the Viessmann all-inclusive offer you will find all system components required to achieve system configurations with efficiency ratings up to A+++.



The standardised energy-efficiency label: A known quantity for the consumer

The European-wide standardised labelling of heat generators, water heaters and storage units using efficiency labels provides more transparency in terms of energy consumption.

The aim is to raise the awareness of consumers in the EU for the economical use of energy resources. A further step forward in this process is the labelling of heating components and systems with the efficiency label.

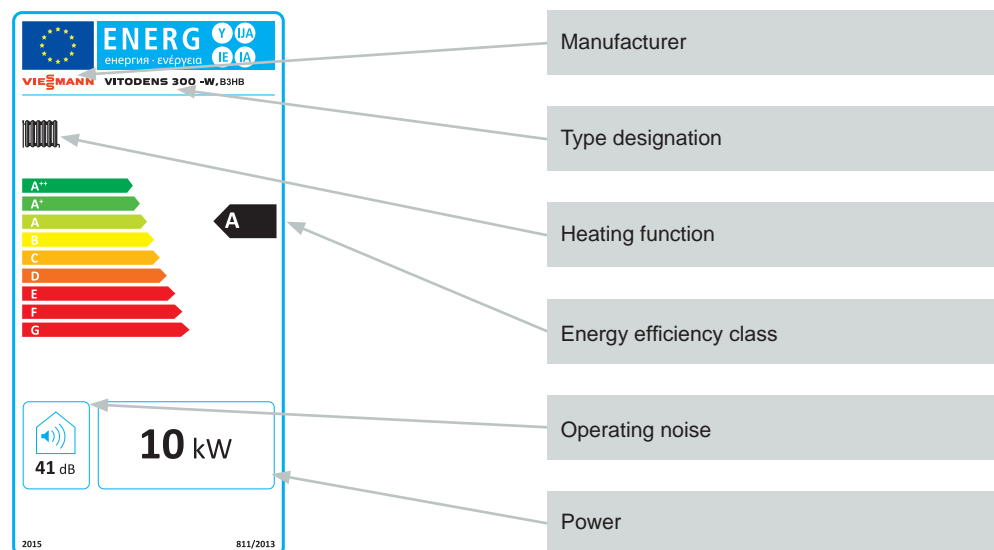
Deadline: September 26, 2015

From September 26, 2015 on, you as a skilled craftsman are required to state the efficiency classification according to the EU directives in your offers. All products which are delivered and invoiced before this deadline may continue to be sold, installed and put into operation without any efficiency label.

Strengthen your consulting skills

The energy-efficiency label is a guideline for consumers, although a decision in favour of the purchase of a particular heating system should never be taken solely on the basis of the label. The important aspect is the interaction of the building and plant technology. Only if systems are designed in accordance with the requirements of the building do they also reach maximum efficiency levels. Well-informed individual advice is becoming increasingly important – not only for the best system in each case, but also for satisfied customers.

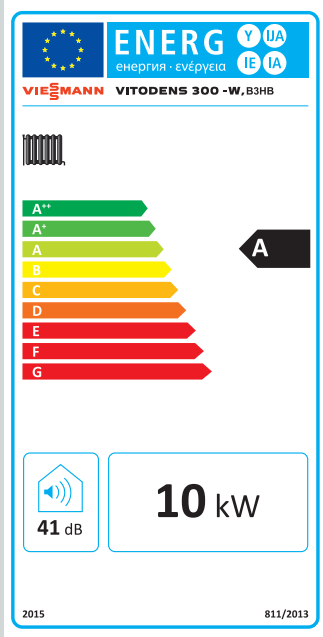
The details about the devices provided on the efficiency labels vary depending on the product family. The energy efficiency category is of course of primary interest to the consumer – indicated with a black arrow.



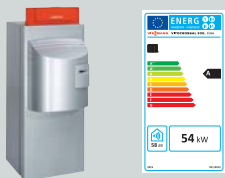
Label is specified by the manufacturer

Label is determined for every system

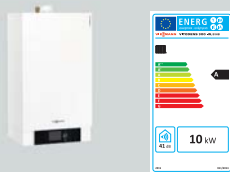
Room heaters



Boiler



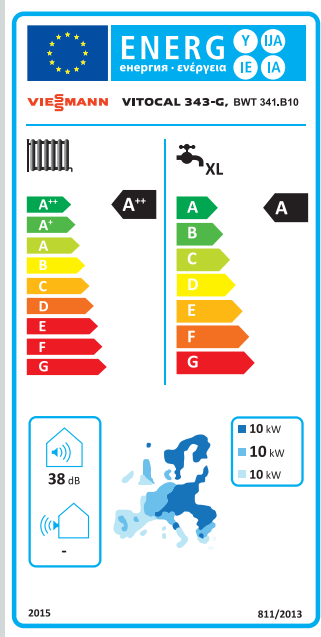
Wall mounted gas device



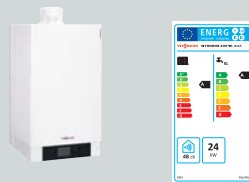
Heat pump



Combined devices



Combi water heater



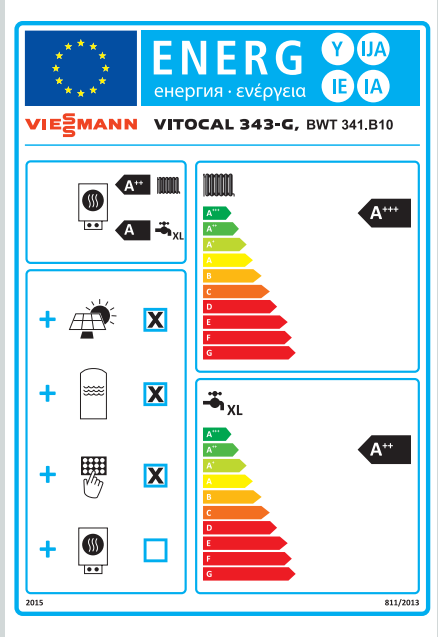
Compact devices



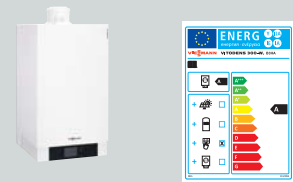
Heat pump compact unit



Composite systems



Boiler with control



Condensing compact solar unit with collectors



Heat pump combi boiler with solar energy system



All-inclusive programme, complete system technology, all-round service

Viessmann makes calculation of the efficiency class easy for you. You receive all of the products either complete with an efficiency label and data sheet or use the Viessmann calculation tool to calculate the composite label in the case of system combinations.

An all-round provider means for Viessmann: the service is also complete in every respect. For this reason we support our partners who work in the specialist trade with everything they need for the calculation of efficiency labels from the very beginning.

Mandatory: manufacturer's product label

Product labels are attached to all oil/gas boilers, CHP units, heat pumps, water heaters and storage units. When the products are delivered, the corresponding product label and datasheet are also provided.

Fully prepared: composite label to be included in the offers in the future

For systems that consist of at least two components – for example a boiler and control system – you must inform your customers of the efficiency rating of the heating system in your offer. The easiest way to do this is to enclose the label provided by the Viessmann calculation program.

Labelled at the factory: Viessmann packages

With the Viessmann package solutions you do not have to invest any time or effort whatsoever to create the composite label, for example from the package price list. All of the corresponding labels and data sheets are calculated at the press of a button. As an all-round provider, Viessmann are able to offer this service because the entire system comes from a single source and can be calculated by Viessmann. For combinations of different products the calculation tool is available to you for calculating the label.

Everything made by Viessmann, everything with a label: diagram browser including composite label

In the Viessmann diagram browser there are around 290 diagrams available for complete system packages. For orders from the diagram browser, Viessmann will also provide the efficiency labels in the future – quite simply using the shopping basket function.

More efficient in a system:
Viessmann heating components are matched together down to the very last detail – for all fields of application, all energy carriers and any requirements you can therefore offer your customers a system with maximum energy efficiency.



Everything Viessmann. Everything fine.

Calculation tool for efficiency label

In addition to the ready-to-use labelling system for individual products and Viessmann complete packages, you also have at your disposal a simple and intuitive software package with which the energy efficiency of individually combined systems can be quickly and reliably calculated.

At Viessmann, labelling means as little time and expense as possible for the specialist trade. No matter how you order from Viessmann, all products are fully labelled. For heating packages from the package price list, Viessmann also provides you with composite labels and calculation certificates at the press of a button – without any input required on your part. You can simply retrieve both of the above as a PDF via the market partner portal. Viessmann provides an easy-to-use calculation tool for creating efficiency labels for individually compiled systems.

It could hardly be simpler: subsequent creating of efficiency labels

Offer, order, invoice or delivery note number: no matter what you currently have at hand, simply enter the corresponding number and you can calculate the composite labels without difficulty.

Exceptions to the rule:

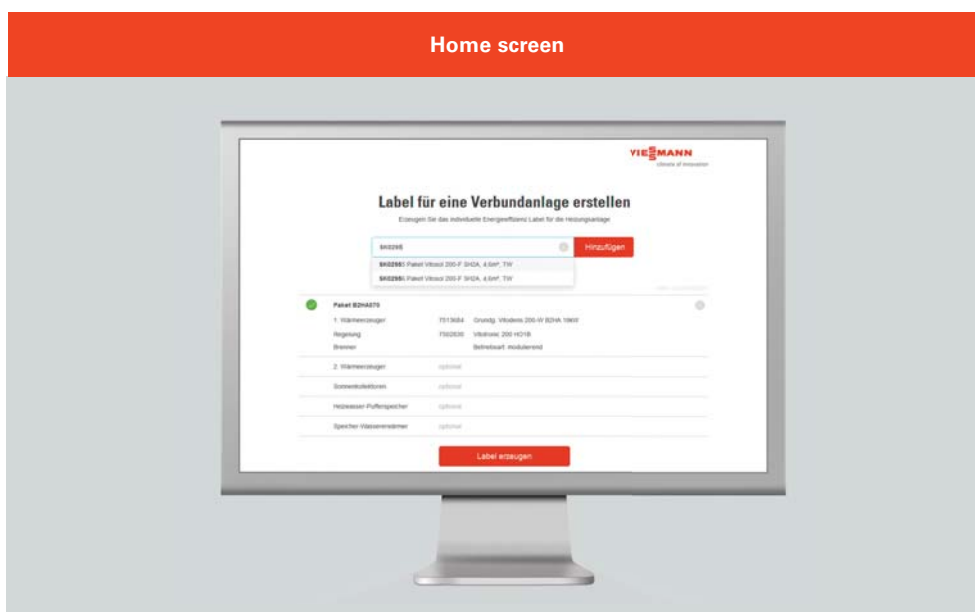
products without an efficiency label

Ventilation systems and biomass boilers for residential use do not require a label for the time being. Energy efficiency labelling for these products is expected to be required from 2016 or 2017 at the earliest. Items which will not require product labels are solar energy components such as collectors or solar pump groups, as solar thermal energy is only used in a composite system. For this reason, product datasheets are sufficient for calculating composite labels.

No worries:

sale of stored products without a label

Products which you have ordered, purchased and stored on your premises before September 26, 2015 and which therefore do not have an efficiency label may also be resold, installed and put into operation after this date.



Very easy to operate: with the Viessmann calculation tool you can quickly and easily create the corresponding composite labels for individually combined heating systems.

ErP Directive: Regulations, use and classification

Legal aspects

What is the timeline for the introduction of the new efficiency label?

The Directive was published on September 6, 2013 in the Official Journal of the EU and came into force on September 26, 2013. Two years later, from September 26, 2015 on, an efficiency label has to be enclosed with the devices and the energy efficiency class stated. Up to the deadline, the publication of information on the efficiency of the devices is still voluntary, but thereafter compulsory.

What must skilled craftsmen now bear in mind?

The specialist trade must ensure that as of September 26, 2015, all of the devices on display in the salesroom have a visible efficiency label. The information on energy efficiency also has to be included in advertising, offers and technical documents. It goes without saying that Viessmann will help you with this.

Which product groups does the new efficiency label apply to?

The efficiency label applies to heat generators, water heaters, storage units and complete systems, irrespective of the type of energy used (with the exception of biomass). This affects gas and oil heaters up to 70 kW, heat pumps, combined heat and power plant systems, storage units with a capacity of up to 500 litres.

Into which efficiency classes are the products divided up?

The devices are divided up into nine efficiency classes. Here A⁺⁺ is the best energy efficiency class. G in turn is used to indicate devices with significantly worse values. From 2019 the scale from A⁺⁺⁺ to D will apply. With water heaters the scale ranges from A to G, as of 2017 from A⁺ to F. Combined devices which are used for both room heating and hot water production will display both applications separately.



Where does the label have to be displayed?

The energy efficiency must be visible to the consumer in all forms of advertising for a product or system. This also applies of course to specific offers submitted by building owners or renovators.

What is a composite system?

According to EU Regulations, even a boiler with a control unit is a composite system. For the specialist heating firm there is therefore an obligation to provide a composite label for the end-customer for the entire system.

What are the differences between a product label and composite label?

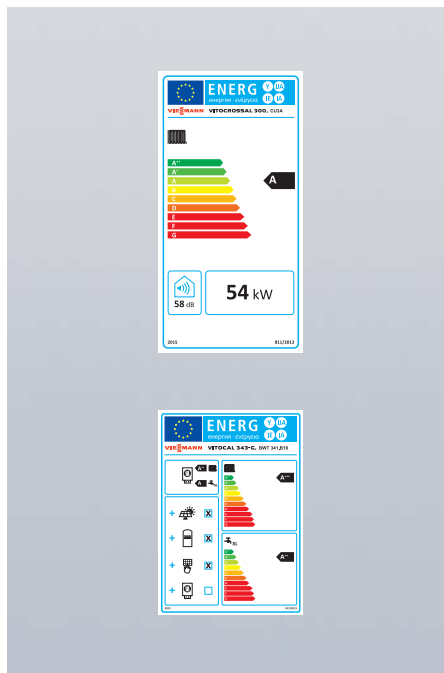
Product label

The manufacturer must produce a product label with the corresponding datasheet for every relevant system component. Viessmann sends the product label and datasheet together with the delivery.

Composite label

These labels are created specifically for a particular system. As Viessmann products are usually a heat generator including control system or a heat generator with control system and integrated storage unit, the appropriate efficiency label will be part of our offers in the future.

For systems assembled individually from Viessmann components there is an easy-to-operate calculation tool available. On the basis of product names or order numbers, the program calculates the energy efficiency and provides the composite label together with the calculation datasheet as a PDF.



Legal aspects

The efficiency label and its importance: For the overall market, for your customers and for you

Legal aspects

Does a label have to be created for spare parts?

No. Spare parts do not have to be labelled.

Do existing systems require a label?

No. Existing installations or systems are subject to continuation of the status quo. If the system is subsequently extended, e.g. a heater is supplemented by a solar energy system or a storage unit, a composite label does not have to be issued.

What happens to devices which are already in the warehouse before the deadline?

All devices and systems which you have in stock before September 26, 2015 or which are held by wholesalers are considered to have already been „placed on the market.“ This means that they are not affected by the ErP Directive and may be sold, installed and operated.

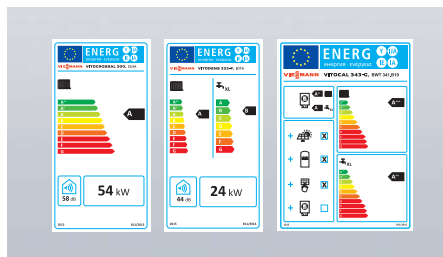
What effects does the new Eco-design Directive have on Viessmann products?

Devices whose energy efficiency levels are below 86 per cent may no longer be placed on the market after September 26, 2015. This relates above all to floor-standing condensing boilers such as Vitola, Vitorond, Vitogas and Vitoplex, as well as wall-mounted condensing units such as Vitopend. Wall-mounted gas-fired condensing boilers which depend on the air in the room (Vitopend) may still be sold after September 26, 2015, provided that they are connected in multistorey buildings to a multiple vacuum chimney.



Do the labels differ from manufacturer to manufacturer?

No. The graph and the contents of the labels are officially defined. There are no differences in the design because they are specified by law. The difference only results from the respective parameters and classifications.



Technology and market

Why have biomass boilers not been included?

For these systems there is still no basis for calculating their efficiency. It is likely that there will not be a mandatory energy efficiency label for biomass boilers until 2017.



Does controlled ventilation in a residential building have an effect on the label?

No. The effects of controlled ventilation are not currently included in the calculation. Ventilation systems in residential buildings are subject to the calculation regulations of the EU Commission from January 1, 2016.



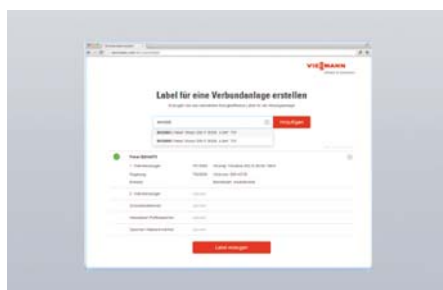
How can the efficiency class of a composite system be improved?

Both the individual product labels and the number of additional components have an effect on the energy efficiency of a composite system. Certain system components improve the ranking of a system through efficiency points. These include, for example, a control unit, solar thermal energy or a smart home system.



How can the most favourable rating for a composite system be determined?

The Viessmann calculation tool for efficiency labels offers a fast and easy way of testing various combinations of components in a composite system in order to be able to configure the system such that it achieves the best energy efficiency levels.





climate of innovation

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