

## Certification of heating, ventilation and air conditioning products



Greater market success through safety – for sure

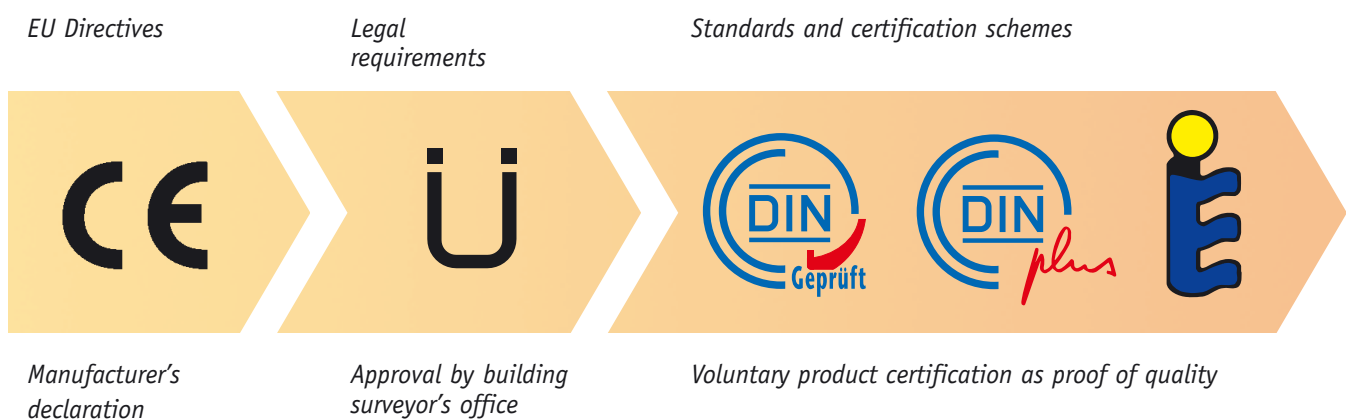
# Certification of heating, ventilation and air conditioning products

In addition to the free circulation of capital, persons and services, the idea of the Single European Market also includes products. However, the free circulation of products requires homogeneous regulations governing such products and their characteristics. To this end, appropriate EU Directives have been enacted, which establish the requirements for putting such products into circulation. Compliance with these minimum standards is documented by the **CE marking** as a kind of “technical passport”, and, in many cases, this is a mere declaration of the manufacturer.

Furthermore, national conformity certificates may also be relevant to the manufacturer with respect to the usage of a product. For products which, on the basis of the Construction Products Directive, are governed by the Construction Products Law and are therefore in the list of construction rules, for example, this is the “**Ü**” mark. The manufacturer himself labels his products with this mark on the basis of test reports of a testing laboratory recognised by the building authorities. A surveillance procedure is not always scheduled and there is no registration.

As a rule, manufacturers of high-quality products are not able to distinguish themselves from their competitors by means of this mark and users/consumers do not know what it means.

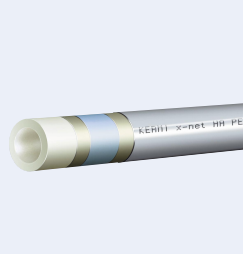
**Voluntary product certification** and using the certification marks **DIN-Geprüft**, **DINplus** and **KEYMARK** – which can be used as proof of quality – may offer an advantage. Certification helps specialist planners, plumbers, builder/owners and builders in the public and private sectors in the decision-making process.



**DIN-Geprüft** Certification mark for the tested and surveyed conformity of a product with the requirements established in DIN, DIN EN or DIN EN ISO standards and in certification programs.

**DINplus** Quality mark for the tested and surveyed conformity of a product with the standard and additional quality features that go beyond the standard, such as quality-related and environmentally relevant measures in production.

**KEYMARK** European Quality mark for the tested and surveyed (at least every two years) conformity of a product with the requirements established in the EN Standards and certification programs, including annual inspection of the quality assurance system.



## Basis of DIN CERTCO certification

**Standards** for heating, ventilation and air conditioning products make an important contribution to ensuring **product safety** and promoting **health, environment** and **consumer protection**. They establish the technical requirements for heating, ventilation and air conditioning products. For certification purposes, DIN CERTCO examines whether the products comply with the requirements of the respective standards, registers the data and, as part of a surveillance procedure, ensures that these requirements continue to be met in the long run.

### Advantages for the manufacturer

- Documents safety, quality, environmental compatibility and performance capability
- Added value compared with legal requirements
- Mark is well known in national and international markets
- Distinction from competitors
- Helps users/consumers in the decision-making process
- Proves compliance with tender requirements
- Opens up new markets
- Closeness to standards
- Publicity for the certificate owner (e.g. on the Internet)

### Benefits to the user/consumer

- Guaranteed safety due to regular testing and surveillance of the products
- Testing, surveillance and certification by independent, neutral and competent bodies
- Transparent certification procedures
- Registration with a unique registration number in order to avoid abuse of the mark

Certifying a product with DIN CERTCO means all these requirements are met. DIN CERTCO offers a form of certification that takes the special features of products into account: it offers a conformity certificate that covers precisely those factors deemed essential by the interested parties.

## Sample list of products

### Heat generators and accumulators

### Testing according to

|                                                                      |                                     |
|----------------------------------------------------------------------|-------------------------------------|
| Heating boilers with oil burners and Heating boilers for solid fuels | DIN EN 303, DIN 4702                |
| Oil burners                                                          | DIN EN 267, DIN 4787                |
| Solar collectors                                                     | DIN EN 12975                        |
| Thermal solar systems                                                | DIN EN 12976                        |
| Water heaters                                                        | DIN 4753                            |
| Monobloc oil burners                                                 | DIN EN 230                          |
| Safety shut-off devices                                              | DIN EN 264                          |
| Fan-assisted air heaters                                             | E DIN EN 13842, DIN 4794, DIN 30697 |
| Oil supply systems                                                   | DIN EN 12514                        |
| etc.                                                                 |                                     |

### Heat distribution and accessories

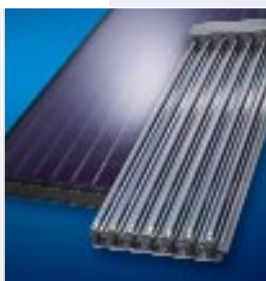
### Testing according to

|                                                                                     |                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|
| Plastic piping systems for warm water floor heating systems and radiator connecting | DIN 4721, DIN 4724<br>DIN 4726, DIN 16894<br>DIN 16833 |
| Heat cost allocators                                                                | DIN EN 834 / 835                                       |
| Thermostatic radiator valves                                                        | DIN EN 215                                             |
| Expansion vessels                                                                   | DIN 4807                                               |
| Temperature control and limiting devices                                            | DIN 3440                                               |
| Compensators                                                                        | DIN 4809                                               |
| Valves with a safety function for water and steam in heating systems                | DIN 32730                                              |
| etc.                                                                                |                                                        |

### Room heating

### Testing according to

|                                  |                                  |
|----------------------------------|----------------------------------|
| Radiators and convectors         | DIN EN 442<br>DIN 4703, DIN 4704 |
| Warm water floor heating systems | DIN EN 1264, DIN 4725            |
| Ceiling mounted radiant panels   | DIN V 4706, E DIN EN 14037       |
| Cooling surfaces for rooms       | DIN 4715                         |
| etc.                             |                                  |





## Elements of certification

Certification consists of **testing**, **assessment** and **surveillance** and is carried out by neutral bodies.

Certification that is matched to both needs and the market is achieved by way of customized **certification schemes** that are actively co-designed by the interested groups of the respective industries. The fact that these programs are published serves as further proof of the transparency of DIN certification.

In order to ensure strict separation of product testing and evaluation, DIN CERTCO cooperates with more than 120 accredited testing laboratories. All certificate owners are registered in a list open to the public, which can be downloaded free of charge from DIN CERTCO's homepage under "Zertifikatinhaber". Manufacturers and users – planners, architects, private and public builders – make use of this possibility.



CE-Kenn-Nr. 0196

## DIN CERTCO – 30 years of competence

DIN CERTCO is the certification body of **DIN Deutsches Institut für Normung e. V.** As an independent certification body, DIN CERTCO has been a competent partner for industry and commerce for more than 30 years.

Several forms of **accreditation** received – both for the statutory and the voluntary sectors – and the recognition of the EU Commission underscore our many years of experience and our competence. DIN certification marks enjoy an excellent reputation both within Germany and internationally.

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