

# Condensing Unit Certification Benefits

- » Public access to product passport for market surveillance authorities: supports mandatory publication of product information requirements and shows compliance with European Ecodesign regulation.
- » The certification programme allows potential customers to select products with certified performance and supports market transparency and level playing field.
- » Harmonized test procedure (certification process is well defined and supervised by a certain notified body) and declaration of performance for condensing units are according to the latest EN13215 standard.
- » Participants gain insights into condensing unit testing and design considerations related to components and refrigerants.

## Our Mission and Vision

**ASERCOM**, the Association of European Refrigeration Component Manufacturers, is the platform for dealing with scientific and technical topics and their challenges.

Our aim is to promote standards for performance rating, methods of testing and product safety. We focus on improved environmental protection, supporting the HVACR industry and its customers.

One of the strengths of **ASERCOM** is the cross-company cooperation of the member companies' delegates and

the resultant knowledge transfer. In five different areas of activities **ASERCOM** deals with the following key topics: certifications, standards, technologies, policies and regulations, and communications.

## Participants



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# Condensing Unit Certification Programme

Unique, transparent and reliable: **ASERCOM's** certification programme for condensing units is the viable response to ensure legal compliance at outstanding cost/benefit ratio. It is the answer to the Ecodesign condensing unit regulation and open to everyone.

- » Do you want to **certify your condensing units** according to Ecodesign Regulation (EU) 2015/1095?
- » Do you want to show that you **comply with this European regulation**?
- » Do you want to **inform your customers** of performance data and product sheets reliably?

Then the **ASERCOM** condensing unit certification programme is right for you!



**ASERCOM**  
Certification Programme

# The Answer to the Ecodesign Regulation

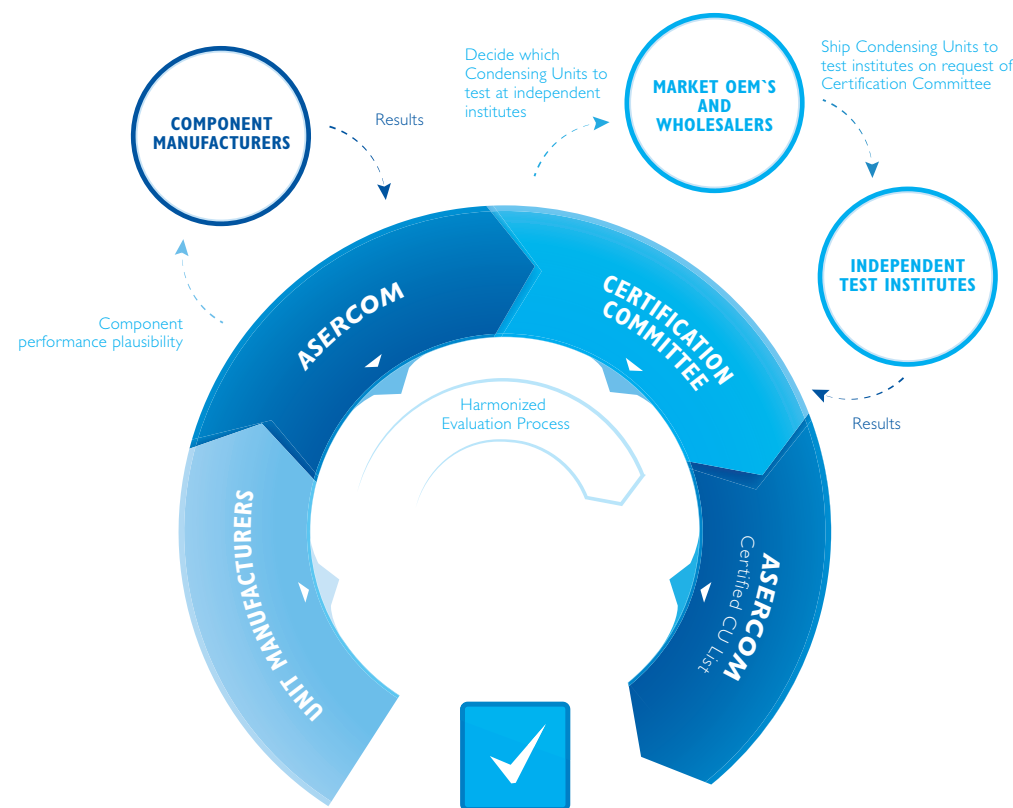
The Ecodesign regulation sets Minimum Efficiency Performance Standards (MEPS). Equipment using a refrigerant with GWP < 150 enjoy a 10 % reduction of MEPS. Larger size products' Seasonal Efficiency Performance

Ratio (SEPR) with fixed or staged capacity are degraded at part-load. Technical documentation has to follow specific product information requirements.

## Standardized, Voluntary and Autonomous: the Certification Process

The certification process is initiated via **ASERCOM**'s own software. The software uses the performance data of the individual components. The main components are

the compressor, the condenser block and the fan unit. The raw performance data is received from the component manufacturer.



» **ASERCOM** checks and evaluates the components and the calculated data in cooperation with the manufacturers.

» All relevant performance data of the condensing unit is calculated from this input.

» The certification committee decides on the plausibility of the submitted data sets and assigns the certifications.

» In addition, about 20 percent of the units are tested by independent test institutes.

» Participating units receive the **ASERCOM** certification programme label.

# ASERCOM Certification Software

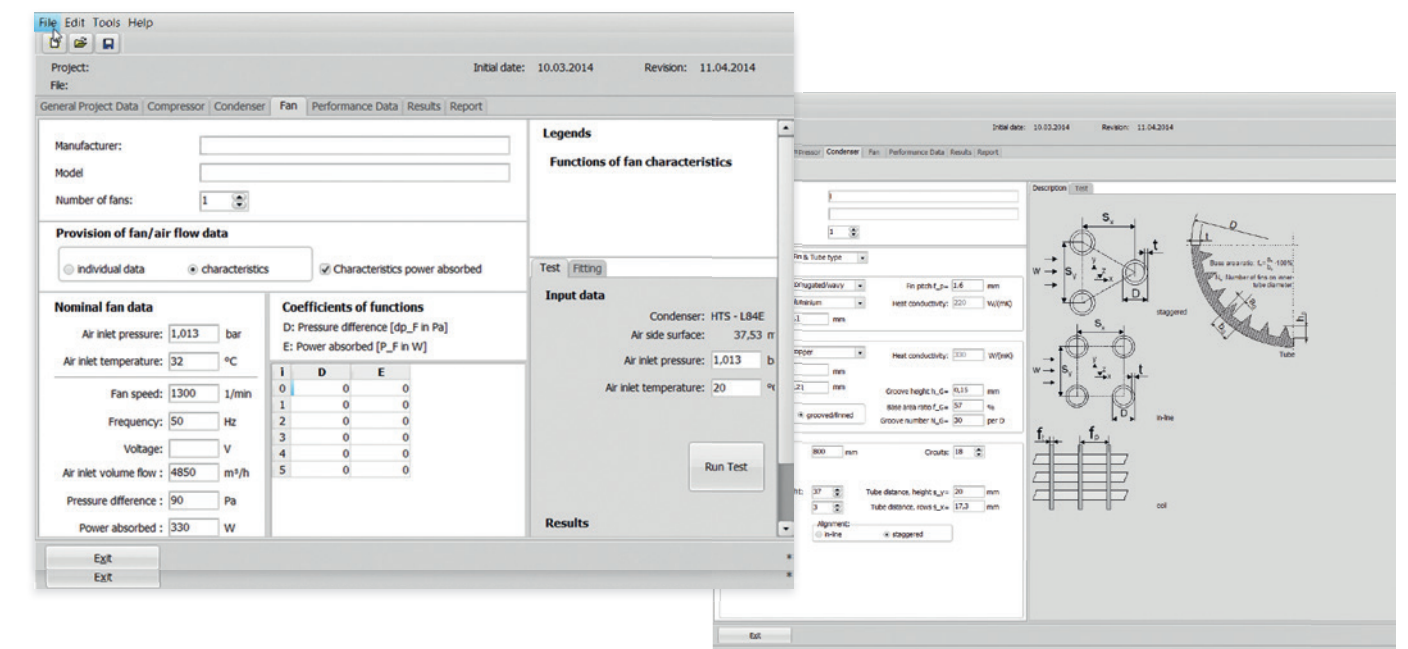
The certification software includes a database that stores the raw performance data from the components, to allow easy access and use for the participants.

**ASERCOM** maintains a refrigerant property database to avoid deviations in performance calculation due to different refrigerant manufacturers' data.

The association's database on the **ASERCOM** website is freely accessible to everyone. It assists participant's design engineering by allowing to pair and calculate dif-

ferent condenser designs, fans, compressors, and new refrigerants. The certification software also generates performance data for documentation and catalogues. It allows the plausibility check of existing condensing units' performance data.

It also prepares data for the certification process.



## Condensing Unit Database

Over 6.500 condensing units are currently included in our unique database.

The database offers specific search functionality for customers to look for different brands and find the right cooling capacity and refrigerant.

It provides easy access to the Ecodesign product information. This allows objectively comparable performance data of condensing units, subject to very narrow tolerances, to be provided.

The condensing unit database contains all products divided into three categories: "Listed" (the product has been submitted to **ASERCOM**), "Checked" (the Ecodesign data sheet and compliance with the Ecodesign regulation have been checked by **ASERCOM**), and "Certified" (the unit has been certified by the certification committee).