



**Eurovent 6/16 - 2017**

# **Recommended code of good practice for the interpretation of the EU Regulation 2016/2281 concerning fan coil units**

**First Edition**

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## Document history

This Eurovent Industry Recommendation / Code of Good Practice supersedes all of its previous editions, which automatically become obsolete with the publication of this document.

## Modifications

This Eurovent publication was modified as against previous editions in the following manner:

Modifications as against	Key changes
1 <sup>st</sup> edition	Interpretation of the EU Regulation 2016/2281 concerning fan coil units
2 <sup>nd</sup> edition	
3 <sup>rd</sup> edition	

## Preface

### In a nutshell

- **The EU Regulation 2016/2281 establishes the ecodesign requirements for the placing on the market and/or putting into service fan coil units (inter alia products)**
- **From 1 January 2018, the instruction manuals for installers and end-users, and free access websites of manufacturers, their authorised representatives and importers shall provide the information requirements defined in the Regulation Annex II table 13**
- **This Recommendation provides a sound interpretation of the Regulation Annex II point 5 and of the Annex II table 13**

## Authors

This document was published by the Eurovent Association and was prepared in a joint effort by participants of the Product Group 'Fan Coil Units' (PG-FCU), which represents a vast majority of all manufacturers of these products active on the EMEA market.

## Adoption

It has been approved and adopted through a formal voting procedure by Europe's national member associations from 20+ European countries, which ensures a wide-ranging representativeness based on democratic decision-making procedures. More information on these members can be found at [www.eurovent.eu](http://www.eurovent.eu)

## Important remarks

**The Eurovent Association does not grant any certification based on this document. All certification-related issues are managed by the association's independent subunit Eurovent Certita Certification in Paris. For more information, visit [www.eurovent-certification.com](http://www.eurovent-certification.com)**

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## Background

The EU Regulation 2016/2281 establishes the ecodesign requirements for the placing on the market and/or putting into service fan coil units (inter alia products).

The Regulation Article 3 states:

*Each ecodesign requirement shall apply in accordance with the following timetable:*

*From 1 January 2018:*

....

*(iv) fan coil units shall comply with the requirements set out in point (5) of Annex II.*

Furthermore, the Regulation Annex II point (5) of states:

*(a) From 1 January 2018, the instruction manuals for installers and end-users, and free access websites of manufacturers, their authorised representatives and importers shall provide the following product information:*

...

*5) for fan coil units, the information set out in Table 13 of this Annex, measured and calculated in accordance with Annex III;*

Table 13

### Information requirements for fan coil units

Information to identify the model(s) to which the information relates:

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	x,x	kW		Total electric power input	$P_{elec}$	x,xxx	kW
Cooling capacity (latent)	$P_{rated,c}$	x,x	kW		Sound power level (per speed setting, if applicable)	$L_{WA}$	x,x/etc.	dB
Heating capacity	$P_{rated,h}$	x,x	kW					
Contact details	Name and address of the manufacturer or of its authorised representative.							

## Product information requirements

### Data to be declared

For fan coil units mounting variable speed fans, the Regulation Annex II table 13 does not clearly define at which speed setting the cooling capacity (sensible and latent), the heating capacity, and the total electric power input must be declared.

In this respect this Recommendation aims to answer the following question:

Q. At which fan speed setting the cooling capacity (sensible and latent), the heating capacity, and the total electric power input must be declared?

A. In order to ensure the level playing field Eurovent and its members hold that the data must be declared per speed setting and in this respect the following tables show (respectively per non ducted and ducted units) the data that must be declared:

- Non-ducted units

Fan speed setting	Low	Medium	High	Unit
Cooling capacity (sensible)	x,x	x,x	x,x	[kW]
Cooling capacity (latent)	x,x	x,x	x,x	[kW]
Total Cooling capacity	x,x	x,x	x,x	[kW]
Heating capacity	x,x	x,x	x,x	[kW]
Total electric power input	x,xxx	x,xxx	x,xxx	[W]
Global Sound power level	x,x/etc	x,x/etc	x,x/etc	[dBA]

**Table 1: Non-ducted fan coil units: data to be declared**

- Ducted units

Fan speed setting	Low	Medium	High	Unit
Static pressure*	x	X	x	[Pa]
Cooling capacity (sensible)	x,x	x,x	x,x	[kW]
Cooling capacity (latent)	x,x	x,x	x,x	[kW]
Total Cooling capacity	x,x	x,x	x,x	[kW]
Heating capacity	x,x	x,x	x,x	[kW]
Total electric power input	x,xxx	x,xxx	x,xxx	[ W]
Sound power level (inlet+radiated)/(outlet)	{x,x}/{y,y}	{x,x}/{y,y}	{x,x}/{y,y}	[dBA]

\* as defined in the manufacturer's technical catalogue

**Table 2: Ducted fan coil units: data to be declared**

### Instruction manuals for installers and end-users

From 1 January 2018 instruction manuals for installers and end-users shall provide the product information defined in the above chapter.

This Recommendation aims to answer the following question:

Q. What should be intended for instruction manuals for installers and end-users?

A. Eurovent and its members hold that as instruction manuals for installers and end-users must be intended only the instructions manual. In this respect Technical and Commercial catalogues must not be intended as covered by the Regulation.

## About Eurovent

Eurovent is Europe's Industry Association for Indoor Climate (HVAC), Process Cooling, and Food Cold Chain Technologies. Its members from throughout Europe, the Middle East and Africa represent more than 1.000 companies, the majority small and medium-sized manufacturers. Based on objective and verifiable data, these account for a combined annual turnover of more than 30bn Euros, employing around 150.000 people within the association's geographic area. This makes Eurovent one of the largest cross-regional industry committees of its kind. The organisation's activities are based on highly valued democratic decision-making principles, ensuring a level-playing field for the entire industry independent from organisation sizes or membership fees.

Eurovent's roots date back to 1958. Over the years, the Brussels-based organisation has become a well-respected and known stakeholder that builds bridges between manufacturers it represents, associations, legislators and standardisation bodies on a national, regional and international level. While Eurovent strongly supports energy-efficient and sustainable technologies, it advocates a holistic approach that also integrates health, life and work quality as well as safety aspects. Eurovent holds in-depth relations with partner associations around the globe. It is a founding member of the ICARHMA network, supporter of REHVA, and contributor to various EU and UN initiatives.

## Our Members and 'Affiliated Manufacturers'



Our Members are national associations from Europe, the Middle East and Africa that are representing manufacturers in the area of Indoor Climate, Process Cooling, and Food Cold Chain technologies.



The more than 1000 companies within their networks (Eurovent 'Affiliated Manufacturers') can directly participate in Eurovent activities in a democratic and transparent manner.

For in-depth information and a list of all our members, visit [www.eurovent.eu](http://www.eurovent.eu)

## Democratic decision-making



**DEMOCRATIC DECISION-MAKING**

 Activities rest upon democratic decision-making procedures between members and their representatives

 'Umbrella association' structure ensures broad and truly credible representation of our industry vis-à-vis policy makers

 Voting rights independent from amount of membership contributions or company sizes

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