



Eurovent 6/15 - 2017

Recommended code of good practice for the interpretation of the Regulation (EU) 1253 /2014 concerning Fan Coil Units

First Edition

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Preface

In a nutshell

With this code of good practice, Eurovent and its members recommend that Fan Coil Units shall be considered as not covered by the Commission Regulation (EU) No 1253/2014 and they shall be considered as covered only by the Commission Regulation (EU) 2016/2281.

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 the end of this document.

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.

Contents

Eurovent 6/15 - 2017	1
Preface	2
In a nutshell	2
Authors	2
Adoption	2
Contents	3
1. Background	4
1.1 EN 1397:2015	4
1.2 EN 16583:2015	4
1.3 Commission Regulation (EU) 2016/2281	4
2. Resources	4
2.1 Basic definitions: EN 1397:2015	4
2.2 Frequently Asked Questions to Commission Regulation (EU) No 1253/2014: Question on article 2 - Definitions	4
2.3 Basic definitions: Commission Regulation (EU) No 1253/2014	4
2.4 Basic definitions: Commission Regulation (EU) 2016/2281	5
3. Conclusion	5
About Eurovent	6
We are Europe's Industry Association for Indoor Climate, Process Cooling, and Food Cold Chain Technologies – thinking beyond 'HVAC&R'	6
Our Members and 'Affiliated Manufacturers'	6

1. Background

This Eurovent Recommendation / Code of Good Practice concerns Fan Coil Units placed on the EU market and/or put into service.

The following major EN standards and Commission Regulations (EU) apply to Fan Coil Units:

1.1 EN 1397:2015

EN 1397 provides a method for the determination of the thermal performance of fan coil units in standard conditions, for the use with hot or chilled water or water mixtures.

1.2 EN 16583:2015

This European Standard provides methods for the determination of the acoustical performance of fan coil units, defining standard working conditions and installation.

1.3 Commission Regulation (EU) 2016/2281

This Regulation establishes Ecodesign requirements for the placing on the market and/or putting into service of (inter alia) Fan Coil Units.

The main reason of this Recommendation / Code of Good Practice is that Fan Coil Units manufacturers are frequently asked by their customers about the interpretation of Commission Regulation (EU) No 1253/2014.

Eurovent and its members hold that a sound interpretation is necessary in order to guarantee a level-playing field. For this to happen, the following question was answered:

Are Fan Coil Units covered by the Commission Regulation (EU) No 1253/2014 or are they covered only by the Commission Regulation (EU) 2016/2281?

2. Resources

2.1 Basic definitions: EN 1397:2015

EN 1397:2015 defines Fan Coil Unit as a

'Factory-made single assembly which provide one or more of the functions of forced circulation of air, heating, cooling, dehumidification and filtering of air, but which does not include the source of heating or cooling.'

2.2 Frequently Asked Questions to Commission Regulation (EU) No 1253/2014: Question on article 2 - Definitions

The Commission FAQ states at point 11 'Are products designed for 100% recirculation considered ventilation units?':

'If the product is not designed for replacing utilised air with outdoor air, it is not a ventilation unit...'

2.3 Basic definitions: Commission Regulation (EU) No 1253/2014

The Commission Regulation (EU) No 1253/2014 at its first paragraph point (5) assesses:

'...The exemptions also clarify that multifunctional units which predominantly heat or cool...are excluded.'

It must be stressed that the Fan Coil Units' main function is to provide forced circulation of air and to heat, cool, dehumidify, and filter this air. These units are not designed for replacing utilised air with outdoor air. Furthermore, the airflow rate of the supplied fresh air is less than 10% of the total declared recirculated air flowrate.

When putting EN 1397 scope in relation with the Frequently Asked Questions to Commission Regulation (EU) No 1253/2014, and with the exclusion of the Commission Regulation (EU) No 1253/2014, the only conclusion is that Fan Coil Units do not fall under the scope of the Commission Regulation (EU) No 1253/2014.

2.4 Basic definitions: Commission Regulation (EU) 2016/2281

Art. 1 of Commission Regulation (EU) 2016/2281 states:

'This Regulation establishes Ecodesign requirements for the placing on the market and/or putting into service of:

(a) air heating products with a rated heating capacity not exceeding 1 MW;

(b) cooling products and high temperature process chillers with a rated cooling capacity not exceeding 2 MW;

(c) fan coil units.'

Furthermore, Art. 2, point (9) defines Fan Coil Units as:

'fan coil unit means a device that provides forced circulation of indoor air, for the purpose of one or more of heating, cooling, dehumidification and filtering of indoor air, for the thermal comfort of human being.'

The above definition is fully in line with EN 1397, and in the opinion of Eurovent and its members, this is a further evidence that the Fan Coil Units are not covered by Commission Regulation (EU) No 1253/2014, but only by Commission Regulation (EU) 2016/2281.

3. Conclusion

Based on the elaborations above, Eurovent and its members strongly recommend that **Fan Coil Units shall be considered as not covered by Commission Regulation (EU) No 1253/2014 and they shall be considered as covered only by Commission Regulation (EU) 2016/2281.**

About Eurovent

We are Europe's Industry Association for Indoor Climate, Process Cooling, and Food Cold Chain Technologies – thinking beyond 'HVAC&R'

Eurovent is Europe's Industry Association for Indoor Climate, 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.

