

December 1996

RECOMMENDATION
for the
APPLICATION of RELEVANT DIRECTIVES
to AIR HANDLING UNITS

1. The purpose of this Recommendation is to be used as a Guideline by manufacturers of Air Handling Units.
2. It should be remembered and kept in mind that the essential purpose of Directives is to achieve a common level of safety and ensure free movement of goods between member states and not to certify the high quality of the product or to guarantee performances.
3. The CE-Marking, which assumes the compliance with the relevant Directives, is not awarded by a test or inspection body; it is fixed on the product by the manufacturer who simply declares this compliance.

E U R O V E N T / C E C O M A F

**EUROPEAN COMMITTEE OF
AIR HANDLING, AIR CONDITIONING AND REFRIGERATION
EQUIPMENT MANUFACTURERS**

RELEVANT DIRECTIVES

Following Directives are relevant for Air Handling Units:

Directive implementing	Designation	Date of mandatory
Machinery safety	MD 89/392	1 January 1995
Electromagnetic compatibility	EMC 89/336	1 January 1996
Low voltage	LVD 73/23; 93/68	1 January 1997

RECOMMENDATION

Air Handling Units must comply with all relevant directives but only the Machinery Safety Directive will be considered in the present Recommendation because its application may be done in different way by manufacturers; a common basis would be useful.

1. Introduction

The Machinery Safety Directive stipulates minimum requirements concerning the safety of machines, thus enabling the free movement of goods within Europe to be valid for machines.

2. Scope of Application

A machine as defined in the Machinery Safety Directive is, among other things, an aggregate of interconnected parts or devices at least one of which moves or an aggregate of machines arranged and operated in such a way so that they function together as a whole.

It is therefore obvious that Air Handling Units are machines in accordance with the Machinery Safety Directive.

3. Conformity Assessment

The conformity of an Air Handling Unit with the Machinery Safety Directive is guaranteed by the manufacturer of the unit. There are two different cases:

- ◆ Air Handling Units ready for operation, i.e. units that are completely mounted, with motor and control, are provided with a CE Mark. This also applies to Air Handling Units that do not require any control. These units are delivered together with a **Declaration of conformity**.
- ◆ Air Handling Units not ready for operation, e.g. units without control, without motor, or a disassembled unit, are not provided with a CE mark. The units are delivered together with a **Declaration of incorporation**.

4. Measures to be taken by the Manufacturer

The Air Handling Unit manufacturer must consider all the requirements of the Machinery Safety Directive:

- ◆ During the design and construction of Air Handling Units, the basic safety and hygiene requirements according to attachment I of the Machinery Safety Directive must be complied with. The European standardisation organisations CEN and CENELEC have been instructed by the EC Commission to define and stipulate these requirements in so-called harmonised standards. As long as there are no harmonised standards for individual products, national standards and regulations are applicable.
- ◆ Using a sample of the respective unit, the manufacturer must demonstrate the risks it involves and take the appropriate remedial measures. A report of this risk analysis must be incorporated in the technical documentation.
- ◆ For each product the manufacturer shall prepare and keep available within a period of time commensurate with its importance for inspection the complete technical file showing the proofs of compliance with requirements of the Directive:
 - the general drawing of the unit, including control circuit diagrams
 - drawings, calculation sheets, test results etc., proving that the basic safety and hygienic requirements of the Machinery Safety Directive are complied with
 - a list showing the basic requirements of the Machinery Safety Directive, the standards applied and the technical specifications applied
 - a description of the measures chosen to prevent the risks involved with the unit
 - reports and/or certificates issued by qualified laboratories
 - a copy of the operating instructions

The technical files should not be given to the customers; they are intended to be used by a National Competent Body if the product was being challenged.

- ◆ The manufacturer must deliver the Air Handling Unit together with instructions for installation and operation in the language of the country where the unit is to be used, comprising:
 - details concerning transport and storage (weight, lifting devices, transport safety device, storing properties and conditions)
 - product description (name and address of the manufacturer, technical data and properties, protective devices, ambient conditions, use according to the rules, sound data).
- ◆ Units ready for operation must be furnished with the CE Mark.
- ◆ The **Declaration of conformity** or the **Declaration of incorporation** by the manufacturer must be supplied together with the unit.

5. Conformity Assessment at Site

If Air Handling Units not ready for operation are assembled to form plants ready for operation (e.g. at site) the person in charge of this assembly process must carry out the conformity assessment, issue the **Declaration of conformity** and apply the CE Mark. In the case of Air Handling Units, these measures can be taken by the layout engineer, the general contractor or the user.

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