

June 1997

RECOMMENDATION
concerning
APPLICATION OF RELEVANT DIRECTIVES
TO FANS

- 1 - The purpose of this Recommendation is to be used as a Guideline by manufacturers of Fans.
- 2 - It should be remembered and kept in mind that the essential purpose of European 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.

EUROVENT/CECOMAF

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

RELEVANT DIRECTIVES

Following Directives are relevant for Fans :

Directive	Designation	Date of mandatory implementing
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
Construction products	89/106	Not yet applicable

RECOMMENDATION

◆ SELECTION OF DIRECTIVES

Fans must comply with all relevant directives. However the responsibility for identifying these relevant directives and for declaring conformity remains with :

- the manufacturer, if manufactured within the community
- the first importer into the community, if manufactured outside of the community.

1. All fans incorporating electrical/electronic components will need to comply with the requirements of the EMC Directive.
2. All fans incorporating electrical/electronic components within the range 50V to 1000VAC or a 75V-1500VDC will need to comply with the requirements of the LVD.
3. Some fans may additionally need to comply with the requirements of the MD.
4. When the risk is mainly of electrical origine (for instance household fans) it is necessary to comply with the LVD and EMC but not necessarily the MD.
5. Large fans or belt driven fans shall comply with the LVD, EMC and MD.
6. Medium size fans may need to comply with the MD. This decision may influence other products by the manufacturers.

As a guideline, it is recommended that the MD should always be considered relevant where the rated fan power is in excess of that normally available in a household environment, typically 3000 W, 250 V, single phase.

The MD may not be always relevant and the essential requirements will be met by the LVD and EMC only where the rated fan power is equal to or less than that normally available in a household environment, typically 3000 W. However it should be reminded that the decision is entirely under the manufacturer responsibility.

◆ MANUFACTURERS REQUIREMENTS

The manufacturer should carry out a risk analyse based upon the essential requirements contained in the relevant directives. In many cases, this can be achieved through compliance with harmonised standards.

	LVD	EMD	MD	CPD
Household or similar	HD 280	In compliance with the relevant standards		Yet to be determined
Machinery	EN60204-1		EN292-1	

1. Instructions provided with the product shall be considered as part of the product.
2. A manufacturer may decide to submit the product for third party testing. This will then provide verification from a test authority that the product is in compliance with the relevant directive. It is recommended that « Notified » authorities are used.

If a product is submitted to a CENELEC notified body in order to obtain a safety approved mark such as BEAB, VDE, KEMA, etc... this will then indicate compliance with the LVD.

3. The EMC Directive requires that the product should not emit radiation and that it should also be immune from radiation. It is strongly recommended that a third party be involved in indicating conformity with the requirements. These results can then be used as a basis for a self-declaration for other similar products.
4. The manufacturer is required to maintain a technical file supporting the claim that the product is produced in compliance with all relevant directives. This need not be a separate file ; it is sufficient to produce and retain a statutory declaration of conformity and refer to other existing files that contain user instructions, drawings, test reports, etc...
5. The manufacturer is required, having satisfied himself that the product meets the requirements of all relevant directives, to apply the CE Mark.
6. Where conformity is claimed with the MD a Declaration of conformity shall accompany each product.

◆ SPECIALIST FANS

The following is a list of fans that are considered specialist fans where additional Directives may be relevant :

- Hot Gas Fan
- Wet Gas Fan
- Conveying Fan
- Non-clogging Fan
- Abrasion-Resisting Fan
- Corrosion-Resisting Fan
- Explosion-Proof Fan
- Fans for potentially explosives atmospheres
- Fans for operation at large pressure differences
- Shockproof Fan

◆ LIST OF THE MEMBER ASSOCIATIONS

BELGIUM

FABRIMETAL

80 Bd Reyerslaan -
B-1030 BRUXELLES
Tel. 32/2/7067985 - Fax : 32/2/7067966
E-mail: info@fabrimetal.be

GERMANY

FG ALT im VDMA

Postfach 71 08 64 - D-60498 FRANKFURT AM MAIN
Tel. 49/69/6603 1227 - Fax : 9/69/6603 1218
E-mail: ALT@VDMA.org

SPAIN

AFEC

Francisco Silvela, 69-1°C - E-28028 MADRID
Tel. 34/9/1/4027383 - Fax : 34/9/1/4017927

FINLAND

AFMAHE

Etaläranta 10 - FIN-00130 HELSINKI
Tel. 358/9/19231 - Fax : 358/9/624462

FINLAND

FREA

P.O. Box 118
FIN-00811 HELSINKI
Tel : 358/9/759 11 66 - Fax : 358/9/755 72 46

FRANCE

UNICLIMA

F-92038 PARIS LA DEFENSE CEDEX
Tel : 33/1/47176292 - Fax : 33/1/47176427

GREAT BRITAIN

FETA (HEVAC and BRA)

Henley Road – Medmenham
MARLOW BUCKS SL7 2ER
Tel : 44/1491/578674 - Fax : 44/1491/575024
E-mail: info@feta.co.uk

ITALY

ANIMA - CO.AER

Via Battistotti Sassi, 11 - I-20133 MILANO
Tel : 39/02/73971 - Fax : 39/02/7397316

NETHERLANDS

NKI

Postbus 190 - NL-2700 AD ZOETERMEER
Tel. 31/79/353 12 59 - Fax : 31/79/353 11 15
E-mail: nki@fme.nl

NETHERLANDS

VLA

Postbus 190 - NL-2700 AD ZOETERMEER
Tel. 31/79/353 11 00 - Fax : 31/79/353 13 65
E-mail: vla@fme.nl

NORWAY

NVEF

Postboks 6697, St Olavs Plass –
0129 OSLO
Tel. 47/22202790 - Fax : 47/22202875

SWEDEN

KTG

P.O. Box 5510 - S-114 85 STOCKHOLM
Tel. 46/8/782 08 00 - Fax : 46/8/660 33 78

SWEDEN

SWEDVENT

P.O. Box 175 37 - S-118 91 STOCKHOLM
Tel : 46/8/762 75 00 - Fax : 46/8/668 11 80
E-mail: bo.gostoring@isab.postnet.se

TURKEY

ISKID

FORM A.S.

Ruhi Bagdadi Sok No:1 Balmuncu
TR-80700 ISTANBUL
Tel : 90/212 288 15 70 - Fax : 90/212 272 56 52
E-mail: formas@superonline.com

REC 03

For more information contact

Sule BECIRSPAHIC
Eurovent/Cecomaf Technical Secretariat
15 rue Montorgueil
75001 PARIS
Tel 33 1 40 26 00 85
Fax 33 1 40 13 75 44