

Bruksanvisning Directions for use

CV, KV, RS, LPK, RK, RKB, RKBI
IRE, IFK, IFA, TKK, TKS, TKC, RF, RB, DF, CAU



EC DECLARATION OF CONFORMITY

We hereby confirm that our products comply with the requirements in the following EU-directives and harmonised standards.

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Products: Duct fans RK, RKB, RKBI, LPK, IRE Wall fans CV, KV, RS Roof fans TKK, TKS, TKC
Centrifugal fans RF, RB, DF Kitchen fans IFK Attic fans IFA, CAU

Machinery Directive (MD) 98/37/EEC as defined in appendix 2A

Harmonised standards:

- EN 292-1 " Safety of machinery - Basic concepts, general principles for design
- Part 1: Basic terminology, methodology"
- EN292-2 " Safety of machinery - Basic concepts, general principles for design
- Part 2: Technical principles and specifications"
- EN 294 " Safety of machinery - Safety distances to prevent danger zones being reached by the upper limbs"

Installation must be done in accordance with the attached "Directions for use".

Low Voltage Directive (LVD) 73/23/EEC and changes 93/68/EEC

Harmonised standards:

- EN 60 335-1 " Safety of household and similar electrical appliances - Part 1: General requirements"
- EN 60 335-2-80 " Safety of household and similar electrical appliances - Part 2: Particular requirements for fans"

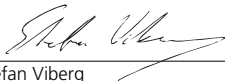
EN 60 204-1 " Safety of machinery - Electrical equipment of machines - Part 1: General requirements" is valid for fans including motor with automatic thermo protector.

Directive for Electromagnetic Compatibility (EMC) 89/336/EEC and changes 92/31/EEC and 93/68/EEC

Harmonised standards:

- EN 50 081-1 " Electromagnetic compatibility - Generic emission standard
- Part 1: Residential, commercial and light industry"
- EN 50 081-2 " Electromagnetic compatibility - Generic emission standard - Part 2: Industrial environment"
- EN 50 082-1 " Electromagnetic compatibility - Generic immunity standard
- Part 1: Residential, commercial and light industry"
- EN 50 082-2 " Electromagnetic compatibility
- Generic immunity standard - Part 2: Industrial environment"

Avesta 2005-08-31


Stefan Viberg
Quality Manager

DECLARATION OF INCORPORATION

(as defined by the Machinery Directive 98/37/EEC, appendix 2B for built-in)

Products: Non-connected motors and RF, RB and DF destined for built-in installation.

The product must not be put into operation until the machinery, into which it is incorporated, has been declared to be in conformity with the Machinery Directive 98/37/EEC.

The product fulfill the requirements in the EU-directive for EMC, see EC Declaration of conformity.

Avesta 2004-04-13


Stefan Viberg
Quality Manager

This directions for use contains following products:
CV, KV, RS, LPK, RK, RKB, RKBI,
IRE, IFK, IFA, TKK, TKS, TKC, RF, RB, DF and CAU

DESCRIPTION

- The fan is used for transportation of “clean” air, meaning not intended for fire-dangerous substances, explosives, grinding dust, soot, etc.
- The fan is equipped with an asynchronous external rotor induction motor with maintenance-free sealed ball-bearings.
- The capacitor has finite lifetime and should be exchanged after 45.000 operation hours (about 5 years of operation) to secure maximum function. Defective capacitor can cause damage.
- To achieve maximum life time for installations in damp or cold environments, the fan should be operating continuously.
- The fan can be installed outside or in damp environments. Make sure that the fan-house is equipped with drainage.
- The fan is intended to be used with the voltage and frequency that’s stated on the label on the fan.
- The fan can be installed in any position.

INSTALLATION

- The fan must be installed according to the air direction label on the fan.
- The fan must be connected to duct or equipped with a safety grille.
- The fan should be installed in a safe way and make sure that no foreign objects are left behind.
- The fan should be installed in a way that makes service and maintenance easy. N.B.! Consider the weight and size of the fan.
- The fan should be installed in a way that vibrations not can be transused to duct or building. To provide this, use for example a flange.
- To regulate the speed, a transformer, a speed controller or a frequency converter can be connected.
- A wiring diagram is applied on the inside of the junction box or separately enclosed.
- The fan is installed and connected electrically in the right way grounded and with motor protection.
- The motor protection must always be used, see wiring diagram.
- Electrical installations must be made by an authorized electrician.
- Electrical installations must be connected to a locally situated tension free switcher or by a lockable head switcher.

OPERATION

Before starting, make sure that:

- the current does not exceed more than +5% of what is stated on the label.
- the connecting voltage is in between +6% to -10% of the rated voltage.
- no noise appears when starting the fan.
- the rotation direction at 3-phase motors are according to the label.

HOW TO HANDLE

- The fan must be transported in its packing until installation. This prevents transport damages, scratches and the fan from getting dirty.
- Attention, look out for sharp edges and corners.

MAINTENANCE

- Before service, maintenance or repair begins, the fan must be tension free and the impeller must have stopped.
- Consider the weight of the fan when removing or opening larger fans to avoid jamming and contusions.
- The fan must be cleaned when needed, at least once per year to maintain the capacity and to avoid unbalance which may cause unnecessary damages on the bearings.
- The fan bearings are maintenance-free and should be renewed only when necessary.
- When cleaning the fan, high-pressure cleaning or strong dissolvent must not be used.
- Cleaning should be done without dislodging or damaging the impeller.
- Make sure that there is no noise from the fan.

FAULT DETECTION

1. Make sure that there is tension to the fan.
2. Cut the tension and verify that the impeller is not blocked.
3. Check the thermo-contact/motor protector. If it is disconnected the cause of overheating must be taken care of, not to be repeated. To restore the manual thermo-protector the tension will be cut for a couple of minutes. Larger motors than 1,6 A may have manual resetting on the motor. If it has auto-matic thermo-protector the resetting will be done automatically when the motor is cold.
4. Make sure that the capacitor is connected, (single phase only) according to the wiring diagram.
5. If the fan still does not work, the first thing to do is to change the capacitor.
6. If nothing of this works, contact your fan supplier.
7. If the fan is returned to the supplier, it must be cleaned, the motor cable undamaged and a detailed nonconformity report enclosed..

WARRANTY

The warranty is only valid under condition that the fan is used according to this "Directions for use".

Fresh air from

ÖSTBERG
THE FAN COMPANY 

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