

Bruksanvisning Directions for use

CK 100, CK 125, CK 150, CK 160, CK 200, CK 250, CK 315



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 CK 100, CK 125, CK 150, CK 160, CK 200, CK 250 and CK 315

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

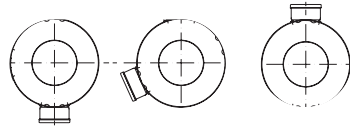
ENGLISH

This directions for use contains following products:
CK 100, CK 125, CK 150, CK 160, CK 200, CK 250 and CK 315



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 hours of operation (about 5 years) 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 other damp environments. Make sure that the fan-house is equipped with drainage.
- All fans are as standard, single phase 230V, 50 Hz and 220V, 60 Hz. Other voltages/frequencies on request.
- The fan can be installed in any position.

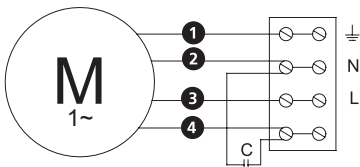


INSTALLATION

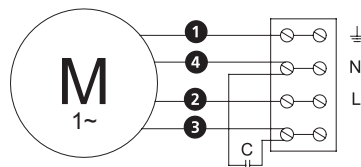
- The fan must be installed according to the air direction label on the fan.
- The fan must be connected to duct or equipped with a safety grille.
- The fan should be installed in a safe way and make sure that no foreign objects are left behind.
- The fan should be installed in a way that makes service and maintenance easy.
- The fan should be installed in a way that vibrations can not be transused to duct or building. To provide this, use for example a duct clamp.
- To regulate the speed, a transformer, a triac or a frequency converter can be connected.
- A wiring diagram is applied on the inside of the junction box or separately enclosed.
- The fan must be installed and connected electrically in the correct way grounded.
- 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.

WIRING DIAGRAMS

4040001 Single phase



4040002 Single phase



- (M) = Fan Motor
- 1 = Yellow/Green
 - 2 = Black
 - 3 = Blue
 - 4 = Brown

OPERATION

When starting, make sure that:

- the connecting voltage is in between +6% to -10% of the rated voltage.
- no noise appears when starting the fan.

HOW TO HANDLE

- The fan must be transported in its packing until installation. This prevents transport damages, scratches and the fan from getting dirty.

MAINTENANCE

- Before service, maintenance or repair begins, the fan must be tension free and the impeller must have stopped.
- 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 renew 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".

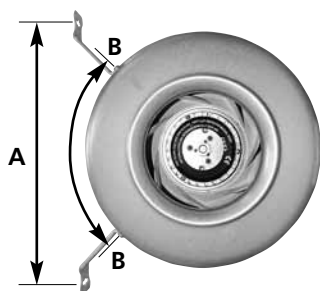
ASSEMBLY INSTRUCTION

Mounting bracket kit for easy suspension of CK contents:

1. 2 pcs mounting bracket
2. 4 pcs screws



The brackets can be mounted horizontal everywhere around the joint of the fan. For right distance between the brackets, see the dimension table (B) and the distance from the joint to screw-hole (C).



Fan size	A +2	B +2	C +1
100	277	185	18
125	277	185	15
150 B	299	210	18
150 C	323	248	17
160 B	299	210	18
160 C	323	248	17
200	323	248	18
250	323	248	18
315	350	275	17



1. Mark the measure of **B** on the fan for the placement of the mounting brackets.



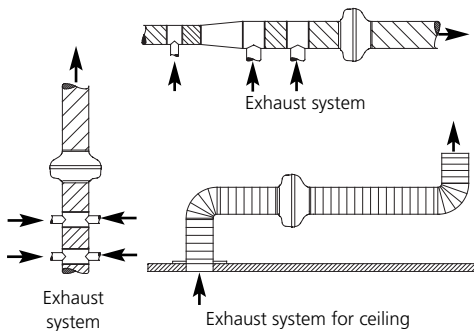
2. Mark the measure of **C**. Start from the joint of the fan.



3. Fasten the mounting brackets with the self-drilling screws.

INSTALLATION INSTRUCTIONS

Installation instructions for exhaust systems for duct fan,



1. Mark the measure of **A** on the wall or roof and then fasten the fan.

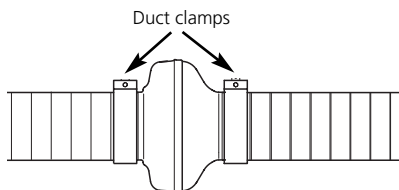


2. Put together the ducts and the fan.

Installation with duct clamps for duct fan CK.

Duct clamp, type MK is made of pre-galvanized steel and is rubber-lined to seal connection and absorb vibrations. The clamp allows the fan to be easily removed for inspection and cleaning.

Available in sizes: Ø 80, 100, 125, 150, 160, 200, 250, 315, 355, 400, 500 and 630 mm.



3. Strap the duct clamps on each side of the fan with the screws.

Fresh air from

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