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Operation, installation and maintenance instructions

Radial Fans Type MPA

The manual should be available for the operating personnel all the time. The instructions should be read carefully before installation and operation of the blower. If strict notice is taken of these instructions, the blowers will operate faultlessly for years.

With reservation for alteration. If in doubt, get in touch with the manufacturer.

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A Technical data

Following data is for the fan in its basic form, however, delivered fan can differ from the basic form. See the mark sign of the text "Special execution". Blowers type MPA have casing of cast aluminium, impeller of paddle type of cast aluminium. Fan MPA is suitable for dust and material conveying.

The temperature of the conveyed medium may not exceed 80(C. It is not permitted to use the fan in surroundings where the temperature exceeds 40(C or goes below -25(C. Conveying of explosive gases is not permitted. It is not permitted to rebuild or in any other way modify the fan. Special features that can be used in other surroundings than above can be offered on request and clarification with the manufacturer.

When connecting, maintenance or ordering of spare parts, pay attention to data on the mark sign in first instance.

Special executions

Temperature barrier, EEx motors, housing and impeller in other materials, can be delivered on request and after clarification with the manufacturer.

B Warranty

Warranty is valid in accordance with general conditions and only if these instructions are strictly adhered to.

C Safety

Following safety instructions must be carefully followed with regard to preventing injury or damage to surrounding equipment and to the fan itself.

1 Suction

Warning1

Centrifugal fans have high suction power. Objects, clothing and hair can easily be sucked in to the fan and cause injury. Make sure that there are no persons nearby the inlet side when the fan operates. Protection guard may be removed only if it is replaced with a boss or pipe of at least 1 m. The fan must never operate without a wire guard because the rotating impeller can cause serious injury.

2 Discharge side

Warning1

There is a powerful stream of air from the discharge side. Foreign bodies that might have been sucked in to the fan can be thrown out at high speed and cause injury. Never put the hand directly at the discharge opening.

3 Temperature

Warning1

When the fan operates the fan housing takes the temperature of the conveyed media. If that temperature exceeds 50(C) the fan must be protected from direct contact to prevent burn injury.

4 Electrical connection

Warning!

Electrical connection must be made by skilled labour only. The drive motor should be protected with an overload switch.

5 Permitted applications

MPA-fans are not to be used for conveying aggressive, toxic or air with high humidity or gas or explosive air-gas mix.

6 Sound level

The sound pressure level is not the same over the fans whole range. In some cases it is necessary to use a silencer. We recommend the user to check the sound pressure level.

D Installation

1 Transportation

Check all parts for damage during transportation and that the impeller runs free inside the housing. The blowers are to be installed in weather-protected places and are not to be stored outdoors unprotected. Mount holding hook carefully, and do only use lifting arrangements with sufficient strenght.

2 Arrangements and assembling

Mount the fan horizontally or vertically in a weather-protected place. Make sure that the fan is protected from vibrations and shock. Supply open inlet and discharge with guards according to valid regulations. Make sure that the drive motor is supplied with sufficient ventilation. The permitted maximum temperature of surroundings is 40(C).

3 Electrical connection

Attention!

All installation work should be carried out by a suitably qualified person(s); and in accordance with all applicable standards and regulations pertaining to the country of installation.

Connect the fan in accordance with wiring diagram in the terminal box.

The fan is equipped with a drive motor for single- or three-phase AC. The motor should be protected with an overload switch. Connection to earth is to be found in the terminal box.

The arrows are seen from the inlet side.

E Start of operation

If the rated current indicated on the rating plate is being exceeded during operation, it should be checked whether the available supply voltage and frequency are in accordance with the embossed data. Some blowers cannot be operated with free airflow (see catalogue). The drive motor is sized for the power requirements when the fan operates in the filled part of the capacity curve. At lower resistance the working range moves out to the pointed part of the capacity curve and the air volume and current increase. The motor will be overloaded with possible overheating as a consequence. To avoid overload it is possible to lit a throttle flap on the inlet- or discharge side. Do not expose the tap to vibrations and shock.

F Maintenance

MPA blowers are equipped with enclosed grooved ball bearings which do not need lubrication. The grease filling is sufficient for the whole service life of the bearings.

Attention!

Repair work on blowers should be store in the factory only. We do not take any responsibility for repairs made by third parties.