

INSTALLATION INSTRUCTIONS AND MAINTENANCE

GENERAL INFORMATION

Visually check the impeller to make sure that it has not received any coup, during transport which might affect their proper functioning.

The packing should not show signs of poor handling.

Verify that the turbine rotates freely, without any friction.

Check that the model corresponds to the characteristics set out in the delivery note, and inscriptions from the motor plate are in accordance with the electrical system, voltage, frequency, etc.

INSTALLATION

Fan must be firmly secured with screws and washers in bracket. Not being tight of the anchor bolts produces noise and harmful vibrations.

To ensure a good installation should be located the following points:

- The measures of the site must be suitable for the fan, making sure to not have interference.
- The distances between holes for fixing will be the same as the fan.
- The screws will have the necessary proportion in resistance, as well as measures to support the load of the fan-
- Use tools suitable and convenient way to not create deformations in motor.
- Greater safety in the installation will be achieved when the work carried out by a qualified person.

Care : Part rotating fans (turbines) are elements very dangerous.

- In cases that are not incorporated, is available as accessories, protective grilles, those parts of the fan which might constitute a danger to the physical integrity of persons.
- Once complete mechanical assembly, ensure that the turbine rotates freely and without any hindrance
- The fan can only operate at the voltage indicated on the motor characteristics plate.
- Make sure that the electrical characteristics of the plate are equal to the power supply, voltage v and frequency Hz. (maximum variation +/-5%.) After the first check can proceed to connecting, respecting the regulation of low voltage. Check that the section of the cable is suitable for the power and consumption of the motor (A).
- Remove the cover of the motor terminal box and follow the diagrams.
- During these operations the mains power supply to the motor will be switched off. Once connected the engine and making sure that it is disconnected from the network, check the tighten the terminals and so same ground (earth) was performed correctly. When the fan is part of a system of machines, multiple installations etc.) You must ensure that the identification in the general box is correct and that safety standards are met.

- Verify that the power cord does not have no interference nor the possibility of friction with parts of rotation of the fan or mobile links.
- He is advisable to connect the motor to the network via a switch or Starter equipped with thermal protector.
- Connect to the network, start the fan, check the direction of rotation and check that the consumption of this intensity (A) is adequate and equivalent to the rated current of the motor. See how to change the direction of rotation. Do not do any manipulation or checking until the fan is completely stopped!
- It is advisable to after the first hour of operation, a verification of the consumption of (a. inspecting the anchoring and fastening of the fixing screws.)
- It is recommended that a qualified electrician do the electrical connection.

MAINTENANCE

-All jobs are made when the installation is without voltage!.

- Welds are painted with anti corrosion paint
- Impellers are balanced dynamically according to the norm: VDI-2060
- The engine is designed that under normal service conditions has many years of life. The bearings are greased for lifetime: However, is advisable to change them from 25,000 hours of effective functioning. Because it is a rotating machine minimum precautions review is necessary.
 - The motor is necessary to keep it clean since if dust accumulates in large quantity in the cooling fins or comes to obstruct them motor is excessively warm
 - Turbines should be cleaned periodically, since dust and residues deposited on the fins, reduce performance and produce a progressive imbalance that affects the performance of the set.
 - It's advisable to check the connections terminal box to check that nuts are tight and screws of connections.
 - Check that there are no difficulties produced by waste, between the rotating part (turbine) and the fixed parts of the engine or envelope.
 - Replacement of belts, should be done every 20,000 h of work
 - Always use proper tools so that they will not damage shafts or bearings covers.
 - If any parts need to be replaced:
 - Standard parts: will be purchased in specialized shops, observing the references, features and measures.
 - To reassemble the fan follow the same procedures listed in the installation.

SISTEVEN S.A. is at your disposal for any clarification.