





Centrifugal Blower Manual

Model RB—For the purpose of breakdown reduction and power, saving, there is a direct proportion between its pressure and electric current. Please enlarge the section area of inlet And outiet ducts a much as possible or use the reducing valve.

A. Exhaustion of Air-installation of a large filter on the inlet end shoud be made.

- 1. The total section area of outler hole should be 1/2 Larger than the outlet section area of blower,
- 2. If sending air under water, the depth of water should be under the maximun perssure value of 70% on catalogs
- 3.If it is used to send air under pressure, the exhaust Temperature due to air friction is nornoally10°C higher than costant temperature. Therefore. It should be used on sleel pipe over 1M long.
- B. Suction of Air-Installation of amuffler may be made.
- 1.Total section area of suction hole should be 1/2 larger than the outlet section area of blower.

Model TB.HTB,PE,CX,MS—-There is an inverse Proportion between the pressure and electric current.therefore,when pipe line is very short or the obstruction is very small:

- 1.please use reduing value to reduce air volume.
- 2. The total section area of inletand outlet duct should be under 70% of section area of inlet and outlet of blower.

Thank you for ordering our centrifugal blowers! Please read this operational manual for safety and high efficiency during application.

1.INSPECTION

Upon ceipt lower ,please check the following items:

- ★Make sure that electric v oltage and frequency Hz and model meet records on labels.
- ★Check of any damage or deformation was made during transportation.

2.STORAGE

For long storage or suspension of application ,please note the Folling items:

- (1)Safe keeping under original packing;
- ★Keep in small variance of room temperature and dry spot.
- (2)Safe keeping under installation

Cover the intire blower with sealer of plastic cloth to prevent from penetration of moisture and foreign substance.

- ★To prevent effect from other machinery vibration under suspension of blower application.
- ★To prevent rust of bearing, Be sure to operate blower for 15 seconds or rotate by hand 10rounds once every two months.

3.INSTALLATION

(1)Installation site

Ambient Temperature and humidity shhould meet the folling conditions.

- ★There phase-10-40°C Single phase-5-40°C
- ★Select site with good Ventilation and less dust and humidity. please note especially that open type motor has less dust and humidity proof.
- ★Please use umbrella when installation is made on an open space. (2)Methods of Installation:
- ★Secure with screw on leveling and hard foundation or base. standard basic weight is generally about 3 times of blower. If the base is uneven, the blower stand may be deformed during fixing of screw. It is therefore that cpecial attention should be made to install additional vibration control until to reduce its noise.

- ★Blower is normally designed to make to bearing on axial leveling position. the weight of impeller and rotor shaft are added on one side bearing, please contact our business department first when vertical site is used.
- ★In case of free gas intake please fix an additional iron wire mesh to prevent from penetration of risky object or foreign substance
- ★Please put the back of exterior fan cover of full closed exterior fan models and open type motor away from wall over 20 min.(making ventilation of cooling air)

4.PIPING

- ★Thr to connect pipes directly on blower in conformitly with center as possible and must be without applying any tention of the blower.
- ★If vibration jiont etc,is used on duct hose ,it may be connected may pervent from conduction of vibration.
- ★Please use flexible joint to conduct hot air to avoid the effect of thermal expansion.
- ★Please apply toward the direction of blower to avoid sudden shrikage ,enlargement or bending etc.

5.WIRING

- ★The system rated voltage and frequency The record value same as those indicated on the rating piate.
- ★Voltage variance should be kept within +5% of a rated Voltage,+ 10% is sometime used ,but it is better not to use as its voltage is too big and is liabie to be broken down.
- ★ Due to blower has no over load heat protection fixture.it is unable to control heat, therefore, please install overload protrctive magnetic switch of same horsepower and safe current is adjusted below same value of name plate.
- ★Select enough thickness of electric wire according to horse power of motir and elwctric working methods in accordance with European Union safety information can be obtained from such as: EN60204-I;EN60034;EN292;EN294;IEE Wiring regulations Particular industeies and countries have further safety requirements.Refer to their trade & safety bodies.

★Grounding

Please install earth lines to prevent from electric leakage a accident.

★Check direction of rotation

Turn on the switch for a while (twinking) after completion of line connecting check its rotation direction and noiseless. The arrow on blower indicates rotation direction. If rotation direction is wrong such as turning into 3phase. just replace any 2 lines of 3 electic wires.

6.OPERATION

- *Part of blower
- 1. Overload will be happened when it is compltely closed RB. HRB)
- 2.It will be overloaded when it is completely closed(CS.PF.CX.TB. HTB.TF MS)please use amperage meter to confirm size of current and adjust buffer under constant.
- ★Avoic turn switch on and off repeateadly within one minute so as leading overheat of motor
- ★Control on frequency changer

When frequency changer is used, power supply rippe is distirted, motor noise is load, and vibration is big too.

When using Frequency changer for operation if leading to rise of temperature or vibration, please stop operation. Please use it under folling terms and conditions.

- (1)Maximum frequency(RPM)
 - Must be kept within frequency as indicated and within rated amperage.
- (2)Minimum frequency (RMP)

 Must be kept over 30HZ, and within a rated amperage.
- (3)A single –phase motor can not be used to operate a frequency changer.

7.MAINTENANCE AND INSPECTION

★Regular inspection(about one month) for vibration etc.as blower always has dust,gas ventilation, may cause impeller and housing to be crodent and wear out,so inspection cycles should be shortened. ★Using closed ball bearing will not be able to supply lubrication oil, the lubeicant lift will be changed largely according to surrounding circumstance and application situations. For continuous operation. average grease lift is about 1000 hours, so please install another one set for interchangeable application.

8.ENQUIRY

If you have any questions, please contact dealers or our company, Thank you for your order...

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