

CENTRAL BLOWER CO.

FORWARD CURVE (FC) BELT-DRIVEN BLOWERS

Operation and Maintenance Instructions

INSPECTION:

Upon receiving, check at once for any damage or missing parts. Check blower wheel to see that it rotates freely. Report any damage to carrier.

INSTALLATION:

For mounting inlet and outlet dimensions, see Forward Curve Blower catalog.

Central forward curve blowers are normally supplied with the discharge in the bottom horizontal (BH) position, however this may be changed to any of eight different positions by removing the cap screws holding scroll housing to frame assembly. Upon rotating the support frame for the proper discharge, replace cap screws. Models of 22" and 26" diameter have a scroll support frame on inlet side. They must be relocated for the proper discharge as well.

Blower should be installed on a rigid flat foundation with flexible connections to the inlet and discharge. If foundation is not level, shim where necessary and secure unit. When unit is mounted check all cap screws and set screws. See that wheel is clear of housing inlet and rotates freely.

After installation, exposed inlet or discharge must be guarded.

V-BELT DRIVES:

Blower pulleys should be aligned and motor fastened to adjustable motor base provided in the frame assembly on all blowers 12" inches and larger. (The nine and eleven inch blowers have a hinge base attachment, with adjusting screws). V-belt drives will provide long life with proper care. Motor shaft should be aligned so it is parallel to blower shaft. Adjustment of belt should be made so that a $\frac{3}{4}$ " deflection is obtained with finger pressure in the middle of belt between pulleys.

Belts must be tight enough to prevent slippage when motor is started. To adjust the speed of the blower, remove belt and loosen the set screw of the adjustable flange of the variable pitch motor sheave and turn the flange to increase or decrease the space between flanges. When retightening setscrew, be sure it is setting on the flat spot of the hub. Adjusting two-groove variable pitch sheaves, both sides must be adjusted the same number of turns otherwise slippage is induced, wearing belts rapidly.

ELECTRIAL CONNECTIONS: A qualified electrician should do all electrical work.

Use flexible conduit to motor in order to prevent the transmission of vibration. Motor should be installed in accordance with local codes and motor wiring diagrams. If motor does not have thermal overload protection, this should be provided. Blower unit should be started to check the rotation of blower wheel, to

verify that it is rotating toward the discharge opening. Check Amperage draw and compare with the nameplate rating on motor. If motor is overloaded, reduce speed by adjusting the variable pitch motor sheave.

Bodily injury may occur if the unit is serviced without disconnecting the energy source.

BALL BEARINGS:

All Central forward curve blowers are equipped with self-aligning ball bearing pillow block. These bearings are pre-packed at factory and need no further lubrication.

Periodic inspection of the blower should include:

1. Checking wheel to see that it is not accumulating a layer of grease or dust.
2. Checking belts to see that they are not frayed or showing signs of failure and that the tension is proper.
3. Checking set screws on bearings and pulleys.

INSPECTION AFTER INITIAL START UP PERIOD:

Once the blower has been in operation for several days, check and retighten the setscrews on the bearings and on the drive sheaves. This will ensure long bearing and shaft life. Check & adjust drive belts.

Be sure that the drive cover is securely replaced to insure that exposed drives and shaft will not be a hazard.

WARRANTY

Central Blower Co. (the Company) warrants that each blower manufactured by the Company shall be free from defects in material and workmanship under normal use and service for a period eighteen (18) months from the date of shipment or twelve (12) months from date of original installation, "whichever occurs first." If it appears within the warranty period that the blower does not meet the warranties specified above and the purchaser notifies the Company promptly, the Company agrees to remedy any such defect, at the Company's option, either by repairing any defective parts or by furnishing at the Company's factory, a repair or replacement part.

This warranty shall not apply to any equipment which has been repaired or altered in any way so as, in the Company's judgment, to affect its performance or reliability, nor which has been improperly installed or subject to misuse, negligence or accident. This warranty does not apply to electric motors, which however, carry warranty of the motor manufacturer. Warranty does not apply to drive belts.

This warranty is expressed in lieu of all other warranties expressed or implied, and of all other obligations or liabilities on the Company's part. The Company neither assumes, nor authorizes any representative or other persons to assume for it, any other liability in connection with the sale of its equipment.

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