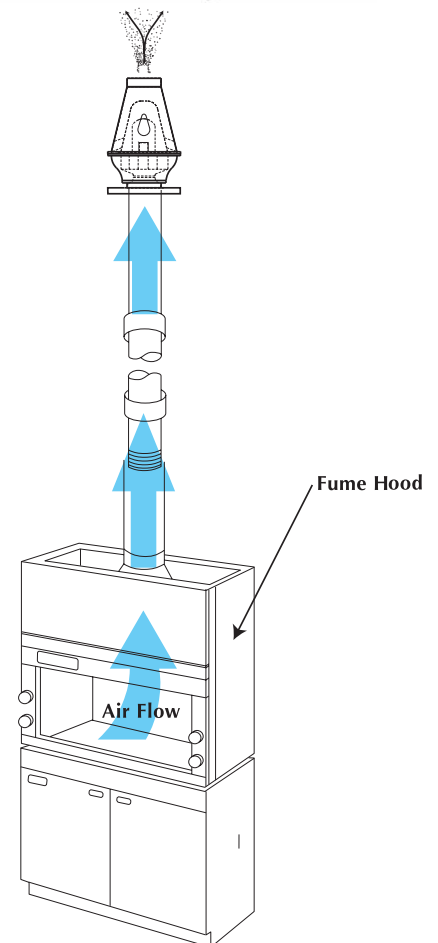


# Corrosive Backward Inclined JET



### Receiving and Inspection

This publication contains the installation, operation and maintenance procedures for standard units of the **CBI Jet**.

Carefully read this publication prior to installation. Carefully inspect the fan and accessories for any damage and shortage immediately upon receipt of the fan.

#### Checklist:

1. Turn the wheel by hand to ensure it turns freely and does not bind.
2. Inspect dampers (if included) for free operation of all moving parts.
3. Remove shipping tape and plastic material.
4. Record on the Delivery Receipt any visible sign of damage **BEFORE CARRIER DEPARTS**.

#### Storage

If the fan is stored for any length of time prior to installation, store it in its original shipping crate and protect it from dust, debris and weather.

#### WARNING

This unit has rotating parts. Safety precautions should be exercised at all times during installation, operation, and maintenance. **ALWAYS** disconnect power prior to working on fan.

### Electrical Supply

Check that the voltage and circuit details on the fan are suitable for your supply.

**Caution:** Never work on a fan unless power is turned off.

#### Wiring

All wiring should be carried out in compliance with regulations for electrical installations and comply with any local requirements.

**Caution:** Never work on a fan unless power is turned off.

#### Starting

All fans are suitable for direct starting by switch or direct line starter.

### Personal Safety

Disconnect switches are recommended. Place the disconnect switch near the fan so that the power can be swiftly cut off in case of an emergency, and also so that maintenance personnel are provided complete control of the power

### Fan Installation Notes:

1. The CBI Jet blowers are shipped completely assembled and ready for installation.
2. Blower unit should be secured to a solid base to prevent vibration and noise.
3. The motor mount stand provides four (4) holes to securely fasten the fan in place. Use screws, bolts, or nails as needed, to secure the blower.
4. Use appropriate connectors and ducting for the applications to connect the fan inlet and outlet.
5. Wiring instructions are included with each utility blower and are also permanently attached to the motor. Observe and follow wiring instructions and all codes that apply. Never attempt to install or remove a blower unit with the power source turned on.
6. Verify that power source meets motorplate electrical requirements.
7. Always use finger guard on inlet/outlet when the unit is running. Do not place hands, fingers, or other objects into the inlet or outlet. **Serious injury may occur!**

#### 1. Rotating

The direction of rotation, looking into the hub of the blower, should be clockwise(CW).

#### 2. Mounting

All fans are suitable for mounting in any plane.

#### 3. Operation

All fans are suitable for internal or external use. The fans are designated to operate in a temperature range of -25F to +200F.

#### 4. Ductwork Connection

In order to excess noise and vibration along the ductwork, we recommend the use of flex connector at the fan inlet and outlet (if applicable).

**\*When connecting duct to inlet and outlet, it is recommended to install three (3) straight duct diameters length of pipe to minimize system effect.**

#### 5. Operation

The CBI Jet Series blower is designed for continuous duty and may be started and stopped by various on/off switch devices.

#### Caution

Most CBI Jet motors have auto thermal overload protection (TOP). Should the blower overheat the motor will stop operation and will start again automatically, once the motor cools down. Always turn power off before attempting to work on the unit! Installation should prevent introduction of foreign materials into the air stream. If foreign materials are present, damage to the blower may result. Appropriate filters and guards should be in place during blower operation.

### Maintenance

The CBI Jet motors have sealed ball bearings and are permanently lubricated, requiring no maintenance. The impeller (fan wheel) and housing should be cleaned periodically to remove any dirt or other build up that may occur.

### Caution

Always turn off the power before attempting any work or maintenance on the unit. If the utility blower housing and impeller require rinsing to clean, a drain plug may need to be installed to drain collected water from the housing. Motors are not washdown duty. If housing is drilled to install drain plug, be careful not to damage the impeller.

### SPECIAL WIRING PRECAUTIONS

All installations should be wired according to the supplied diagrams. Failure to comply will cause the motor to "hum" or not work.

1. Turn off power at service entrance before wiring this fan.
2. Read the fan serial number to determine the current draw. Check that available supply is suitable.
3. Be certain to use proper connector type for securing conduit cable.
4. Connect electrical supply as indicated on supplied wiring diagrams.

### Troubleshooting

1. If fan fails to operate, please check the following:
  - a) Consult wiring diagrams included to assure proper connection.
  - b) To assure proper contact, check motor lead wiring, incoming supply wiring and capacitor connections.
  - c) If possible, use a meter to test for continuity between fan leads. Please note that the capacitor will show no reading if tested with a meter.
  - d) Please assure proper rotation of impeller (clockwise (CW) if looking into the hub of the blower).
2. If fan still fails to operate, consult a FanAm distributor for return/replacement instructions.

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