

## DBF4XL FAN/SWITCH INSTALLATION INSTRUCTIONS

### Fan Installation

#### Step 1. Selecting Fan Location

Fan **must** be mounted a minimum of 15 feet from the dryer outlet. *If the fan is mounted closer than the recommended 15 feet, it may develop enough pressure to lift wet lint into the fan impeller resulting in excessive lint loading in the fan.* \*Note: See exception on the front page of these instructions. In any application, the fan should be mounted as close as possible to the termination of the duct work. In order to perform recommended maintenance, fan location should allow sufficient access for service. Refer to dimensional drawings shown below.

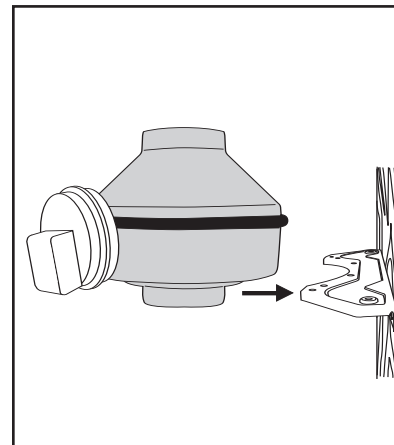
#### Step 2. Mount Bracket

Using the wood screws provided, attach the mounting bracket to a support beam at the selected location. Bracket is provided with gaskets in order to isolate any vibration and prevent the transmission of sound through the structure. Be careful not to overtighten. Fan mounting can be in any angle, however, vertical mounting is recommended to reduce condensation buildup in the fan. If a horizontal installation is necessary and condensation buildup may pose a problem, a 1/4" hole drilled in the bottom of the housing (along with an NPT insert and drain tubing) will allow condensation to drain.

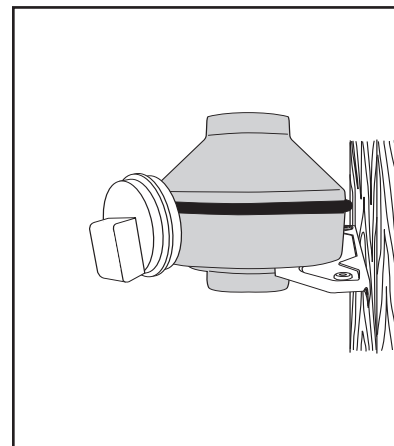
#### Step 3. Mount Fan

*For optimum sensitivity, the switch diaphragm should be positioned vertically.* (Illustrations below show diaphragm position for horizontal, vertical and ducts installed at an angle.) Wiring box should be positioned for easy access. Attach fan to the mounting bracket with the self tapping screws provided. Care should be taken not to strip the housing. Although screw pilot holes are not required, 3/32" (or smaller) pilot holes are recommended.

**NOTE: Steps 2 & 3 may be reversed.**



*Mount Bracket*



*Mount Fan*

## Recommended Maintenance

1. Since fan bearings are sealed and provided with an internal lubricating material, no additional lubrication is necessary.
2. Fan impeller may accumulate lint. Periodic inspection, based upon dryer usage, should be performed to ensure that the fan impeller is not obstructed or loaded with lint. Under normal conditions, fan should be inspected a minimum of every Six (6) Months. *Note: Excessive booster fan noise or vibration may be an indication of lint buildup on the impeller. To inspect and clean the impeller:*
  - a. Disconnect the incoming power supply at the source.
  - b. Remove the duct from the fan inlet and remove any lint buildup on the impeller.
  - c. Reconnect the duct to the fan. Turn power supply on.

## Troubleshooting

***Important Notice:*** Prior to performing Steps 1 - 4, be certain that the electrical supply to the fan/switch is turned off.

*If fan fails to start when the dryer cycle begins, please follow the procedure listed below:*

1. Check the incoming supply for proper voltage.
2. Consult schematic shown on Page 3 of these instructions to ensure proper connection.
3. If possible, use a meter to test for continuity across the fan motor leads. In order to do this, the capacitor and pressure switch must be disconnected (do not test the capacitor - it will not meter continuity). If motor leads show continuity, rewire the fan, capacitor and pressure switch.
4. Turn on the electrical supply and restart the dryer cycle. Check to be certain that fan starts.

*If fan still fails to start after performing Steps 1 - 4, continue following the procedure as listed below:*

5. Verify that the pressure switch diaphragm is vertical as illustrated on Page 2 of these instructions. If the diaphragm is not vertical, reposition the pressure switch and check for fan operation against another dryer cycle.
6. Verify that the tubing is not crimped and that the tubing connector nipples are not obstructed.
7. If switch diaphragm is vertical and fan still fails to start, with the electrical supply on:
  - a. Remove the tubing from the nipple on the fan and blow gently into the tubing;
  - b. If fan starts, consult Fantech for additional technical support.
8. If fan fails to start after blowing into the tubing:
  - a. Disconnect incoming power supply at the source.
  - b. Remove the pressure switch leads from the wiring terminal block
  - c. Connect the incoming power supply directly to the fan motor as shown in "FX4XL Wiring" diagram below.
  - d. Turn on power to fan.
9. If fan fails to start, please consult Fantech for additional technical support.

## FIVE (5) YEAR WARRANTY

This warranty supersedes all prior warranties

### **DURING ENTIRE WARRANTY PERIOD:**

FANTECH will repair or replace any part which has a factory defect in workmanship or material. Product may need to be returned to the fantech factory, together with a copy of the bill of sale and identified with RMA number.

### **FOR FACTORY RETURN YOU MUST:**

Have a Return Materials Authorization (RMA) number. This may be obtained by calling FANTECH either in the USA at 1.800.747.1762 or in CANADA at 1.800.565.3548. Please have bill of sale available.

- The RMA number must be clearly written on the outside of the carton, or the carton will be refused.
- All parts and/or product will be repaired/replaced and shipped back to buyer; no credit will be issued.

OR

The Distributor may place an order for the warranty part and/or product and is invoiced. The Distributor will receive a credit equal to the invoice only after product is returned prepaid and verified to be defective.

FANTECH WARRANTY TERMS DO NOT PROVIDE FOR REPLACEMENT WITHOUT CHARGE PRIOR TO INSPECTION FOR A DEFECT. REPLACEMENTS ISSUED IN ADVANCE OF DEFECT INSPECTION ARE INVOICED, AND CREDIT IS PENDING INSPECTION OF RETURNED MATERIAL.

DEFECTIVE MATERIAL RETURNED BY END USERS SHOULD NOT BE REPLACED BY THE DISTRIBUTOR WITHOUT CHARGE TO THE END USER, AS CREDIT TO DISTRIBUTOR'S ACCOUNT WILL BE PENDING INSPECTION AND VERIFICATION OF ACTUAL DEFECT BY FANTECH.

THE FOLLOWING WARRANTIES DO NOT APPLY:

- Damages from shipping, either concealed or visible. Claim must be filed with freight company.
- Damages resulting from improper wiring or installation.
- Damages or failure caused by acts of God, or resulting from improper consumer procedures, such as:
  1. Improper maintenance
  2. Misuse, abuse, abnormal use, or accident, and
  3. Incorrect electrical voltage or current.
- Removal or any alteration made on the FANTECH label control number or date of manufacture.
- Any other warranty, expressed, implied or written, and to any consequential or incidental damages, loss or property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

### **WARRANTY VALIDATION**

- The user must keep a copy of the bill of sale to verify purchase date.
- These warranties give you specific legal rights, and are subject to an applicable consumer protection legislation. You may have additional rights which vary from state to state.