

# Fantech DBF4XL Series Dryer Booster System

## Description

A integral centrifugal fan and positive pressure sensing switch specifically designed for residential dryer vent booster applications. The fan can be mounted in any angle at any point along the duct work and straight-through air flow design allows easy installation. By using FC type mounting clamps, fan can easily be removed from duct work for service. Fan inlet and outlet are 4" diameter allowing direct installation into dryer vent duct thereby eliminating the need for transition pieces. Motor bearings are a permanently sealed, self lubricating ball type. DBF4XL fan is backed by **Fantech's Five Year Warranty**.

### Installation Notes:

- 1) For maximum sensitivity, switch diaphragm must be mounted vertically. Failure to orient the diaphragm vertically may result in improper operation.
- 2) Fan must be mounted a minimum of 15 linear (not equivalent) feet from the dryer in order to prevent the impeller from loading with wet lint. If mounted within 15 feet, a secondary lint trap (DBLT4) must be used. (see installation manual)
- 3) Fan should be inspected periodically, depending on amount of usage, and cleaned as necessary.

## Guide Specifications for Model DBF4XL Residential Dryer Vent Booster System

Inline fan shall be of the centrifugal, direct driven type.

## Construction

### Housing

- Fan housing shall be constructed of heavy gauge galvanized sheet metal.
- Internal air straightening vanes shall be provided for maximum air performance.
- Fan shall be supplied with externally mounted electrical terminal box and pre-wired terminal strip connections.
- Capacitor shall be enclosed within the fan electrical junction box.

### Motor

- Motorized impeller shall be an external rotor type, class B insulation, totally enclosed permanent split capacitor type.
- Bearings shall be permanently sealed self lubricating ball type.
- Motor shall be equipped with automatic reset thermal overload protection.
- Motor shall be acceptable for continuous duty.

### Wheel

- Fan wheel shall be of the backward inclined centrifugal type with a well designed inlet venturi for maximum performance.
- Motorized impeller shall be both statically and dynamically balanced as one integral unit to provide for vibration free performance.

### Switch

- Integral positive pressure sensing switch shall be mounted on the fan and prewired to the terminal strip provided in fan electrical junction box.
- Switch shall be set to 0.05" w.g. static pressure.
- Switch shall incorporate a delay-on-break timer cycle to maintain fan performance for intervals of 10 minutes until drying cycle is completed.

## Performance

- Fan performance shall be based on tests conducted in accordance with HVI.

## Code Approval

- Fan shall be tested and approved by UL and CSA (or equals) for safety. Rating shall include approval for residential dryer exhaust and air stream temperature of at least 60°C.

**DBF4XL shall be manufactured under the authority of Fantech, Inc., Sarasota, FL.**



# Fantech

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