



Fantech

Your Ventilation Solutions Company

Installation Instructions for Model DBF4XL

Installation Guidelines

IMPORTANT NOTICE! TO PREVENT THE POSSIBILITY OF DRYER FAN CAVITATION AND/OR EXHAUSTING EXCESS HEAT REQUIRED FOR THE DRYING CYCLE AND COMPROMISING DRYING TIMES, BOOSTER FAN AIRFLOW MUST NOT EXCEED THE DRYER FAN CAPACITY.

Please note: DBF4XL fans **are not** explosion proof. **Do not use the fans if a potentially explosive situation may exist. DO NOT USE with heated air in excess 140°F (60°C).**

Fan and Switch Mounting

The recommended location of the booster fan is a minimum of 15 linear (not equivalent) feet of duct 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. The best location for the fan to be mounted is as close as possible to the termination of the duct work. Exception: If a secondary lint filter is installed between the dryer and the booster fan, the booster fan may be mounted within the minimum distance otherwise recommended (See illustration on right). An **MB** mounting bracket (included) attached to a rafter or joist should be used to stabilize the fan. Although not recommended, a vertical rigid duct may support the fan if the duct is securely stabilized. (Consult local codes prior to supporting the fan in the duct alone.) It is recommended that duct work be attached to the inlet and outlet of the fan by means of **FC** vibration isolation clamps (optional) to permit periodic inspection of the blower. Refer to maintenance instructions for inspection recommendations. All duct connections should be properly sealed to prevent leakage and loss of fan performance. Flex duct connections between the dryer duct connection and exhaust duct should be stretched as smooth as possible.

Pressure Sensor Switch Operation

The **DB10** is a positive pressure sensing switch which recognizes dryer operation and activates the booster fan from an independent electrical circuit. This eliminates connections through the dryer circuit which may void the manufacturers' warranty as well as manual systems which require the attention of the operator or costly current/temperature sensing systems.

Power to the booster fan is connected in series through a normally open terminal on the switch. A pressure tap is connected to a nipple on the side of the switch. When the dryer begins operation, positive pressure in the duct causes the switch diaphragm to expand closing the circuit to the booster fan. An integral delay-on-break timer in the switch will cycle the fan on for intervals of 10 minutes. Cycle will reinitiate after a few seconds as long as the dryer is operating. This will continue until the dryer has stopped and the timer delay period has lapsed. Drying cycles, the booster fan, the delay timer and the pressure switch are not adversely affected by the starting/stopping intervals.



Positive Pressure Sensor Fan Proving Switch and Fan

DBF4XL Kit Includes:

- 1 FX4XL Inline Fan
- 1 DB10 Switch with Integral Delay
- 1 Fan Mounting Bracket and Hardware
- 1 Wall Label (Mount on wall near dryer.)
- 1 Tubing & Grommet

