



better AIRFLOW by DESIGN™

Installation & Maintenance



***DVK-T DRYER BOOSTER KIT
W/SPRING WOUND TIMER***

READ AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

SAFETY INSTRUCTIONS

NOTICE **DVK100B** fans are not explosion proof and should not be used when a potentially explosive situation exists. Do not use where temperatures will exceed 140F/60C.

1. Ensure that the electrical service to the fan is locked in the "OFF" position. Do not re-establish power supply until fan and activation device are completely installed.
2. **DVK100B** fans are not suitable for outdoor use.
3. This unit has rotating parts! Safety precautions must be exercised during installation, operation and maintenance. Turn centrifugal impeller by hand to make sure it rotates freely.
4. For general ventilation use only. Do not use to exhaust hazardous or explosive materials and vapors.
5. To reduce the risk of fire, electric shock, or injury to persons — observe the following:
 - a. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the factory.
 - b. A qualified person(s) must perform installation work and electrical wiring in accordance with all applicable codes and standards, including fire-rated construction.
 - c. The combustion airflow needed for safe operation of fuel burning equipment may be affected by this unit's operation. Follow the heating equipment manufacturer's guidelines and safety standards as published by the National Fire Protection Association (NFPA), the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), and local code authorities.
 - d. When cutting or drilling into walls or ceilings, take care not to damage electrical wires or other hidden utilities.
 - e. Ducted fans must always be vented to the outdoors when used to exhaust moist/humid air.
6. Check voltage at the fan to see that it corresponds to the motor nameplate.

DVK100B-T KIT

Kit includes:

<u>Part #</u>	<u>Description</u>
AXC100B	In-Line Fan
MB150	Mounting Brackets (Set of 2)
CT100V	Spring wound timer 0-1 hour
DVK-NTC	Fan Location Label
DVK-P-I&M	Installation & Maintenance Manual

SPRING WOUND INTERVAL TIMER

This spring wound timer will automatically turn the fan off after a preset period. For automatic operation, turn timer clockwise to desired drying time. Timer will turn "OFF" at the end of preset timed period.

FAN INSTALLATION

⚠ WARNING Disconnect and lock out power supply before performing any installation work. Working on or near energized equipment could result in death or serious injury.

NOTE: The DVK100B dryer booster fan is designed for use in duct runs with an equivalent length between 25 and 110 feet.

NOTE: An auxiliary lint trap (LT100) may be installed between the dryer and the booster fan.

STEP 1. FAN LOCATION

Fan should be mounted a minimum of 15' from the dryer outlet. Allow sufficient access to the fan for recommended maintenance. Affix 'Fan Location Label' in a visible place.

STEP 2. INSTALL FAN

Attach mounting brackets to the fan housing as shown in Figure 1a or Figure 1b. Please note the airflow direction arrow located on the box cover. Secure the fan to a support at the selected location. The fan may be mounted in any position; however, vertical orientation is recommended to reduce condensation build-up in the fan. The terminal box should be positioned for easy access.

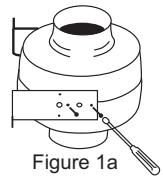


Figure 1a

STEP 3. CONNECT DUCT

Rigid duct is recommended to optimize fan performance. If using flex duct, it should be stretched as smooth as possible. For duct runs in unheated spaces, insulated duct is recommended to reduce the effects of condensation.

Connect duct to the inlet and outlet ends of the fan housing by means of mounting clamps or duct tape and seal to prevent air leakage and loss of fan performance.

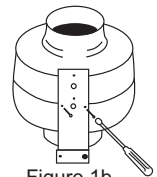


Figure 1b

TIMER INSTALLATION

STEP 4. INSTALL TIMER

The timer fits easily in a standard electrical box. If using an existing switch, remove wall plate and disconnect switch from electrical box. Strip wire ends ½" long using strip gauge on back of timer. Insert the stripped wire ends under the pressure plate of terminal screws on the side of timer and screw down tightly using the screws provided.

Insert wired timer into the electrical box with "TOP" properly positioned and fasten timer to box using the screws provided. Slip metal dial plate over threaded extension with "OFF" position facing up. Fasten metal dial plate securely to timer with stamped nut provided.

STEP 5. CONNECT WIRING

Refer to wiring diagram below. Reattach all electrical box covers before applying power.

TROUBLESHOOTING

⚠ WARNING Only qualified personnel should work on electrical equipment. Working on or near energized equipment could result in death or serious injury.

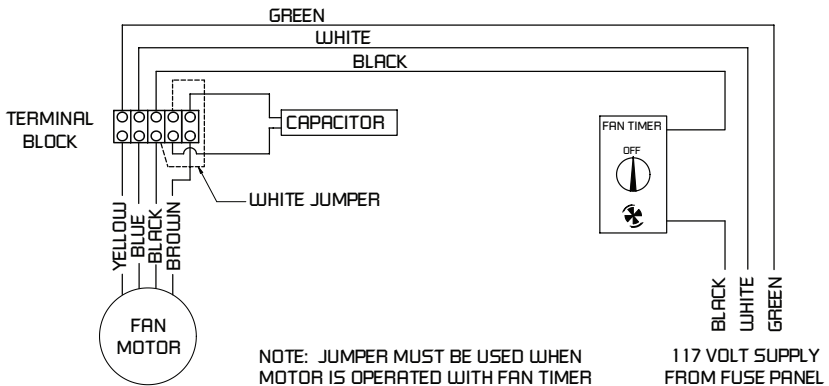
1. If the fan fails to start, consult wiring diagram to ensure proper connection.
2. Check the incoming supply for proper voltage.
3. Ensure that the electrical service to the fan is locked in the "OFF" position.
4. Use a meter to test for continuity across the fan motor leads.
5. If the motor leads show continuity, rewire the fan and timer.
6. Turn on the electrical supply and restart. If fan fails to start, remove the timer from the circuit.
7. Connect the incoming power supply directly to the fan motor. Turn on power to fan.
8. If fan fails to start, please contact factory.

RECOMMENDED MAINTENANCE

⚠ WARNING Disconnect and lock out power supply before performing any maintenance. Working on or near energized equipment could result in death or serious injury.

1. Fan bearings are sealed. No additional lubrication is necessary.
2. Periodic inspection, based upon usage, should be performed to ensure that the fan impeller is not obstructed. The fan should be inspected a minimum of every six (6) months.
3. Excessive fan noise or vibration may indicate an obstructed impeller.
4. To inspect and clean impeller:
 - a) Remove the duct from the fan inlet and remove any obstruction from the impeller.
 - b) Reconnect the duct to the fan.
 - c) Turn power supply on.

WIRING DIAGRAM



DVK-T-I&M-1603

Continental Fan Manufacturing Inc.
203 Eggert Road
Buffalo, New York 14215

Continental Fan Canada Inc.
12-205 Matheson Blvd E
Mississauga, Ontario L4Z 3E3

Continental Fan Manufacturing Inc.
6274 Executive Blvd.
Dayton, Ohio 45424