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Dryer Duct Booster®

For Residential Capacity Clothes Dryers

READ OWNERS INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION. THESE INSTRUCTIONS MUST REMAIN WITH EQUIPMENT. DO NOT DESTROY.

DRYER DUCT BOOSTER® FAN MODEL LB1



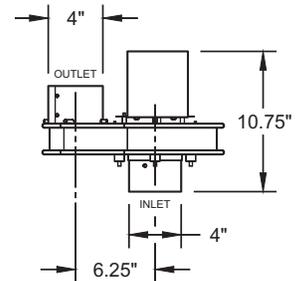
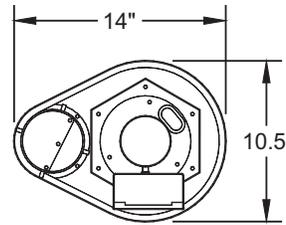
DESCRIPTION & PURPOSE

The Dryer Duct Booster®, Model LB1, has been specifically designed to boost residential capacity clothes dryer duct exhaust velocities where dryer duct runs exceed 25 equivalent feet. Proper exhaust velocities will reduce drying times, save energy and prevent lint buildup in the dryer duct. The LB1 is controlled by an electronic Pressure Response Control (PRC) for automatic operation. The LB1 utilizes galvanized steel construction, a reverse inclined, particulate handling impeller that is guaranteed not to clog with lint and an externally mounted PSC motor for trouble-free operation.

SPECIFICATIONS & COMPONENTS

MODEL LB1

- Blower: 160 cfm
- Motor: 115 Volts ~ 60 Hz
0.80 amps maximum
- Impeller: Reverse inclined, particulate handling
- Components: (1) LB1 wired fan assembly
(1) 16 gauge galvanized steel mounting bracket
(1) mounting hardware packet



INSTALLATION RESTRICTIONS

⚠ WARNING

The LB1 must be installed in compliance with your local building codes. Verify compliance before installing this unit.

The LB1 must be installed in an area in which ambient air temperatures are between -20° F and 140° F (-29° C and 60° C) and ambient humidity does not exceed 85% relative humidity.

Do not install the LB1 in a position where dryer exhaust temperatures exceed 175° F (80° C) at LB1 inlet.

The dryer duct in which the LB1 is installed must terminate with a dryer vent hood with a damper.

Not recommended for dryer duct runs exceeding 100 equivalent feet. Equivalent feet equals linear feet plus 5 additional feet for each 90° elbow and 2.5 feet for each 45° elbow.

Do not install the the LB1 with the discharge facing down, (See Diagram A).

Do not install the LB1 in an orientation where the sensing tube port points directly down where it might fill with condensation. By design, the sensing tube port is offset so it does not point directly down in this mounting orientation. If the LB1 is mounted to warped or not square material, the sensing tube may end up pointing directly down where condensation can pool in sensing tube port, (See Diagram B).

IF INSTALLING THE LB1 IN THIS ORIENTATION, MAKE SURE THE SENSING PORT DOES NOT POINT DIRECTLY DOWN WHERE CONDENSATION CAN POOL IN SENSING TUBE PORT. THIS MIGHT OCCUR IF LB1 IS MOUNTED TO MATERIAL THAT IS WARPED OR NOT SQUARE.

DIAGRAM A



DIAGRAM B



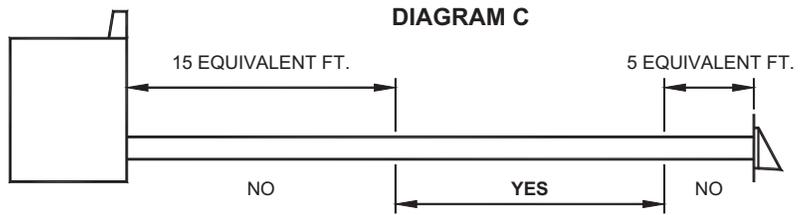
INSTALLATION RECOMMENDATIONS

Avoid installing the LB1 within 15 equivalent feet* of the dryer or within 5 equivalent feet of the dryer vent hood, (See Diagram C).

*Equivalent feet equals linear feet plus 5 additional feet for each 90° elbow and 2.5 feet for each 45° elbow.

Avoid installing the inlet or outlet of the LB1 within 1 foot of dryer duct elbows.

Install the LB1 as close to the middle of the dryer duct run as possible.



MOUNTING

NOTE: Do not use screws in the dryer duct installation. The LB1 motor can be mounted in a horizontal or vertical orientation. Discharge must face up if mounted vertically, (See Diagram D). Do not install the LB1 in an orientation where the sensing tube port might fill with condensation, (See Diagram B).

1. Considering dryer duct routing and LB1 location, use the (4) #10 x 1 3/4" wood screws to secure the mounting bracket to the wood structure using the (4) 3/8" holes in the 1/2 moon portion of the bracket. Do not to over tighten the screws.
2. Based on the desired mounting orientation, position the mounting bracket onto 3 of the 4 vibration isolators located on the LB1. Tighten the bracket in place using the (3) provided 1/4" nuts.
3. Insert dryer duct on inlet and outlet of LB1 and secure using reinforced foil duct tape. See "Initial Setup / Reset of Pressure Response Control (PRC)", below before plugging in.

DIAGRAM D



SEQUENCE OF OPERATION

The LB1 is controlled by an electronic Pressure Response Control (PRC). The control continuously monitors the pressure in the dryer duct. When the dryer is activated, dryer exhaust pressurizes the inside of the dryer duct, activating the LB1. When the LB1 and dryer are operating together, they establish a resulting pressure that is monitored by the PRC. When the dryer shuts off, this pressure decreases and the PRC shuts off the LB1.

INITIAL CALIBRATION / RESET OF PRESSURE RESPONSE CONTROL (PRC)

WARNING

When first supplied electrical power or if power is reestablished, the LB1 will load its program (about 20 seconds) and then run for 15-30 seconds to learn the pressure baseline of the vent system. **IMPORTANT:** To prevent injury or LB1 impeller damage and for proper calibration, the dryer, dryer duct and LB1 must be installed before supplying power or continuing with the setup procedure.

Each residential capacity clothing dryer installation is unique due to dryer duct length, vent hood type, location of LB1, dryer make & model, etc. Because of these varying conditions, the LB1 needs to learn the application it is installed on. As part of the calibration routine, the LB1 will load its program (about 20 seconds) and then run for 15-30 seconds to learn the pressure baseline of the vent system when power is first supplied or if power is reestablished.

IMPORTANT: For new construction or installations where the dryer is not present, it is necessary for the end user of the dryer to perform the calibration procedure below to program the PRC sensing control before initial use of the dryer.

Once dryer, dryer duct and LB1 are installed and before initial use of the dryer **OR** if the LB1 cycles erratically, the PRC sensing control can be re-calibrated / reset by performing the following procedure:

IMPORTANT: The dryer, dryer duct and LB1 must be installed before continuing calibration of PRC sensing control.

FOLLOW STEPS BELOW FOR INITIAL CALIBRATION / RESET OF PRC SENSING CONTROL

1. Verify that Dryer Exhaust Hood flapper is free of lint and closes when Dryer is not operating.
2. Ensure tha Dryer is off, empty of clothing and completely cool. Make sure the lint trap is empty and the Dryer door is closed.
3. Remove power from LB1, wait 60 seconds and re-supply power. LB1 will start, run briefly and stop.
4. Wait 10 Minutes and then dry clothing as normal. **NOTE:** Try to let the dryer completely finish drying cycles, interrupting drying cycles can lead to intermittent operation of PRC sensing control.

NOTE: If LB1 does not operate in Tandem with Dryer, contact Tjernlund for further assistance.

Adhere LB1 Calibration label in a permanent visible location by dryer, (See Diagram E).

DIAGRAM E



ADHERE LB1 CALIBRATION LABEL IN A VISIBLE LOCATION BY THE DRYER.

MAINTENANCE & SERVICE

The LB1 motor and fan assembly are maintenance free. The fan impeller is designed for particulate handling. The pressure sensing tube is self-cleaning. If the LB1 is acting erratically, perform calibration / reset procedure of the Pressure Response Control (PRC) as outlined on the previous page.

If you have any questions about your LB1 we suggest that you contact your installer, contractor or service agency. If you require technical information contact Tjernlund Products, Inc. at 1-800-255-4208 or visit www.tjernlund.com.

When contacting Tjernlund Products, Inc., please have the following information available:

1. Name and address of installer and service agency.
2. Job code on nameplate, date of original installation and dates any service work was performed.

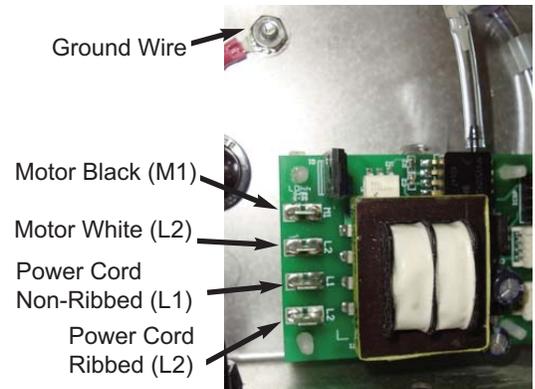
REPLACEMENT PARTS AND WARRANTY

<u>Description</u>	<u>Part Number</u>
Sensing Tube Assembly Kit	950-9100
Pressure Response Control Kit	950-9102
Motor Kit	950-9101

WHAT IS NOT COVERED

- Product installed contrary to our installation instructions.
- Any freight charges related to the return of the defective part.
- Product that has been altered, neglected or misused.
- Any labor charges related to evaluating and replacing the defective part.

PRESSURE RESPONSE CONTROL (FACTORY WIRING)



TJERNLUND LIMITED FIVE YEAR MATERIAL AND NO-CLOG WARRANTY

Tjernlund Products, Inc. warrants to the original purchaser of this product that the product will be free from defects due to faulty material or workmanship for a period of (5) years from the date of original purchase or delivery to the original purchaser, whichever is earlier. Remedies under this warranty are limited to repairing or replacing, at our option, any product which shall, within the above stated warranty period, be returned to Tjernlund Products, Inc. at the address listed below, postage prepaid. Additionally, Tjernlund warrants to the original purchaser of this product that the unit will not become inoperable due to lint blockages that restrict the impeller's motion for a period of (5) years from the date of original purchase or delivery to the original purchaser, whichever is earlier. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, AND TJERNLUND PRODUCTS, INC. EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF THIS PRODUCT. THESE WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND NO AGENT IS AUTHORIZED TO ASSUME FOR US ANY LIABILITY ADDITIONAL TO THOSE SET FORTH IN THESE LIMITED WARRANTIES. IMPLIED WARRANTIES ARE LIMITED TO THE STATED DURATION OF THIS LIMITED WARRANTY. Some states do not allow limitation on how long an implied warranty lasts, so that limitation may not apply to you. In addition, some states do not allow the exclusion or limitation of incidental or consequential damages, so that above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from State to State. Send all inquiries regarding warranty work to Tjernlund Products, Inc. 1601 9th Street, White Bear Lake, MN 55110-6794. Phone (651) 426-2993 • (800) 255-4208 • Fax (651) 426-9547 • Email fanmail@tjfans.com.