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

DRYER DUCT BOOSTER® FAN MODEL DE160



DESCRIPTION & PURPOSE

The Dryer Duct Booster®, Model DE160, 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 DE160 is controlled by an electronic Pressure Response Control (PRC) for automatic operation. The DE160 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

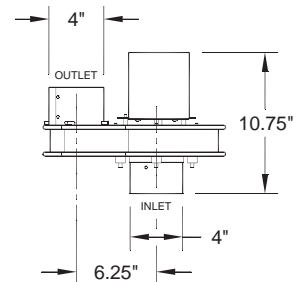
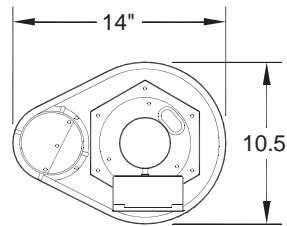
MODEL DE160

Blower: 160 cfm
Motor: 115 Volts ~ 60 Hz
0.80 amps maximum



UL507
CSA 22.2 NO. 113-M

Impeller: Reverse inclined, particulate handling
Components: (1) DE160 wired fan assembly
(1) 16 gauge galvanized steel mounting bracket
(1) mounting hardware packet



INSTALLATION RESTRICTIONS

⚠ WARNING

The DE160 must be installed in compliance with your local building codes. Verify compliance before installing this unit.

The DE160 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 DE160 in a position where dryer exhaust temperatures exceed 175° F (80° C) at DE160 inlet.

The dryer duct in which the DE160 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 DE160 with the discharge facing down, (See Diagram A).

Do not install the DE160 in an orientation where the sensing tube port might fill with condensation, (See Diagram B).

DIAGRAM A



DIAGRAM B

DO NOT INSTALL DE160 IN A POSITION WITH THE SENSING PORT AT THE BOTTOM OF DRYER DUCT WHERE CONDENSATION CAN POOL IN SENSING TUBE PORT.



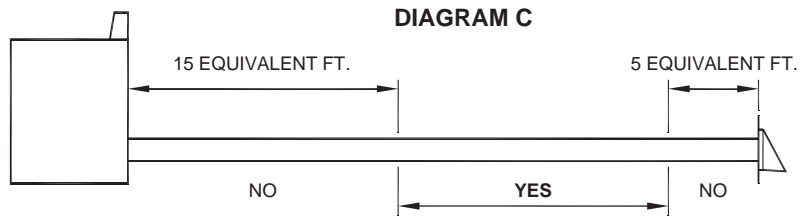
INSTALLATION RECOMMENDATIONS

Avoid installing the DE160 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 DE160 within 1 foot of dryer duct elbows.

Install the DE160 as close to the middle of the dryer duct run as possible.

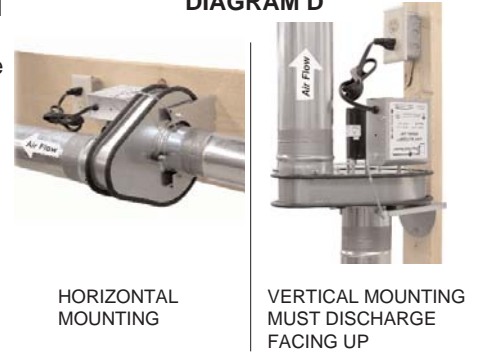


MOUNTING

NOTE: Do not use screws in the dryer duct installation. The DE160 motor can be mounted in a horizontal or vertical orientation. Discharge must face up if mounted vertically, (See Diagram D). Do not install the DE160 in an orientation where the sensing tube port might fill with condensation, (See Diagram B).

1. Considering dryer duct routing and DE160 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 DE160. Tighten the bracket in place using the (3) provided 1/4" nuts.
3. Insert dryer duct on inlet and outlet of DE160 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 DE160 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 DE160. When the DE160 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 DE160.

INITIAL SETUP / RESET OF PRESSURE RESPONSE CONTROL (PRC)

⚠ WARNING

When first supplied electrical power or if power is reestablished, the DE160 will load its program (about 20 seconds) and then run for 15-30 seconds to learn the pressure baseline of the vent system. To prevent injury or impeller damage, install the DE160 in dryer vent system before supplying power.

Each residential capacity clothing dryer installation is unique due to dryer duct length, vent hood type, location of DE160, dryer make & model, etc. Because of these varying conditions, the DE160 needs to learn the application it is installed on. As part of the start up routine, the DE160 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 setup procedure below to program the PRC sensing control before initial use of the dryer.

Once dryer, dryer duct and DE160 are installed and before initial use of the dryer **OR** if the DE160 cycles erratically, the PRC sensing control can be set / reset by performing the following procedure:

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

- Remove all articles from the dryer.
- Clean dryer lint trap and reinstall.
- Verify that dryer door is completely closed.
- Verify that dryer vent system is cool. If need be, cool down the vent system by running dryer for 5 minutes on "Air Dry".
- Verify that dryer is not operating.

IMPORTANT: The dryer, dryer duct and DE160 must be installed before continuing setup / reset of PRC sensing control.

1. Disrupt power to the DE160 by unplugging from electrical outlet or tripping circuit breaker powering the outlet.
2. Wait 10 seconds.
3. Reestablish power to the DE160. In 20 - 30 seconds the DE160 will run to learn the baseline.
4. In 15 - 20 seconds, the DE160 will shut off. Wait at least 30 seconds for learn process to be completed before using clothes dryer.

MAINTENANCE & SERVICE

The DE160 motor and fan assembly are maintenance free. The fan impeller is designed for particulate handling. The pressure sensing tube is self-cleaning. If the DE160 is acting erratically, perform the reset procedure of the Pressure Response Control (PRC) as outlined on the previous page.

If you have any questions about your DE160 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.

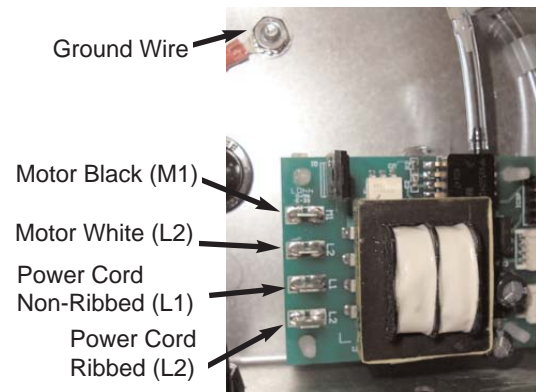
REPLACEMENT PARTS AND WARRANTY

<u>Part Number</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.