

DPV22-2

Dryer Exhaust Duct Power Ventilator

Description

A integral centrifugal fan and positive pressure sensing switch intended for installation in the 101.6 mm (4 in) diameter exhaust duct of a single household clothes dryer, to maintain airflow to extend the length of the dryer exhaust duct. The fan may also be termed a dryer exhaust duct power ventilator (DEDPV). Motor bearings are a permanently sealed, self lubricating ball type. DPV22-2 fan is backed by Fantech's Five Year Warranty.

Installation Notes:

1. Pressure 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 1.5m (5 feet) linear (not equivalent) feet from the dryer and maximum 12m (40 feet) linear.
A secondary lint trap can be used where required and in applications where excessive dryer lint generation is likely or to increase the time interval between routine maintenance of the (DPV22-2) (see installation manual)
3. Fan should be inspected periodically, depending on amount of usage, and cleaned as necessary

Guide Specifications for Model DDPV22-2 Clothes 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
- Fan shall be supplied with externally mounted electrical terminal box with pre-wired 1.8m (6 foot) long power cord with NEMA 5-15 style plug
- Capacitor shall be located within electric terminal box

Motor

- Motorized impeller shall be an external rotor type, class B insulation, totally enclosed permanent split capacitor
- Motor shall use permanently sealed self lubricating ball bearing 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
- Impellers shall be molded of high impact polypropylene

Control

- A visual error indicator shall be placed in a readily visible area to signal system malfunction.
- Control shall perform a cool down cycle with the clothes dryer booster fan at the end of the clothes drying cycle.
- Control shall turn off the clothes dryer booster fan if the air stream temperature goes beyond 260°C (500°F) for more than 15 seconds
- Integral positive pressure switch shall be mounted on the fan and prewired to the terminal strip provided in fan electrical junction box
- Pressure switch shall be set to 20 Pa (0.08 in.wg) static pressure
- Pressure switch shall incorporate a delay-on-break timer cycle to maintain fan performance for intervals of 10 minutes until drying cycle is complete

Code Approval

- Fan airflow performance shall be certified by HVI
- Clothes dryer booster fan shall be certified for dryer booster applications by a recognized certification body in Canada such as UL, CSA or ETL.
- Clothes dryer booster fan shall comply with the requirements specified in CSA 22.2 no.113-15 clause 12.
- Rating shall include approval for residential dryer exhaust and air stream temperatures not to exceed 75 °C (167 °F)

DPV22-2 shall be manufactured under the authority of Fantech, Inc., Lenexa, KS.