

INSTALLATION INSTRUCTIONS FOR IN-LINE DUCT FANS™



READ AND SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

WARNING - To Reduce The Risk Of Fire Or Electrical Shock, Do Not Use This Fan With A Solid-State Speed Control Device. "For General Ventilating Use Only. Do Not Use to Exhaust Hazardous or Explosive Materials and Vapors."

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

Use This Unit Only In The Manner Intended By The Manufacturer. If You Have Any Questions, Contact The Manufacturer.

Before Servicing Or Cleaning Unit, Switch Power Off At Service Panel And Lock Service Panel To Prevent Power From Being Switched On Accidentally. When The Service Disconnecting Means Cannot Be Locked, Securely Fasten A Prominent Warning Device, Such As A Tag To The Service Panel.

Suncourt Inc. does not provide electrical connection information. For your safety and protection follow all instructions and adhere to applicable building and/or electrical codes.

IMPORTANT WARNING

Due to the power of a booster fan, adequate protective measures must be taken to avoid possible contact with the impeller blades. In-Line Duct Fans™ are designed to boost only dry (ambient) heated or cooled airflow in duct conduits of forced air systems with temperatures between 50°F and 140°F. Suncourt Inc. accepts no responsibility for use of this product in other applications.

NEVER EXPOSE YOUR IN-LINE DUCT FAN™ TO TEMPERATURES OVER 140°F (60°C)

ELECTRICAL CONNECTIONS AND WIRING

"WARNING - To Reduce The Risk Of Fire, Electrical Shock Or Injury To Persons, Observe The Following:"

Installation work and electrical wiring must be done by qualified person (s) in accordance with all applicable codes and standards, including fire-rated construction.

Your In-Line Duct Fan™ must be connected to a 110/120 Volt AC, 60Hz fuse or circuit breaker protected power source only in a manner approved by all applicable codes. Never connect your In-Line Duct Fan™ to a 240 Volt system.

The wiring installation must be of an approved type and terminate in a standard UL listed 2" x 4" junction box (field supplied) at the In-Line Duct Fan™ and furnace. Consult your furnace wiring diagram to locate the furnace fan power supply wires. To connect to a variable speed furnace fan, please consult a qualified installer.

The ground wire (GREEN) must be terminated at the furnace or other suitable ground. The power source must be protected by a fuse or circuit breaker rated at 15 amperes or less.

You may also supply power to your In-Line Duct Fan™ via a Suncourt DuctStat® Plug-In Thermostat™ or a standard on/off switch.

Operating range is 50°F (10°C) to 140°F (60°C). Exposure to temperatures outside this range voids the warranty.

IMPORTANT NOTICE

Single Speed - Must use with UL listed 2" x 4" electrical box (field supplied) when wiring . The motor of your In-Line Duct Fan™ may have 1 White and 1 Black wire or 2 Black wires. If you have a motor with a White and Black wire, connect the White motor wire to the White supply wire and the Black motor wire to the Black supply wire. If you have a motor with 2 black wires, connect either of the Black wires to the White supply wire and the other Black wire to the Black supply wire.

Two Speed - Must use with UL listed 2" x 4" electrical box (field supplied) when wiring . Make sure you connect the colored wire as shown below. Failure to connect correctly will destroy the motor. No warranty claim for an incorrectly wired motor will be accepted by Suncourt.

WIRING INSTRUCTIONS FOR IN-LINE DUCT FANS:

	WHITE (neutral or common) wire from power source	BLACK (hot or line) wire from power source	Green (ground) wire from power source
DB100 DB102 DB200 DB204 DB205 DB206 DB208 DB210 DB212 DB412 DB414 DB416 DB6GT, DB8GT	Black wire or White wire (see note above) from motor.	Black wire from motor.	Green wire from motor.
DB301, DB305, DB306	Black wire from motor.	LOW fan speed: Yellow wire from motor. HIGH fan speed: Red wire from motor.	Green wire from motor.
DB308, DB310	White wire from motor.	LOW fan speed: Red wire from motor. HIGH fan speed: Black wire from motor.	Green wire from motor.

Electrical Connections (The wiring installation must terminate in a UL listed 2" x 4" electrical box with knockouts for ½" conduit).

Use the supplied sheet metal screws to fasten the electrical box to the fan.

Pilot holes have been pre-drilled for your safety and convenience.

Do **NOT** drill new mounting holes as this may cause damage to the motor or the wiring.

GENERAL INSTALLATION NOTES

For maximum performance and minimum noise, the best location to install your In-Line Duct Fan™ is 6 - 10 feet from the register you wish to boost air to.

To prevent air leaks use a good quality duct tape to seal seams in the ductwork after installing the In-Line Duct Fan™.

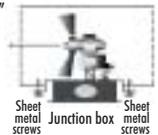
By utilizing tapered reducers you may use larger diameter duct fans in smaller diameter ducts.

Always leave your In-Line Duct Fan™ accessible for maintenance, cleaning or repair.

INSTALLATION INSTRUCTIONS

MODEL: DB102

1. Locate the place in the duct where you wish to install the In-Line Duct Fan™. Align arrow label on unit in direction of airflow.
2. Cut a rectangular opening in the bottom of the duct measuring 3 1/8" x 11 1/4"
3. When installing the fan blades on the motor shafts, make sure to support the motor. Do not bend the motor brackets. Push blades on so that the shaft ends are flush with the front of the fan blade hubs.
4. Fasten the In-Line Duct Fan™ with the supplied #6 sheet metal screws.



MODEL: DB100, 301

1. Locate the place in the duct where you wish to install the In-Line Duct Fan™.
2. Tape the enclosed template to the duct with the arrow pointing in the direction of the airflow. Cut out the required opening by first drilling a pilot hole and cutting along the dashed line using a jig saw or tin snips.
3. Place the Inductor® In-Line Duct Fan™ in the opening, making sure that the fan blade can turn freely. Align the arrow on the unit in direction of airflow.
- 4a. Connect the spring through the middle hole provided in the base plate, stretch the spring and bend over the end for a snug installation. You may complete the installation by covering the seams in the duct with a good quality duct tape.
- 4b. Secure the In-Line Duct Fan™ in position with the supplied #6 sheet metal screws using the provided holes in the base plate of the unit.



MODELS: DB200, DB204

1. Locate the place in the duct where you wish to install the In-Line Duct Fan™. Align arrow label on unit in direction of airflow.

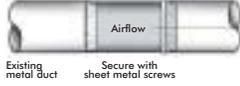
2a. FLEXIBLE DUCT

Simply cut the flexible duct and slide the In-Line Duct Fan™ in place by slipping the cut flexible duct ends over the crimped ends on the In-Line Duct Fan™, making sure the unit is well supported. Complete the installation by securing the In-Line Duct Fan™ to the flexible duct with good quality duct tape or nylon cable ties.



2b. METAL DUCT

Remove a section of the existing ductwork and slide the In-Line Duct Fan™ in place by slipping the duct ends over the crimped ends of the unit. Complete the installation by securing the In-Line Duct Fan™ to the metal duct with the supplied #6 sheet metal screws spaced evenly around the circumference on each end of the unit.



MODELS: DB205, 206, 208, 210, 212, 305, 306, 308, 310, 412, 414, 416

MODELS: DB6GT and DB8GT

1. Locate the place in the duct where you wish to install the In-Line Duct Fan™. Align arrow label on unit in direction of airflow.

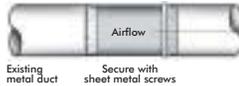
2a. FLEXIBLE DUCT

Install connectors onto any uncrimped ends of the unit. Then simply cut the flexible duct and slide the In-Line Duct Fan™ in place by slipping the cut flexible duct ends over the connectors or crimped ends on the In-Line Duct Fan™, making sure the unit is well supported. Complete the installation by securing the In-Line Duct Fan™ to the flexible duct with good quality duct tape or nylon cable ties.



2b. METAL DUCT

Install connectors onto any uncrimped ends of the unit, or crimp your existing ductwork. Then simply place the existing duct over the crimped ends of the unit, or the existing crimped ductwork into the unit. Secure the In-Line Duct Fan™ to the metal duct with the supplied #6 sheet metal screws spaced evenly around the circumference on each end of the unit.



CLEANING AND MAINTENANCE

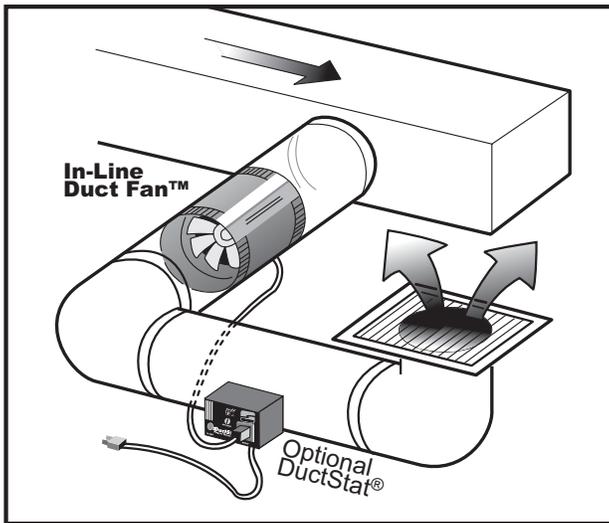
Suncourt Inc. recommends that you clean your In-Line Duct Fan™ at regular intervals, similar to what is recommended for the fan of your furnace, but at least twice a year. Keep your In-Line Duct Fan™ free of lint, dust, and debris. The In-Line Duct Fan™ must never be exposed to temperatures over 140°F (60°C).

ONE YEAR WARRANTY

Subject to the following limitations, Suncourt Inc. (manufacturer) warrants that the In-Line Duct Fan™ will, for 1 (one) year from date of original retail purchase, but not exceeding two years from date of manufacture, remain free from appearance of defects in workmanship or materials. This warranty is subject to the following limitations: (a) manufacturer's liability is limited to the replacement or repair of the unit, as decided by the manufacturer; (b) a defective unit must be returned, prepaid, with proof of purchase, to the point of purchase or as instructed below; and (c) this warranty does not apply to defects resulting from the alteration, abuse, accidental damage, unauthorized repair, or misuse of the unit. This warranty is given in lieu of all other warranties, guarantees, and conditions on manufacturer's part, and the manufacturer shall have no tortious or other liability in respect to this In-Line Duct Fan™.



**BOOST
AIRFLOW**



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