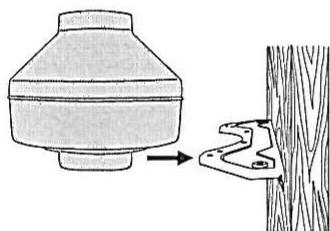


INSTALLATION

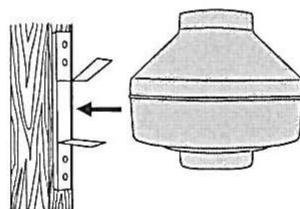
1. The compactness of the FG series, plus the adaptability to be mounted in any position, permits easy installation. This straight-thru air flow fan can be mounted at any angle from horizontal to vertical.
2. Because this unit has rotating parts, safety precautions should be exercised during this phase of installation, operation and maintenance.
3. **CAUTION:** For General Ventilation Use Only. Do Not Use To Exhaust Hazardous Or Explosive Material and Vapors.
4. Remove unit from package and inspect within 15 days after receipt. If damaged, report damage to carrier. Do NOT operate this unit with visible damage to the blower or impeller assembly.
5. **WARNING! 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 any questions, contact your manufacturer's representative.
 - B. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means 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.
 - C. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
 - D. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
 - E. When cutting or drilling into wall and ceiling, do not damage electrical wiring and other hidden utilities.
 - F. Ducted fans must always be vented to the outdoors.
 - G. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) – protected branch circuit.
 - H. NEVER place a switch where it can be reached from a tub or shower.
6. For PB Series fans, if bracket is used to mount fan, refer to illustration 2.
7. To attach duct work, use duct tape at inlet and outlet to assure good seal. If using FANTECH FC clamps: attach FC clamps and insert screws through clamp into inlet and outlet flanges. **CAUTION:** Use $1/2"$ sheet metal screws to secure duct work to inlet and outlet. It is critical that the screw penetrate the metal of the inlet flange but not so far as to bind the impeller. It may be necessary to angle screws away from impeller.
CAUTION: If not using FANTECH FC clamps use $1/4"$ screws.
8. Screen guards must be installed when fan will be within reach of personnel, within seven (7) feet of working area, or when advisable for safety.
9. FGC models are factory wired with a power cord. If installing a FGC model outdoors - Use only on GFCI protected receptacles. Do not use an extension cord with these models.
10. An appropriate duct termination device (roof cap, wall cap, louvered shutters, etc.) are to be used with this fan.

Illustration 1



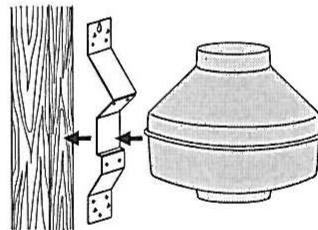
Models

- 4/4XL
- 6
- 5/5XL



Models

- 6XL
- 8/8XL
- 10/10XL

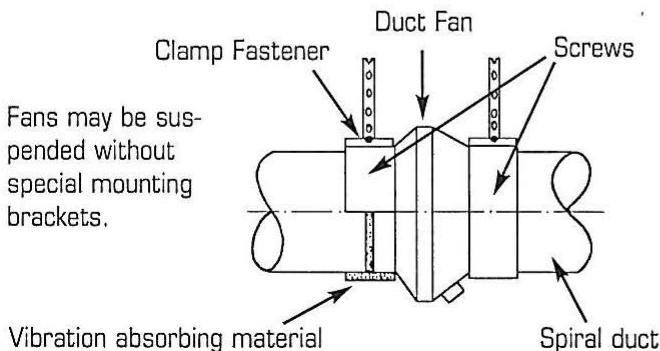


Models

- 12/12XL

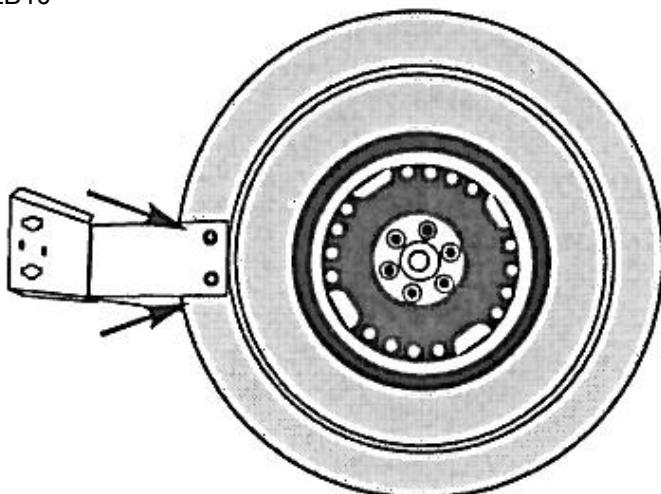
Fan bracket should be installed, then fan mounted directly to bracket using sheet metal screws.

Illustration 2



Models

ILB8
ILB10

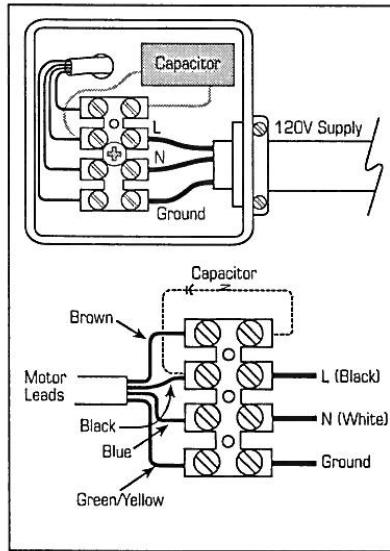


SPECIAL WIRING PRECAUTIONS

All installation should be wired according to the following diagrams.

Failure to comply will cause the motor to "hum" or not work.

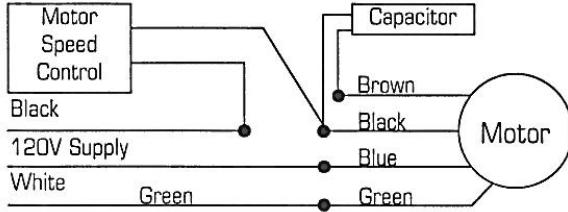
Note: Liquid tight
wiring must be
used for outside
applications.



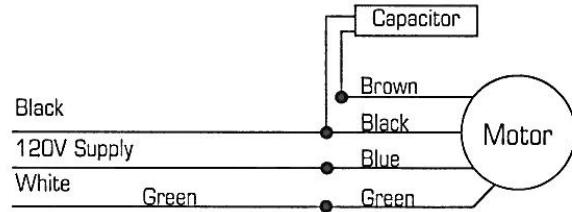
Note: Model FGC
comes pre-wired
with three prong
power cord.

INSTRUCTION FOR ALL MODEL FG FANS

With motor speed controller



Without motor speed controller



TROUBLESHOOTING

If fan fails to operate, please check the following:

- Consult wiring diagrams included to ensure proper connections.
- To ensure proper contact, check motor lead wiring, incoming supply wiring and capacitor connections.
- If possible, use a meter to test for continuity between fan leads. Please note capacitor will show no reading if tested with meter.

MAINTENANCE

- Since fan bearings are sealed and have been provided with an internal lubricating material, no lubrication is necessary.
- Once a year, remove any airborne particles in the impeller. No other maintenance is required.

Installation of Silencer-S8 OR S10

The duct connections on the silencer are 1/8" smaller than the duct size and have a rubber "O-Ring" type gasket for tight sealing. Duct slides over the duct connections and can be secured to the silencer by suitable sheet metals screws, tape and sealant or by clamps, securing method is dependant on the installation and application. Adequate support for the weight of the silencer is required. The silencer can be mounted in any orientation for air flow.

The silencer is normally installed close to the inlet or outlet of an inline fan, the position is normally on the side where you want the sound suppression.



CLAMPS-Included

Warranty provided by Fantech. 800-747-1762. **NOT** included in Imperial's standard 7 Year, In-Home Warranty.