

## In-Line Fans

**MODELS: ILF120, ILF130, ILF250,  
ILF360, ILF 530**

### IMPORTANT SAFETY INSTRUCTIONS

**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 questions, contact the manufacturer.
- B. 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.

- Suitable for use with solid state speed controls.

**CAUTION:** For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

### INSTALLATION INSTRUCTIONS

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

- A. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- B. 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.
- C. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- D. Ducted fans must always be vented to the outdoors.
- E. **NEVER** place a switch where it can be reached from a tub or shower.

### FOR BEST RESULTS

When installing the Ventilator in a **new construction site**, install fan and ducting during the rough-in construction of the building. Inlet grille(s) should be installed after the finished ceiling is in place.

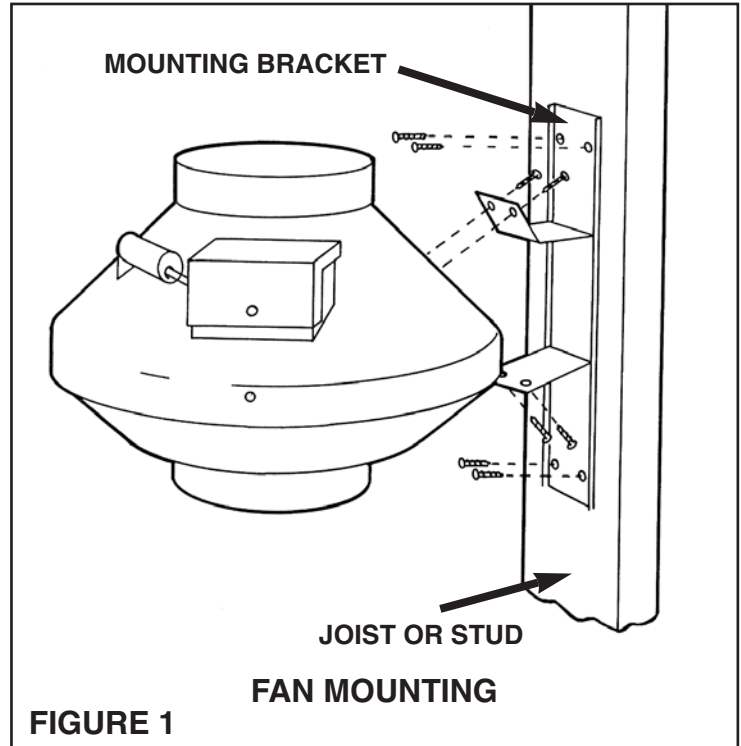
To install a ventilator in an **existing building** requires access to the attic area above the space to be ventilated.

### INSTALLATION IN A NEW CONSTRUCTION SITE

#### MOUNTING

1. Select a mounting site; Identify a mounting location that offers accessibility with minimal duct run. Mount ventilator as far from the inlet grille as practical to minimize noise.

**NOTE:** If used for dryer boosting the ventilator must be mounted at least 12 feet from the dryer outlet. **For gas fired dryers the ventilator capacity (CFM) must not exceed the dryer's fan capacity.**



2. Attach fan mounting bracket to the support joist using the wood screws provided (**Refer to Figure 1**). For best performance vertical mounting is recommended, however any orientation is acceptable.
3. Attach fan to the mounting bracket using the self threading screws provided (**Refer to Figure 1**). To ease attachment  $\frac{1}{16}$ " pilot holes may be used for the mounting screws.

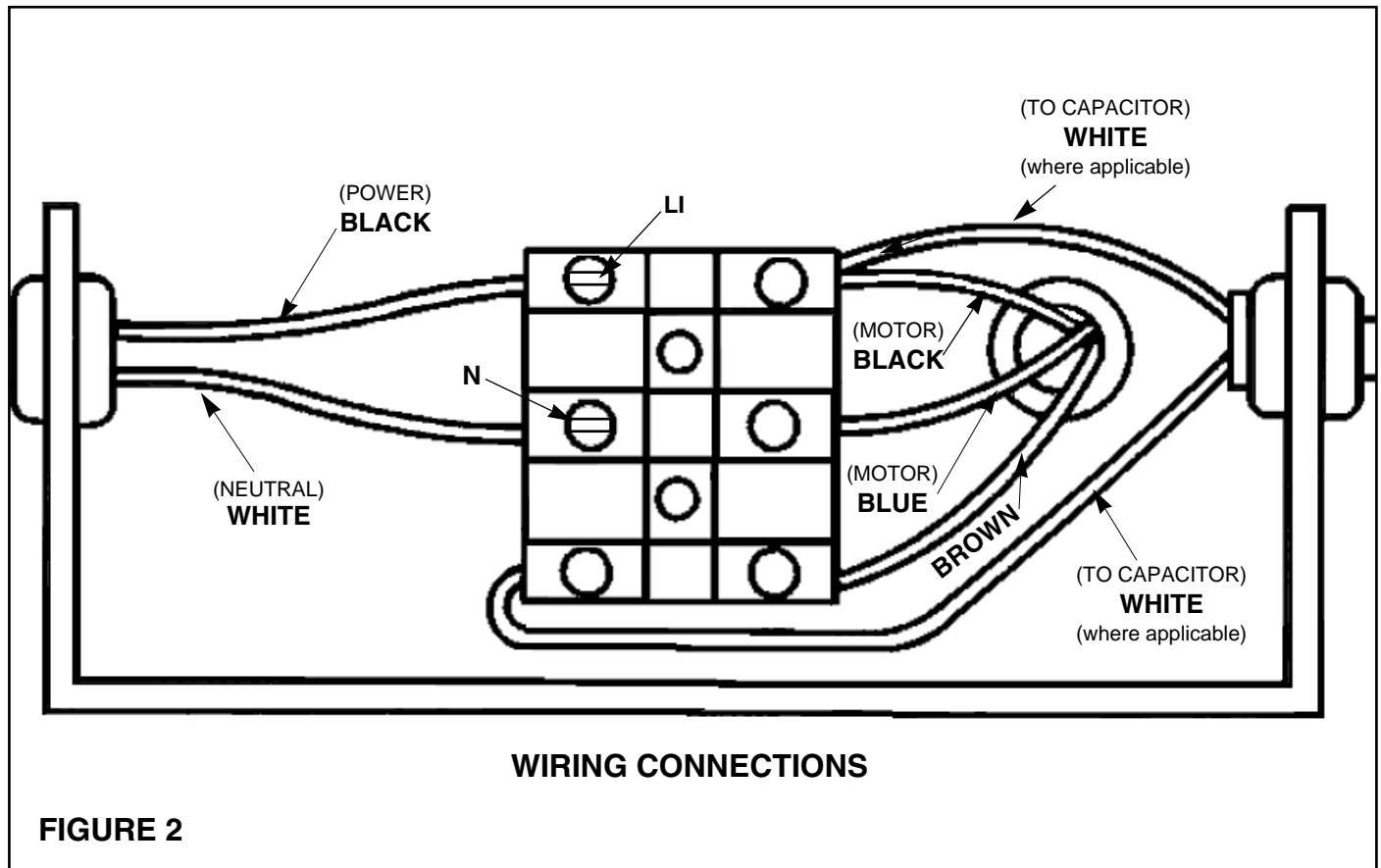
### WIRING

1. Run 120v AC house power wiring through switch box to junction box in ventilator housing.
2. Remove ventilator junction box cover.
3. **Refer to Figure 2.** Connect the house power wire (black) to the terminal marked LI. Connect the house neutral wire (white) to the terminal marked N. The fan housing is fully insulated and therefore no grounding is required.
4. Replace outlet box cover.
5. Connect house power wire to the wall switch.

**NOTE: ALL WIRING MUST COMPLY WITH LOCAL ELECTRICAL CODES.**

### DUCTING INSTALLATION

1. **Refer to Figure 3.** Attach duct to ventilator inlet and outlet using clamps, fasteners and/or duct tape. Observe the following recommendations for best results;
  - A. Always minimize duct lengths and turns.
  - B. When flexible ducting is used be sure that the duct is fully stretched and free of kinks or sharp bends.
  - C. Use insulated ducting when passing through unconditioned spaces.
  - D. When insulated ducting is used clamp or tape the inner vinyl core to the inlet and outlet of the fan and tape the vapor barrier surrounding the duct insulation to the fan housing.
  - E. Always install a damper at the inlet grilles.



## INSTALLATION IN EXISTING CONSTRUCTION

Installing in an existing building requires access to the attic or space above the planned installation.

Carefully examine the installation area to be sure that;

1. Ducting can be installed.
2. Wiring can be run to the planned location.
3. No wiring or other obstructions might interfere with installation.

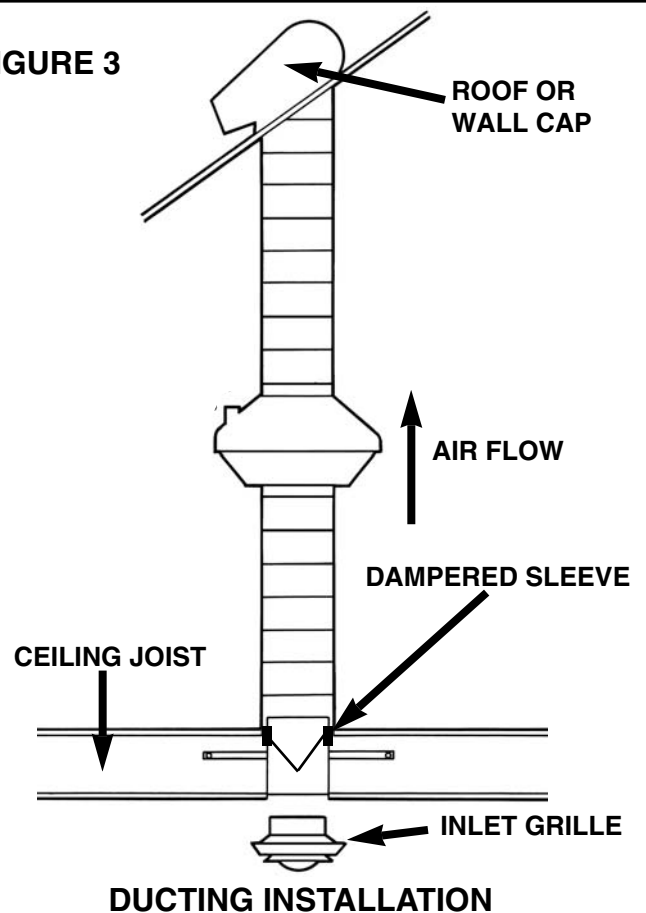
Install fan and ducting following the instructions in "Installation in a New Construction Site".

## CARE AND MAINTENANCE

1. No regular maintenance is required.
2. For dryer booster applications periodically check the fan and discharge vent for lint build up. Clean as needed.

**Caution:** Always disconnect power before inspecting.

**FIGURE 3**





### ***One Year Limited Warranty***

**WARRANTY OWNER:** NuTone warrants to the original consumer purchaser of its products that such products will be free from defects in materials or workmanship for a period of one (1) year from the date of original purchase. **THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**During this one year period,** NuTone will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service. **THIS WARRANTY DOES NOT EXTEND TO FLUORESCENT LAMP STARTERS OR TUBES, FILTERS, DUCT, ROOF CAPS, WALL CAPS AND OTHER ACCESSORIES FOR DUCTING.** This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by NuTone), faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the one year period as specified for the express warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

**NUTONE'S OBLIGATION TO REPAIR OR REPLACE, AT NUTONE'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. NUTONE SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty supersedes all prior warranties.

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Date of Installation

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Builder or Installer