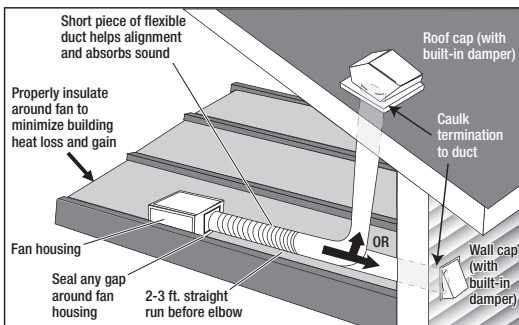


Typical Installation

The ducting from this fan to the outside of the building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.

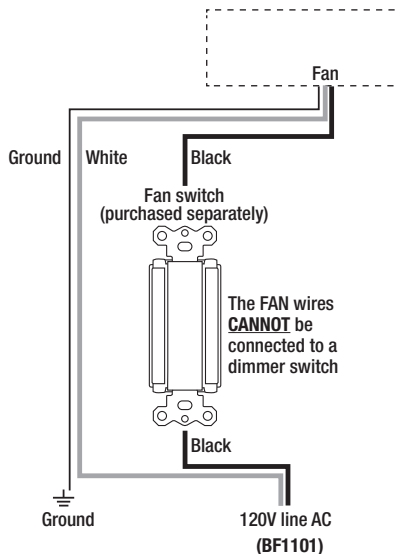
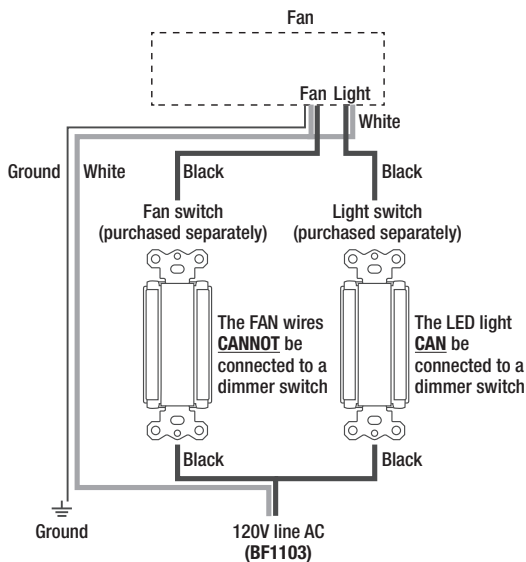


NOTE: When installing ventilation ducts and air vents, ensure that the air vents are not directly exposed to rain, and install appropriate protective measures around the air vents, such as rain cover or waterproof cover, to reduce the possibility of rainwater directly entering the ventilation ducts.



Pre-installation

WIRING DIAGRAMS



WARNING: Wiring must comply with all applicable electrical codes. Turn OFF power before removing or installing connectors



WARNING: COPPER TO COPPER ONLY. Do not use Aluminum wire.

Pre-Installation (continued)

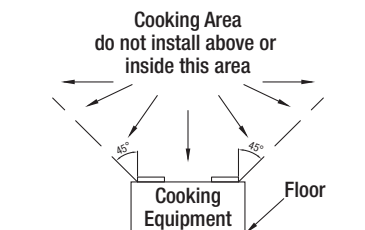
PLANNING YOUR INSTALLATION

When installing the ventilation fan in a new construction site, install the main body of the FAN and duct work during the rough-in construction of the building. The Grille should be installed after the finished ceiling is in place.

When installing in existing construction, use the provided cutout TEMPLATE for the ceiling. Grille edge should overlap finished ceiling.



CAUTION: Not for use in cooking area - see diagram below.



CAUTION: Do not install ventilation fan in areas where the duct work will require configuration as shown.



NOTE: If installing in existing construction, you may need to have access to space above and below the installation location.

There are multiple installation configurations possible for this ventilation fan. Not all configurations are shown. If your installation requires a variation other than those shown, consult with a licensed contractor to determine the best installation for your project. If you are replacing an existing fan, ensure that the new FAN will adequately cover the existing opening.

Turning angle too sharp



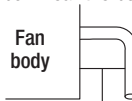
Avoid duct shrink



Too many elbows



Elbow near the body



Minimum 18 in.
(45.72 cm)

- Before beginning assembly of the product, make sure all parts are present. Compare parts with the package contents list and hardware contents. If any part is missing or damaged, do not attempt to assemble the product.



WARNING: Turn off electricity at breaker box before beginning installation.



NOTE: Installation may vary depending on how the previous bath fan was installed. Supplies necessary for the installation of your bath fan are not all included. However, most are available at your local home improvement or hardware store.

- Carefully remove the unit from the carton.
- Check area above installation location to be sure that wiring can run to the planned location and that the duct work can run and the area is sufficient for proper ventilation.
- Inspect duct work and wiring before proceeding with installation.
- Before installation, provide inspection and future maintenance access at a location that will not interfere with installation work.

Pre-Installation (continued)

TOOLS REQUIRED (NOT INCLUDED)



Claw hammer



Phillips screwdriver



Drill bits



Utility knife



Safety goggles



Flat screwdriver



Power drill



Duct tape



Pliers



Tape measure



Gloves



Pencil

HARDWARE INCLUDED

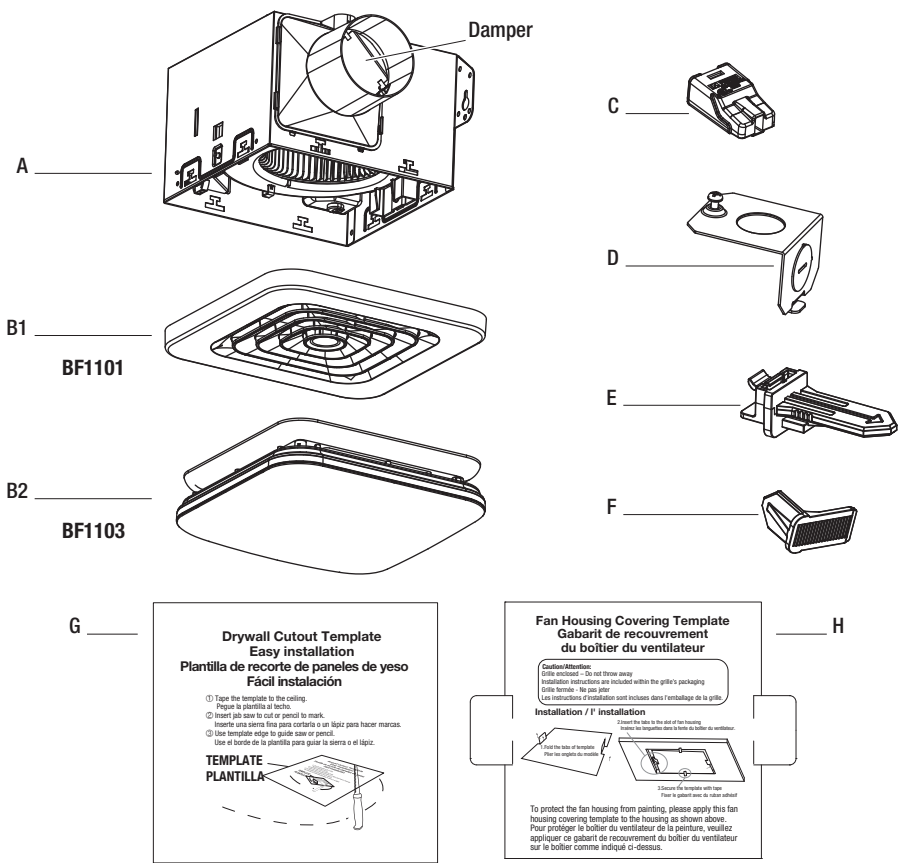
 **NOTE:** Hardware not shown to actual size.



Part	Description	Quantity
AA	Joist screw (ST4 X 20)	2
BB	Short screw (M4 X 11)	1

Pre-Installation (continued)

PACKAGE CONTENTS



Part	Description	Quantity
A	Fan housing	1
B	B1 Grille	1
	B2 Grille with light	1
C	Quick connector	3 (BF1101)
		5 (BF1103)
D	Wire cover	1
E	Clip A	4
F	Clip B	4
G	Cut-hole template	1
H	Drywall cover board	1