

## Installer: Leave this manual with the homeowner. READ AND SAVE THESE INSTRUCTIONS

### ⚠ 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 questions, contact the manufacturer at the address or telephone number listed in the warranty.
- 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.
- Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. 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.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- 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.
- This unit must be grounded.
- Some metal edges and/or corners may be sharp. Use of gloves during installation and removal is recommended.

### ⚠ CAUTION



- For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- For installation in flat ceilings only. **DO NOT MOUNT THIS PRODUCT IN A WALL.**
- To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- **DO NOT TOUCH THE HUMIDITY-SENSING CIRCUIT BOARD.** Electrostatic discharge may damage the circuit board.
- Please read specification label on product for further information and requirements.

## CLEANING & MAINTENANCE

For quiet and efficient operation, long life, and attractive appearance - lower or remove grille and vacuum interior of unit with the dusting brush attachment.

The motor is permanently lubricated and never needs oiling. If the motor bearings are making excessive or unusual noises, replace the blower assembly (includes motor and impeller).

### SENSOR CLEANING

The humidity sensor is mounted in the control housing. The sensor will operate most reliably when cleaned occasionally as follows:

1. Disconnect power at service entrance.
2. Remove the grille. Use a dry dustcloth, clean toothbrush, or lightly vacuum to clean sensor and grille. **DO NOT USE ABRASIVE CLOTH, STEEL WOOL PADS, OR SCOURING POWDERS.**
3. **DO NOT USE** cleaning sprays, solvents, or water on or near the sensor!

## OPERATION

The humidity control, fan, and light can be operated separately. Use a 2- or 3-function wall control. Do not use a dimmer switch to operate the humidity control.

### SENSOR OPERATION

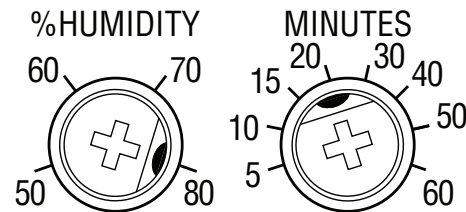
This humidity-sensing fan uses a sophisticated humidity sensor that responds to: (a) rapid to moderate increases in humidity or (b) humidity above a set-point. The humidity sensor may occasionally turn the fan ON when environmental conditions change.

### MANUAL ON WITH TIMED OFF

This humidity sensing fan has an additional operation feature. For odor or vapor control, the fan can be energized by cycling the power switch. Once the fan has been energized in this manner, it will remain on for the set timer period.

To manually energize the fan:

1. If fan power switch is already ON, proceed to Step 2; otherwise, turn power switch ON for more than 1 second.
2. Turn fan power switch OFF for less than 1 second.
3. Turn fan power switch back ON and fan will turn ON.



*Factory settings shown.*

### % HUMIDITY ADJUSTMENT

%HUMIDITY has been factory set at 80% for most shower applications. If fan is not responding to changing humidity conditions, adjust toward 50%. If fan is responding too often to changing humidity conditions, adjust toward 80%. If fan is still responding too often at 80%, contact Broan Technical Support.

To adjust the %HUMIDITY:

1. Turn power off at electrical service panel.
2. Use a small screwdriver to carefully rotate %HUMIDITY control to desired level.
3. Turn power on.
4. Repeat above steps if necessary.

### MINUTES ADJUSTMENT (TIMER)

This humidity-sensing fan has a timer that controls how long the fan remains on after (a) rise in humidity and (b) humidity level are both below the user-adjustable %HUMIDITY setting, or after being energized by cycling power switch.

To adjust the timer:

1. Disconnect power at electrical service panel.
2. Use a small screwdriver to carefully rotate MINUTES control to increase or decrease time.
3. Turn power on.
4. Repeat above steps if necessary.