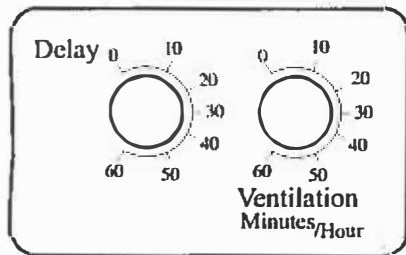


APPENDIX A: CONFIGURING VENTILATION TIME

In order to properly set the VENTILATION time on your SmartExhaust™, you will need to know the code required CFM (Cubic Feet Per Minute) for your home and the Fan CFM. Follow the simple equation below to calculate the VENTILATION minutes per hour.

Code Required Ventilation in CFM	=	Hour
Fan CFM	=	Fraction
Hour Fraction	×	60 Minutes
	=	Ventilation Settings in minutes

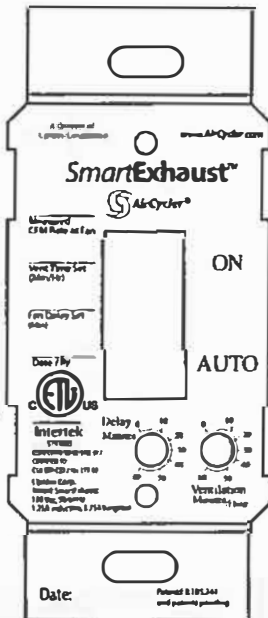
CFM = Cubic Feet Per Minute



APPENDIX B: DELAY CANCEL FUNCTION

If you do not want the DELAY to run after occupancy, you can manually cancel it for that operation. To cancel DELAY time for the toggle version, turn the switch off and back on again within three seconds. Within another three seconds, turn the switch off and the fan will shut off canceling the DELAY for that use.

Note: The fan will continue to run if it's running the VENTILATION time for that hour.



TROUBLESHOOTING AND FREQUENTLY ASKED QUESTIONS

What if you're only in the bathroom for a few seconds?

The switch must be on for 10 full seconds before the microprocessor will start counting time and enable the DELAY function. If you turn the switch back off within 10 seconds, the fan shuts off and no time is counted.

What if you don't want the DELAY time to run after you use the bathroom?

To cancel DELAY time for the toggle version, turn the switch off and back on again within three seconds. Within another three seconds, turn the switch off and the fan will shut off canceling the DELAY for that use. The fan will continue to run if it's running the VENTILATION time for that hour.

What if manual and DELAY time exceeds VENTILATION time?

The microprocessor will calculate the excess ventilation time and subtract it from the total VENTILATION time for the next hour.

If you're SmartExhaust™ is not operating correctly check:

Does the device have power?

Turn the VENTILATION dial to 60 minutes. The fan will come on within 20 seconds if the device is powered. You must hear the fan turn on to verify the microprocessor is running.

Is the device wired correctly?

The SmartExhaust™ will not operate correctly if it is not wired according to the wiring diagram. Be sure the switch it wired to the recommendations of the manufacturer.

For more troubleshooting and frequently asked questions, visit: www.aircyclers.com/pages/troubleshooting or contact 1.877.FAN.CONTROL for technical support.

FOR LIMITED WARRANTY INFORMATION VISIT:
WWW.AIRCYCLER.COM/PRODUCTS

This product is protected by the following patents and patents pending:
8,185,244

FIELD CONTROLS
2630 AIRPORT ROAD
KINSTON, NC 28504
1.800.742.8368
www.fieldcontrols.com



SmartExhaust™



INSTALLATION & USER'S MANUAL

VENTILATION MADE BREEZY!™
a breeze to install • a breeze to use

INTRODUCTION

The SmartExhaust™ is designed to replace bathroom fan and light switches and provide both functions with one easy operation. By using a microprocessor to monitor and control operation, the SmartExhaust™ delivers a precise amount of ventilation.

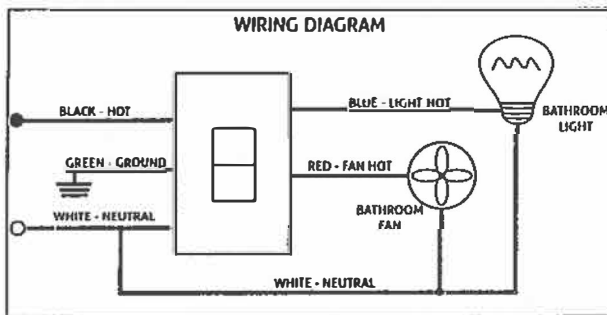
BENEFITS

- Works with ANY fan because it is NOT a solid state device
- Earn LEED and ENERGY STAR points for enhanced exhaust ventilation*
- Make standard bath fans ASHRAE 62.2 compliant*
- Replaces both fan and light switches for one easy operation
- Microprocessor technology provides precise ventilation times
- Programmable DELAY and VENTILATION settings
- Excess manual and/or delay operation is subtracted from the next hour's programmed ventilation time
- Works with ALL incandescent, CFL, fluorescent and LED lights

*When used with ASHRAE 62.2 compliant fans

SAFETY CONSIDERATIONS

Read and follow manufacturer's instructions carefully. Follow all local electrical codes during installation. All wiring must conform to local and national electrical codes. Improper wiring or installation may result in personal injury or product and property damage.



INSTALLATION INSTRUCTIONS

1. TURN POWER OFF at circuit breaker or fuse panel.
2. Remove cover plate and existing switch from wall box if there is one already installed.
3. Connect the wires in the wall box using the supplied wire nuts. Wires must have 3/4 inch of bare copper exposed. Twist wires together tightly with supplied wire nuts. Make sure no bare copper is exposed. Secure connections with electrical tape. If a light is not connected, be sure to attach a wire nut to unused blue wire and secure with electrical tape.
4. Mount SmartExhaust™ switch in to wall box with supplied mounting screws.
5. Set desired DELAY time by turning dial to desired minutes.
6. Set desired VENTILATION time by turning dial to desired minutes per hour.
NOTE: To configure how much ventilation per hour is necessary, see Appendix A on the rear of this instruction sheet.
7. Record settings on face plate with an indelible marker and snap rocker assembly onto face plate.
8. Turn on power at circuit breaker or fuse box.

Note: To fully comply with ASHRAE 62.2 - attach clear ASHRAE sticker to the face of the switch plate.

OPERATING INSTRUCTIONS

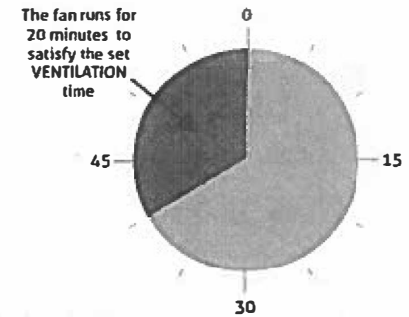
- Move the toggle switch up to turn on the fan and light.
- Move the toggle switch down to turn off the light. The fan will continue to run for the set DELAY time.
- To cancel DELAY time for the toggle version, turn the switch off and back on again within three seconds. Within another three seconds, turn the switch off and the fan will shut off canceling the DELAY for that use.
- DELAY will not activate if the light/fan has not been on for at least 10 seconds.
- The fan will automatically come on once per hour for the set VENTILATION time.
- Any manual and/or DELAY fan operation will be subtracted from the VENTILATION time for that hour.
- If manual fan operation and DELAY operation exceed set VENTILATION TIME, the excess time will be subtracted from the next hour's set VENTILATION TIME.

OPERATION

The SmartExhaust™ has a microprocessor in it that reads the two settings dials. If for example the VENTILATION dial is set to 20 minutes/hour, the microprocessor will subtract 20 minutes from 60 minutes and determines that the SmartExhaust™ needs to come on 40 minutes into the hour and run for the remaining 20 minutes of that hour.

If the DELAY dial is set to 10 minutes and the light/fan switch is manually turned on for 5 minutes, the microprocessor will keep track of the 5 minutes of use. When the switch is turned off after the 5 minutes, the microprocessor will continue to run the fan for the 10 minutes of DELAY setting adding up to a total of 15 minutes. The 15 minutes will be subtracted from the total required 20 minutes of VENTILATION time. 55 minutes into the hour, the fan will turn on and run for the 5 additional minutes needed to complete the required ventilation. See the diagram below for more details.

A Normal Hour of Operation with no occupancy



The Bathroom is occupied for 5 minutes

