Enables the use of energy efficient CFL's in the bathroom

The SmartExhaust™ comes from the same people who brought you the AirCycler® line of ventilation controllers. The SmartExhaust™ is a simple, smart, flexible and economical solution to meet exhaust ventilation requirements.

The SmartExhaust™ is designed to replace the bathroom fan and light switch. By using a microprocessor to monitor and control fan operation, a precise amount of ventilation can be provided.

There are only two settings on the SmartExhaust™ switch: VENTILATION and DELAY. You can set the number of minutes per hour that you want the fan to run with the VENTILATION setting. You can set the number of minutes that you want the fan to run after the bathroom light has been turned off with the DELAY setting. The DELAY setting provides additional run time for the fan to complete ventilating the bathroom after use. The SmartExhaust™ is so smart that if you don’t want or need the fan to run after use there is a simple technique to do so. How? Within three seconds of turning the light off, turn it back on then off again within three more seconds. In just a few seconds, the SmartExhaust™ knows you don’t want the fan to continue running.

Since you are substituting an existing switch, or maybe even two, there are no additional labor costs to the SmartExhaust™ installation. The light and fan are operated by the same switch so the ventilation strategy cannot be defeated.
**Installation Instructions:**

1. Do not connect this device to aluminum wire. Use with copper or coper clad wire only.
2. TURN POWER OFF at circuit breaker or fuse panel.
3. Remove cover plate and existing switch from wall box if there is one already installed.
4. Connect the wires in the wall box using the supplied wire nuts. There must be 3/4" of bare wire exposed.
5. Twist wires together tightly with supplied wire nuts. Make sure no bare copper is exposed and secure the connections with electrical tape. If light is not being connected, be sure to attach a wire nut to the blue wire and secure with electrical tape.
6. Mount the SmartExhaust™ switch into the wall box with supplied mounting screws.
7. Set DELAY time by turning the dial to desired minutes.
8. Set VENTILATION time by turning the dial to desired minutes per hour. Turn on power at circuit breaker or fuse box.

**Operating Instructions:**

- Move the toggle switch up to turn on the fan and the light.
- Move the toggle switch down to turn off the light. The fan will continue to run for set DELAY time if it is not manually cancelled.
- To cancel DELAY time, 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, cancelling the DELAY time for that use.
- DELAY will not activate until the light/fan has been on for at least 10 seconds.
- The fan will automatically come on once per hour for the set VENTILATION time.

Any manual fan operation and DELAY operation will be subtracted from VENTILATION time for that hour. If manual fan operation and DELAY operation exceed VENTILATION time, the excess time will be subtracted from the next hours total VENTILATION time.

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

For example, if the DELAY dial is set to 10 minutes and the light/fan is manually turned on for 4 minutes, the microprocessor will keep track of the 4 minutes of use. When the switch is turned off after the 4 minutes, the microprocessor will keep the fan on for 10 more minutes of the DELAY setting. This will add up to 14 total minutes of fan run time for that hour and will be subtracted from the required 20 minutes of VENTILATION time. 54 minutes into the hour, the fan will come on and run for the 6 minutes needed to complete the required VENTILATION.

**What if manual and DELAY time exceeds VENTILATION time?**
The microprocessor will calculate the excess time and subtract it from the total VENTILATION time for the next hour.

**What if you don’t want the DELAY time to run after you turn off the switch?**
Within three seconds of the light being turned off, turn it back on and then off again within another three seconds. The microprocessor will cancel the DELAY time for that use.

**What if you’re only in the bathroom for 5 seconds?**
The switch must be turned on for at least 10 full seconds for the microprocessor to start counting time and enable the DELAY function. If the switch is turned off within 10 seconds, the fan also

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For purchasing information, contact:

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