

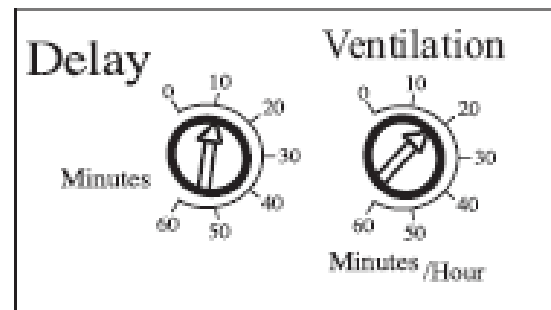
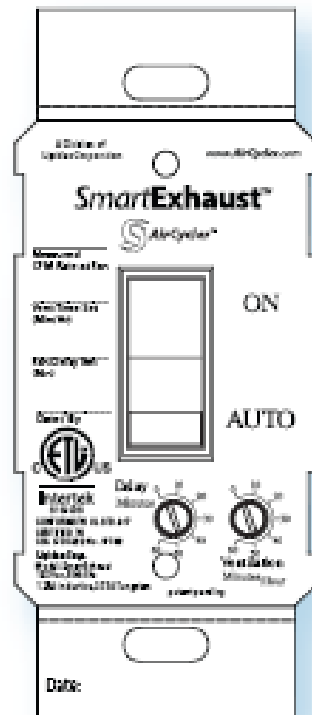
SmartExhaust

04/03/13



SmartExhaust FV-WCPT1-W

- Designed to control Bathroom Exhaust Fans to meet ASHRAE Ventilation Standards
 - Example: 1 BR, 1,000 SqFt Multifamily Unit
 - Calculation: $(7.5 \times 2) + (0.01 \times 1,000) = 25$ CFM Continuous
 - Solution: Whisper Series single speed 50 CFM set to run 30 minutes per hour
 - Execution: If the occupant runs the fan for 25 minutes manually with delay (see below) set to 10 minutes. SmartExhaust will adjust time of 35 minutes run and subtract 5 minutes from the next hour to run for 25 minutes. If no further interaction, SmartExhaust will run for 30 minutes during the following hour.



Example: 10 minute delay,
20 minutes per hour ventilation

Any manual fan operation and **DELAY** operation will be subtracted from **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 hours **VENTILATION** time.

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- Ideally, Panasonic will utilize SmartExhaust paired with Whisper series single speed fans as a quality alternative for Green Building, Multifamily, weatherization and Renovation projects that require continuous ventilation rates. Smart Exhaust is also a solution for existing ENERGY STAR qualified fans that require control.
- SmartExhaust will drop-ship project quantities DIRECT

