

# A better ventilation solution for today's tighter homes



- **New market opportunity for profitable ventilation**
- **Cost-effective solution to meet growing ventilation needs**
- **Manages quantity and quality of air throughout the home**

# Give builders a better solution to 'build tight and ventilate right' — the Aprilaire Ventilation Control System

Builders are constructing tighter homes. Energy efficient windows and doors with double weather stripping are being installed in both new homes and older homes that are being remodeled. Insulation is thicker and the use of air-tight vapor barriers is more prevalent. Better caulk is sealing cracks and other potential air leaks.

As a result, entire buildings are becoming sources of contamination because pollutants are being trapped inside. Without special attention to ventilation, formaldehyde, radon, household chemicals, odors and other contaminants cannot be exchanged for cleaner and fresher outdoor air.

## Builders' options are limited

Many current ventilation practices neither effectively exchange polluted air when it is needed nor manage the temperature or humidity of air coming into the home. Or, if they do exchange air effectively, they require a substantial investment.

- **Straight pipe** ventilation provides fresh air but doesn't control when air comes into the home — it's open all the time, can add excess humidity to the home in summer months and can cause uncomfortable temperature swings.
- **Barometric dampers** work to ventilate, but only when the HVAC blower is operating — providing either none or too little ventilation during milder weather.
- **'Timed' dampers** allow for a certain amount of ventilation each hour, but they don't manage the quality of air entering the home. This adds load to HVAC equipment and raises humidity levels in the summer.
- **Energy or Heat Recovery Ventilators** efficiently exchange polluted indoor air for fresh outdoor air for customers that are willing to make an up-front investment.

**"The real problem is that houses are being built with polluting materials and without provisions for supplying the occupants with fresh air."**

— **Healthy House Building**  
by John Bower

## Now, you can offer a better and more profitable way to ventilate

Builders and homeowners need a better ventilation system, one that helps manage both the quantity and quality of fresh air being circulated in the home at an affordable price.

Help solve the ventilation dilemma by offering the Aprilaire Model 8126 Ventilation Control System. Working in conjunction with an Aprilaire fresh air damper, the Ventilation Controller makes decisions about when and how long to ventilate.

- **Control over the intake of humid air** means the system won't bring in air if the indoor relative humidity is above 60%.
- **Flexible controls and settings** offer an ideal solution for all types and sizes of homes.
- **Separate ventilation time and cycle time adjustments** manage the quantity of incoming and circulating air. You ventilate only when it is needed, never letting in air that is too hot or too cold or that may raise humidity to an unacceptable level.

## Offer customized control and increase profits

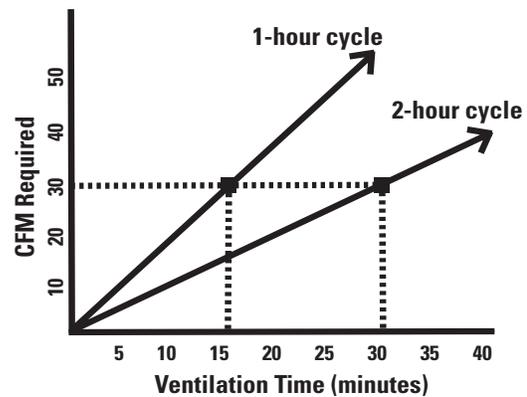
Builders are willing to pay for cost-effective ventilation. The Aprilaire Model 8126 is it. The system efficiently manages the exchange of air for indoor environments, and it gives you the opportunity to satisfy builders without sacrificing profitability.

- Offer economical ventilation with temperature control features
- Use a system that provides consistent ventilation year round
- Manage both the quality and quantity of fresh air in the home
- Bring in fresh air when the home needs it, even if the blower is not running

The Aprilaire Ventilation Control System offers more market potential for you because it complements tight construction practices, regulatory building standards and consumer demands for comfort, energy savings and indoor air quality. Offer Aprilaire and get your share of both the new construction and replacement businesses.

## One system designed to fit different types of homes

There are two adjustable settings: the cycle time and the ventilation time within the cycle time. This flexibility allows you to customize the time the damper is open and the blower is running to meet the ventilation requirement of any sized home. Additional settings and calculations are available on-line at [www.aprilairecontractor.com](http://www.aprilairecontractor.com).



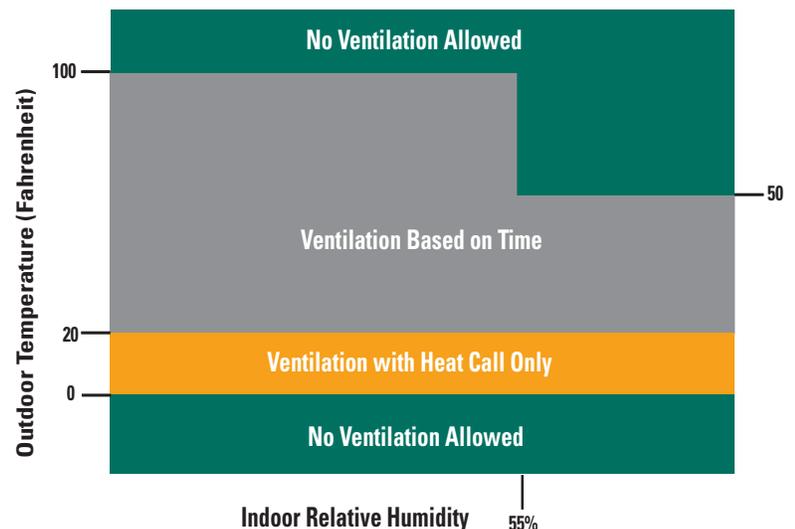
ABOVE: With a fresh air intake that delivers 120 CFM and a 30 CFM requirement, the ventilation controller could be set for 15 minutes of ventilation in a one-hour cycle or for 30 minutes of ventilation in a two-hour cycle. This means you can choose the run-time setting that best suits a specific system or homeowner's preference and still maintain the proper CFM.

## Ventilates only when necessary

Aprilaire Model 8126 continuously monitors indoor relative humidity, outdoor temperature and a user-adjusted timer setting.

Indoor relative humidity is monitored to help prevent high humidity conditions inside homes. The Aprilaire Ventilation Controller will not open the damper to outside air if there is a chance of raising the humidity inside the house to high levels. The Aprilaire Ventilation Controller is designed to prevent indoor relative humidity levels from increasing beyond 60% due to ventilation.

If the outdoor air temperature is below 0 degrees F or above 100 degrees F, the motorized, normally-closed damper to the outside wall will not open.



**Start quoting Aprilaire Ventilation Control Systems today**  
Call 1-800-334-6011 or visit [www.aprilairecontractor.com](http://www.aprilairecontractor.com)

## Model 8126 Ventilation Control System

Features	Benefits
<ul style="list-style-type: none"> <li>• Separate ventilation time adjustment</li> </ul>	<ul style="list-style-type: none"> <li>• Controls that satisfy your customers' needs</li> </ul>
<ul style="list-style-type: none"> <li>• Separate cycle time adjustment</li> </ul>	<ul style="list-style-type: none"> <li>• Allows fan to cycle, increasing air cleaner and humidifier run times</li> </ul>
<ul style="list-style-type: none"> <li>• Minimum off times between cooling call and unsolicited blower call (UBC)</li> </ul>	<ul style="list-style-type: none"> <li>• Allows coil to drain before running fan to prevent moisture from being added back into the home</li> </ul>
<ul style="list-style-type: none"> <li>• 24-Volt control</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to install, saving you time &amp; money</li> </ul>
<ul style="list-style-type: none"> <li>• Measures outdoor temperature to stop ventilation at extremely hot or cold outdoor temperatures</li> <li>• Measures indoor relative humidity, preventing home indoor RH from exceeding 60%</li> </ul>	<ul style="list-style-type: none"> <li>• Increased customer comfort and energy savings over other economical ventilation options</li> </ul>
<ul style="list-style-type: none"> <li>• Installation flexibility – ability to override humidity and temperature control</li> </ul>	<ul style="list-style-type: none"> <li>• Allows you to meet every application</li> </ul>

### Controller Specifications

- Input (R, C): 18 to 30 VAC, 1 amp maximum
- Damper Output: 18 to 30 VAC, 1 amp maximum closed contact
- Temperature Accuracy: + or - 2 degrees F
- Relative Humidity Accuracy: + or - 5% RH
- Cycle Time: 1, 2, 3 or 4 hours (selectable)
- Ventilation Time: 0-60 minutes



**Ventilation Controller  
Model 8120**

### Damper Specifications

- Normally-closed, power open
- 24 VAC
- 0.41 amp
- 2-wire
- 6" diameter
- 10-3/4" long
- Max Static Pressure: 1.0" WC



## Intelligent Solutions for Indoor Environments™

An entire line of indoor air quality products that are the best in their categories. Together they set a new standard for intuitive use, performance and reliability.

Aprilaire products enhance your comfort, health and energy efficiency:

- Zoned Comfort Control • Automatic Humidifiers • Electronic Thermostats
- Ventilation • High Efficiency Air Cleaners • Whole-Home Dehumidifiers

