

# AirCycler® g2-k

## Hybrid Whole House Supply-Exhaust Ventilation System

### AirCycler® g2 Furnace Fan Timer + FanConnect™ Switch + Motorized Damper

The AirCycler® g2-k System is the industry's most efficient and economical solution for meeting all whole house mechanical ventilation standards. By maximizing the efficiency of central furnace fan integration - using a home's regular heating and cooling cycles to provide supply ventilation - and exhaust fan ventilation, the AirCycler® g2-k System delivers fresh air throughout the home with precise control and energy savings.



### Features & Benefits

- Balanced or hybrid whole house supply-exhaust ventilation solution
- Lowest HERS score for whole house ventilation
- AirCycler® g2 is direct replacement for AirCycler® FRV
- Patented algorithm offers precise ventilation control
- No ongoing maintenance required
- Features programmable hours of operation

### Product Details

The AirCycler® g2-k Whole House Mechanical Ventilation System includes the AirCycler® g2 Furnace Fan Timer, FanConnect™ Bath/Fan Light Switch with remote fan control, and a motorized fresh air damper (available in four sizes). This system provides balanced and hybrid whole house supply-exhaust ventilation.

The AirCycler® g2 Furnace Fan Timer is integrated with the home's central furnace fan so that any time the central fan is turned on by the thermostat to provide heating or cooling, the AirCycler® g2 opens the motorized damper to let in a measured amount of fresh air. The fresh air is then distributed uniformly throughout the home through the existing ductwork. When ventilation requirements are met, the damper is closed to prevent over-ventilation.

By running the ventilation system at the same time as the home's regular heating and cooling cycles, the AirCycler® g2-k System saves on additional utility costs.

Should regular heating and cooling cycles not run long enough to meet the desired or required ventilation, the AirCycler® g2 can turn on the smaller and more economical bathroom exhaust fan (or other exhaust fan) through the optional FanConnect™ Switch. With no need to run the large central fan to provide additional ventilation, homeowner complaints of cold air or noisy operation are eliminated and efficiency is drastically improved. Balanced ventilation can be achieved by energizing the exhaust fan any time the motorized damper is opened.

See AirCycler® g2 materials for more information on controller functionality and programming.



This product may be protected by one or more of the following patents and patents pending: 8185244, 7258280, Canada 2562062

[www.AirCycler.com](http://www.AirCycler.com) | [info@aircycler.com](mailto:info@aircycler.com)

# Specifications

## AirCycler® g2 Furnace Fan Timer

Operating Voltage: 24 VAC (up to 30 VAC max)  
 Current Draw: 0.07 Amps

## Motorized Fresh Air Damper

Operating Voltage: 24VAC (up to 30 VAC max)  
 Current Draw: 0.07A idle, 0.125A for 15 sec damper transit time

Power Draw (VA): >1W idle, 3W for 15 sec damper transit time

Wiring Requirements: 18 guage, min

Includes pigtail and damper plug for wiring

Can be installed in any position

## FanConnect™ Switch

Light: 450 Watts @ 120 VAC (blue wire)

Fan: 150 Watts @ 120 VAC (red wire)

Operation: 120 VAC ± 10%

Part No:	Description:
AC-G2K-04	AirCycler® g2 Controller FanConnect™ Switch 4" Motorized Damper
AC-G2K-06	AirCycler® g2 Controller FanConnect™ Switch 6" Motorized Damper
AC-G2K-08	AirCycler® g2 Controller FanConnect™ Switch 8" Motorized Damper
AC-G2K-10	AirCycler® g2 Controller FanConnect™ Switch 10" Motorized Damper
AC-G2	AirCycler® g2 Controller Motorized Damper (any size)
AC-FCS	FanConnect™ Exhaust Fan Control Toggle Switch - White
AC-FC-WIRE	22AWG*2C Class 3 Wire 100ft (For wiring FanConnect to AirCycler® g2)

# HRV/ERV System vs AirCycler® g2-k System

According to building codes, 30 CFM of continuous ventilation must be added. 90 CFM is measured from the fresh air duct to the air handler. 60 CFM is measured exhausted from the bath fan. Compare the g2 and HRV-ERV below:

