

AirCycler® FRV

Furnace Fan Timer w/Optional Motorized Damper Control

The AirCycler® FRV Furnace Fan Timer is a simple solution for meeting whole house ventilation standards. In one user-friendly controller, the AirCycler® FRV integrates with the central furnace fan and existing ductwork to deliver fresh air throughout the home. Using the programmable ON/OFF timer the AirCycler® FRV allows for the enabling and disabling of the central furnace fan and motorized damper to better control ventilation.



Features & Benefits

- Helps meet ASHRAE 62.2 ventilation standards
- Enhances whole house filtration system
- Interlock HRV/ERV systems for use with existing ductwork
- Enhanced temperature and humidity control
- Comes factory present with most applications
- Retains programming during power failure
- LCD display provides current status and troubleshooting

Product Details

The AirCycler® FRV is a furnace fan timer and ventilation controller with an output for operating a motorized fresh air damper*. This product provides whole house supply ventilation through central furnace fan integration.

During installation the AirCycler® FRV is programmed with the amount of ventilation desired. Through integration with the central furnace fan, the AirCycler® FRV is able to detect when the central fan operates for regular heating and cooling cycles- during which time air is being circulated throughout the home - and compares that operation time with the total ventilation time set during installation.

If the ventilation requirements have not been met, the AirCycler® FRV automatically powers on the central fan until the desired ventilation time has been reached. Each time the AirCycler® FRV powers on the central fan it also opens a motorized damper to allow fresh air to enter the home. Using the **programmable ON/OFF settings** for both the fan and the damper, the central fan is not running continuously and energy efficiency is maintained.

By mixing/circulating air from each room, the AirCycler® FRV allows for an “averaging” of air temperature and humidity throughout the home and improves air quality by introducing fresh air and eliminating stagnant air. The AirCycler® FRV works independently of the thermostat.

* Combine the AirCycler® FRV controller with a motorized damper for the AirCycler® VS Whole House Ventilation Solution (Part no. ACVS).



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Specifications

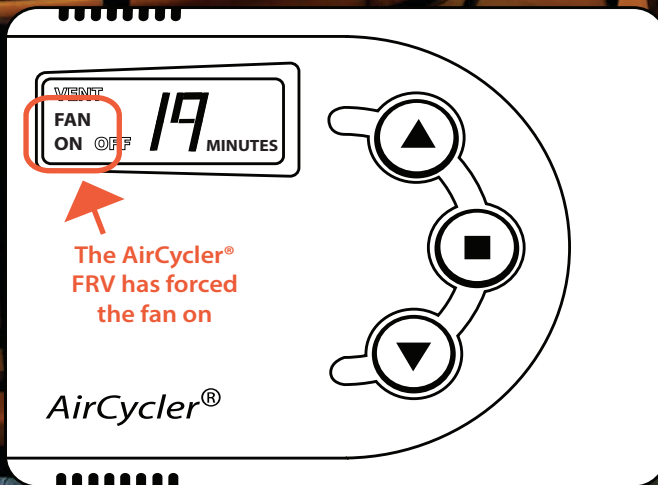
Operating Voltage: 24 VAC (up to 30 VAC max)

Current Draw: 0.07 AMPS

Optional Damper: 24VAC (up to 30VAC max)

Programmable Fan & Vent ON/OFF times

Normal Operation Display



Programmable Fan & Vent ON/OFF Time Settings

1. FAN ON time can be set to 1-199 minutes in 1 minute increments. FAN ON time can also be set to unlimited (UN). UN allows the fan to operate continuously.
2. FAN OFF time can be set to 1-199 minutes in 1 minute increments. FAN OFF time can also be set to unlimited (UN). This will turn the AirCycler® FRV off.
3. VENT ON/OFF time can be set to 1-199 minutes in 1 minute increments.
4. The ON/OFF function enables or disables the fan recycling function, but all thermostat control signals operate regardless of the switch position.

Factory Default Settings:

FAN OFF - 20 Minutes

VENT ON - 10 Minutes

FAN ON - 10 Minutes

VENT OFF - 20 Minutes

NOTE: In humid climates, the FAN OFF time should be at least 6 minutes. This allows moisture on the AC coil to dry preventing condensation in cold supply ducts.

Part No:	Description:
ACFRV	AirCycler® FRV controller
ACVS-04	AirCycler® VS Whole House Ventilation Kit with 4" damper
ACVS-06	AirCycler® VS Whole House Ventilation Kit with 6" damper
ACVS-08	AirCycler® VS Whole House Ventilation Kit with 8" damper
ACVS-10	AirCycler® VS Whole House Ventilation Kit with 10" damper

Wiring Diagram

