

Renaissance Homes Fresh Air System

Purpose: Every Renaissance Home come equipped standard with a Fresh Air System. The purpose of this system is to remove stale and stagnant air from the house and to bring new, fresh air into your home. The system is controlled by a timer that will be located on the wall (usually a hall wall on the second floor or in the utility room). The timer controls the fresh air fan(s) located in the ceiling, and functions similar as a thermostat. When the timer is on, it will start the exhaust fan(s) and open the damper on the furnace duct that runs to the outside. This brings fresh air in through the vent typically on the garage outside wall. It will also start the fan on the furnace to circulate the fresh air throughout the home. Keep in mind that the fresh air is running through your furnace filter before it comes into your house. It's especially important to replace your furnace filter every 30-45 days to keep the system running at peak performance.

When to bring in Fresh Air: Your timer that runs the Fresh Air System runs on 24 hour segments and can be programmed to come on during the desired ½ hour time slot you select. To meet Earth Advantage requirements the timer needs to be set to operate 6 to 8 hours in a 24 hour period. It is suggested to run the timer during the times you are most active in your home and during and after usual bath/shower/cooking times. During hot summer months, you would want to use the system more during the cooler hours rather than during the peak sunny hours.

One note for allergy sufferers, you may want to disengage the system if you are especially allergic to outside air (springtime).

Setting the timer:

At the bottom of the timer you will see 3 push buttons.

Left = Event Cursor (open rectangle). This push button is used to move the Event Cursor to the half-hour segment of the time to be scheduled. This push button causes the Event Cursor to move 1 half-hour.

Middle = Event Set/Reset (filled in rectangle). This push button is used to program an event for the half-hour segment pointed to by the cursor. Each press of the button will set a half-hour time slot. You will be able to see the indication on the LCD as either a Black or White square for the half-hour time segment (a Black square represents the time period that has been selected for the fan to operate and white represents the time period that the fan is not in operation).

Right = Time Cursor (filled in circle). This push button is used to point the cursor at the right of the AM time-line and to the left of the PM time-line. With each press of either the Event or Time Cursor buttons the corresponding icon will appear one half-hour

segment lower with the cursor in the previous position erased. When the icon appears next to the lowest segment of the column (11:30), it will appear at the top of the opposite column at the next button press.

To turn the timer on or off: use the big rectangle above the 3 push buttons. This will manually turn on/off the system for the remainder of the ½ hour segment.

Although there is no heat exchange with this fresh air system minimal energy loss happens while operating. How much energy loss you ask? Approximately \$50 per year for a typical 2000 square foot home but a price well worth the healthier indoor air quality created with this system.

The fresh air system in your Earth Advantage home should run for approximately six to eight hours, while your are asleep, and again around breakfast and early afternoon, then around dinner and/or the early evening. Below are 2 examples of when to set the system to operate.

Example 1: A family of 5 with someone at home most of the day.

Timer Setting: 6AM to 8AM (morning bathing/cooking)
 1PM to 2PM (mid-day)
 6PM to 8PM (evening bathing/cooking)
 Midnight to 2AM (sleeping)

Example 2: A family of 2 with both people working most days.

Timer Setting: 5AM to 7AM (morning bathing/cooking)
 5PM to 7PM (cooking)
 9PM to 10PM (bathing)
 Midnight to 2AM (sleeping)

Renaissance Homes Quality Assurance

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