

AprilAire®

Ventilation

SPECIFICATION SHEET

Model 8145K

Fresh Air Ventilation Kit for Existing Homes



FEATURES

- Kit includes 8145NC Fresh Air Ventilator, 8120X Ventilation Control, 6" start collar and 6" inlet hood.
- High and low outdoor temperature limit lock-outs while maintaining ASHRAE Standard 62.2
- High and low indoor relative humidity (RH) limits can be set on the controller
- Patented logic adjusts on-time and cycle time to meet ventilation requirements within set temperature and ranges*
- Integrated powered damper and removable, washable MERV 6 filter. Replacement MERV 13 filter available.

SPECIFICATIONS

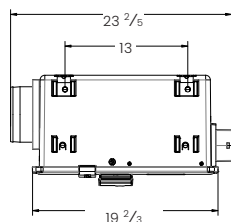
Overall Unit Dimensions	12 1/4" W x 11 3/4" H x 23 2/5" L
Unit Weight	15 lbs
Inlet Collar	6" Round
Outlet Collar	6" Oval
Ventilation Setting	Off, 6-60 min/hr Code/Comfort Operation
Ambient Temperature	0°F - 140°F
Outdoor Temperature Limits	Low: -10°F - 40°F High: 85°F - 105°F
Indoor RH Limits	Low: 10 - 30% High: 45 - 70%
Voltage	115VAC, 1 phase, 60 Hz
Power	Includes 6' power cord
Ducting	6" dia. flexible insulated duct
Warranty	5 Years
ETL	Tested to UL Standard 705 Not for outdoor use

BENEFITS

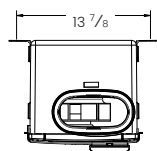
- Kit includes everything needed to install ventilation into existing homes
- Reduces the amount of viruses and contaminants in indoor air by bringing in fresh outdoor air
- Durable construction withstands jobsite abuse
- Optimizes energy savings by locking out ventilation during hottest/coldest times of the day
- Robust design handles hot attics up to 140°F
- Requires only a switched outlet and 24 volt wiring to HVAC system
- Furnace or air handler does not require an ECM to meet efficacy requirement

When properly installed and set, the AprilAire Model 8145K will meet the mechanical ventilation requirements of:**

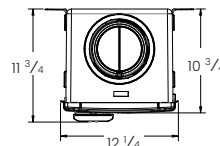
- ASHRAE 62.2
- Energy Star for Homes
- EPA Indoor airPLUS
- International Residential Code (IRC)
- International Energy Conservation Code (IECC)
- California Energy Commission Title 24



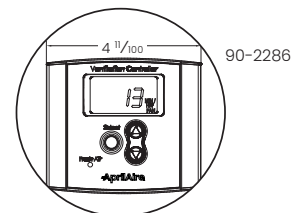
INLET
Round collar for 6" dia. duct



OUTLET
Oval collar for 6" dia. duct



90-2299



*Pat. No. 9,874,366. Applies to all controls listed below.

**8145K compliance is subject to the functionality of the external control. To assure compliance, use an 8910, 8910W, 8920W, 8620 or 8620W thermostat or 8120X ventilation controller.

CONTROLLER INTERFACE

Shows the ventilation time setting (minutes/hr), mode of operation (Code or Comfort) and whether the HVAC fan has been turned on when ventilating.

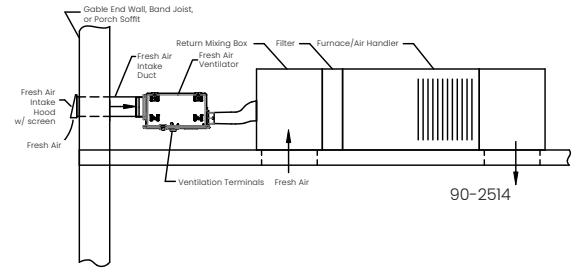
Use for Rater/Inspector Verification. Press and hold for 5 seconds to enter Test Mode or Set Up Menu.

Use to override the calculated ventilation time setting (6 – 60 minutes/hr). Press and hold ▼ to turn ventilation OFF.

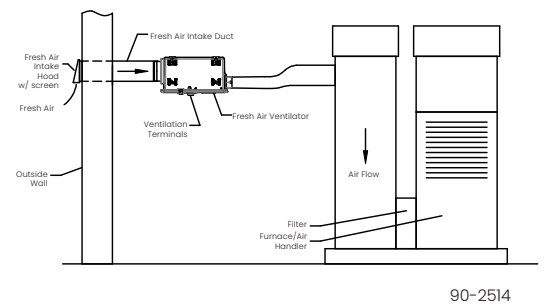
To return to the calculated setting, go completely through the Set Up Menu.

Lights green when ventilating.

TYPICAL ATTIC INSTALLATION



TYPICAL BASEMENT INSTALLATION



RECOMMENDED "HEALTHY HOME" SETTING

When installing, set the 8120X to operate the 8145 for at least 20 minutes per hour. To do so, simply use the up and down buttons to adjust the ventilator to run for 20 MIN/HR after inputting or changing the settings.

SEQUENCE OF OPERATION – "COMFORT" SETTING

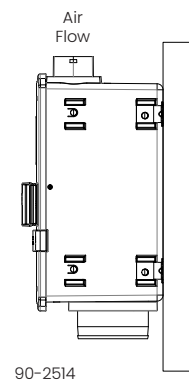
The control will open the vent damper with a heating, cooling or fan call if the outdoor air temperature is within the high and low ventilation temperature limits and the indoor RH is within the high and low RH limits, for the set number of minutes during a one-hour cycle period.

If the HVAC equipment does not turn on enough to meet the ventilation time within the hour, the control will open the vent damper and turn on the HVAC fan without a call, if the outdoor air temperature and indoor RH is within the set limits. If the outdoor temperature or indoor RH are outside of the set limits, then no ventilation will occur.

ESTIMATED PERFORMANCE VALUES		
External Static Pressure*** ("w.c.)	Airflow (CFM)	Efficacy (CFM/watt)
0.0	210	5.2
0.2	180	4.4
0.4	150	3.5
0.6	120	2.8

*** Measured across ventilator.

MOUNTED TO THE WALL



MOUNTED TO THE JOIST

