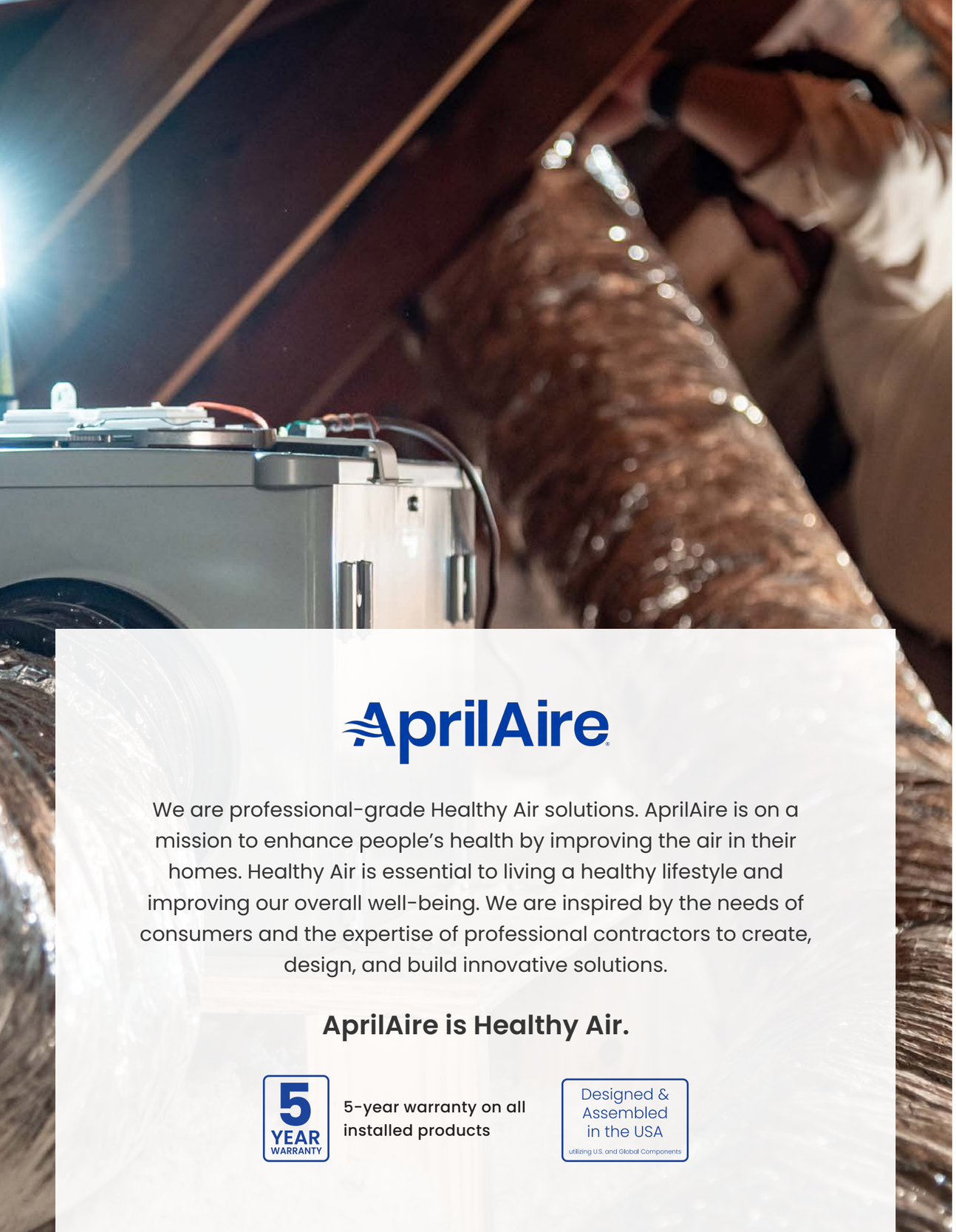
AprilAire PARTNERS

Fresh Air Solutions

Whole-Home Ventilation



Healthy Fresh Air in every home.



AprilAire

We are professional-grade Healthy Air solutions. AprilAire is on a mission to enhance people's health by improving the air in their homes. Healthy Air is essential to living a healthy lifestyle and improving our overall well-being. We are inspired by the needs of consumers and the expertise of professional contractors to create, design, and build innovative solutions.

AprilAire is Healthy Air.

5 YEAR WARRANTY

5-year warranty on all installed products

Designed & Assembled in the USA
utilizing U.S. and Global Components

Every Home Needs Fresh Air.

Homes don't need to breathe, but people do. When a home has proper fresh air ventilation, everyone and everything inside benefits. AprilAire can help. We have a comprehensive lineup of whole-home, fresh air ventilation solutions for every geographic climate zone and application. Our solutions feature patented control logic and energy efficiencies that help make us the right partner for code compliance so you can help your customers, and their homes, breathe better.

HEALTH

- Avoid a dangerous build-up of airborne viruses and other contaminants with controlled, energy efficient fresh air ventilation.
- "The U.S. Environmental Protection Agency (EPA) studies of human exposure to air pollutants indicate that indoor levels of pollutants may be two to five times—and occasionally more than 100 times—higher than outdoor levels."

COMFORT AND PRESERVATION

- Whole-home ventilation introduces fresh air into the home to combat these pollutants and prevent stale odors and stagnant air from impacting the living space of the home.
- A ventilation system works in conjunction with other indoor air quality solutions to minimize damage.

ENERGY EFFICIENCY

- Many successful builders use energy-efficient construction materials to differentiate their businesses. These tighter-built homes increase the need for fresh air delivery to the living space.
- AprilAire's ventilation controller allows for high and low temperature and relative humidity lockouts. Superior control and operation allow our fresh air ventilators to deliver fresh air efficiently and reliably.
- Ventilation solutions include models recognized as ENERGY STAR® Most Efficient for 2023.

BUILDING AND ENERGY CODES

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

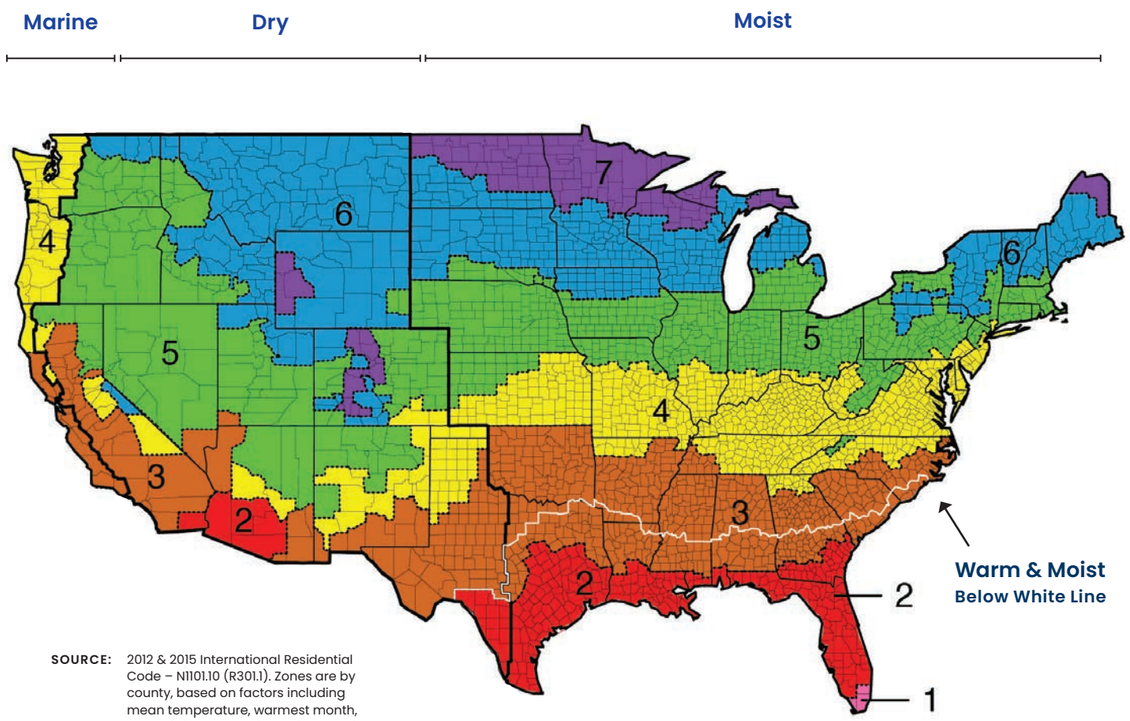


More to fresh air than just a bath fan.

Exhaust ventilation such as bath fans and range hoods work for spot control of pollution. Supply solutions are designed to deliver Healthy Air to the entire home and are the best choice for whole-house ventilation.

Ventilation Climate Zones

Climate has a major influence on the quality of ventilated air brought into the home. Because there are several climate zones in the US and requirements change significantly based on climate, AprilAire has developed products made specifically to best perform in those various conditions. AprilAire ventilation solutions work with HVAC equipment to remove moisture, harmful particulates, and other contaminants suck as VOCs. Relying on exhaust ventilation which just pulls air through walls is not enough. That's why it's so important to use intelligent ventilation controls and application guidance to properly ventilate



SOURCE: 2012 & 2015 International Residential Code – N1101.10 (R301.1). Zones are by county, based on factors including mean temperature, warmest month, precipitation and wet bulb temperature.

Different Climates. Different Solutions.

This map and the adjoining application guide will help you determine the recommended product solution for your climate. These recommendations are based on moisture removal demands, energy savings, and integration with the HVAC equipment.

Ventilation Supply Solutions

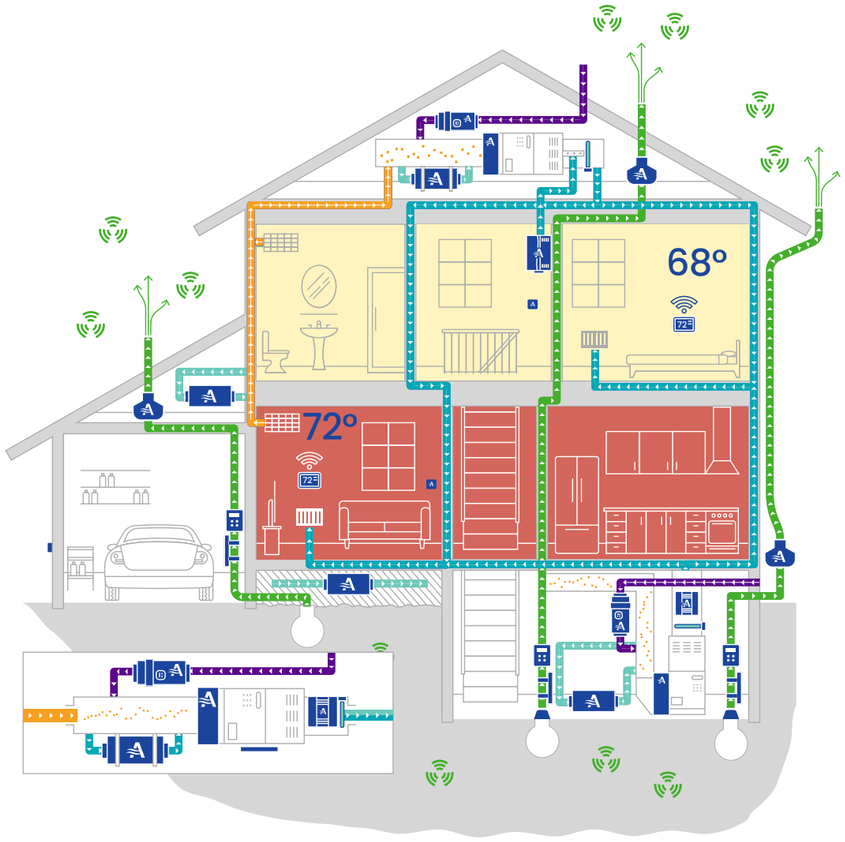
AprilAire Ventilation Application Matrix

ZONE	CLIMATE TYPE	MAJOR CITIES	PRIMARY SOLUTION1	ECONOMY- OR COMFORT-FOCUSED SOLUTION	MULTI-FAMILY NEW CONSTRUCTION SOLUTION
1	Hot & Moist	Miami	E100V + 8190FF	8145 or 8126X	8144NC
2	Hot & Moist	Orlando, Mobile, New Orleans, Houston, Austin, San Antonio	E100V + 8190FF	8145 or 8126X	8144NC
2	Hot & Dry	Phoenix, Tucson	8142A	8126X	8144NC
3	Warm & Moist	Charlotte, Charleston, Atlanta, Little Rock, Oklahoma City, DFW	E100V + 8190FF or V22BEC	8145 or 8126X	8144NC
3	Warm & Dry	El Paso, Las Vegas, Los Angeles, Sacramento	8142A or V22BEC	8126X	8144NC
3	Warm & Marine	San Francisco, San Jose	8142A or V22BEC	8145 or 8126X	8144NC
4	Mixed & Moist	Philadelphia, Washington DC, Baltimore, Nashville, St. Louis, Wichita, Louisville	8145 or V22BEC	E100V + 8190FF or 8126X	8144NC
4	Mixed & Dry	Albuquerque, Amarillo	8142A or V22BEC	8145 or 8126A	8144NC
4	Mixed & Marine	Portland, Seattle	8142A or V22BEC	8145 or 8126C	8144NC
5	Cool & Moist	Boston, Pittsburgh, Columbus, Indianapolis, Detroit, Chicago, Des Moines, Omaha	8145A or V22BEC	8126A	8144NC
5	Cool & Dry	Denver, Salt Lake City, Boise, Reno	8145 or V22BEC	8142A or 8126A	8144NC
6	Cold & Moist	Toronto, Vancouver, Milwaukee, Madison, Minneapolis-St Paul, Sioux Falls	8145 or V22BEC	8126A	8144NC
6	Cold & Dry	Helena, Cheyenne	8145 or V22BEC	8126A	8144NC
7	Extreme Cold & Moist	Fargo, Duluth, Calgary, Edmonton	8145	8126A	8144NC

[1] Primary AprilAire recommended supply ventilation solution for optimal performance and building code adherence.
[2] HVAC application considerations based upon moist versus dry air, and proper mixing into the ductwork.

Fresh Air Ventilation for All Applications

Homes with any type of HVAC system can easily be equipped with AprilAire fresh air ventilators.



- Basement
- Attic
- Crawl Space
- Closet
- Garage

Fresh Air Delivered Through the HVAC System

When ventilation is a part of a home's HVAC system, the required amount of fresh air is delivered to the home at the lowest cost to the consumer. Below are some of the many advantages that whole-home ventilation provides over single-point ventilation.

- Whole-Home Coverage
- Controlled Air Source
- Air Pre-Conditioned
- Positive Pressure

Ventilating Dehumidifier

Models E100V and 8190FF | Specification Sheet

SPECIFICATIONS	
Nominal ventilation airflow (CFM)	12 ¼" W x 11 ¾" H x 23 ⅖" L
Capacity(1) pints/day	15 lbs
Energy factor(1)	6" Round
Airflow @ varying E.S.P. (external static pressure - dry coil)	6" Oval
Voltage, phase, frequency	Off, 6-60 min/hr Code/Comfort Operation
Current draw(1)	0°F - 140°F
Noise-Fan Only	Low: -10°F - 40°F High: 85°F - 105°F
Noise-Compressor and Fan	Low: 10 - 30% High: 45 - 70%
Dimensions: (combined cabinets)(2)	115 VAC, 1 phase, 60 Hz
Weight	E100V Unit Weight: 64 lbs. E100V Shipping Weight: 82 lbs. 8190FF Unit Weight: 13.7 lbs. 8190FF Shipping Weight: 16.8 lbs.
Inlet air operating conditions during	Dehumidification: 50°F–104°F, 40°F dew point min. Ventilation: 40°F–140°F, 0%–99% RH
ETL	Tested to UL Standard 705 Not for outdoor use

FEATURES	
Control	Built-in digital control with display
Cabinet insulation	½" EPS
Air discharge orientation	Top
Inlet/Outlet duct collars	10" round
Backflow damper at outlet	Included
Air filter	Washable MERV 8
Refrigeration	R-410A
Coil type	Corrosion-resistant aluminum
8' Power cord type	Plug type
Drain connection(3)	¾" PVC adapters
Warranty	5 Years

5 YEAR WARRANTY

Designed & Assembled in the USA
utilizing U.S. and Global Components



Most Efficient 2024
ENERGY STAR www.energystar.gov

MODELS

- Model E100V - Dehumidifier (requires 8190FF)
- Model 8190FF - Ventilation Plenum for AprilAire Dehumidifier

FEATURES

- E100V Dehumidifier is wired specifically for use with the 8190FF Ventilation Plenum
- Patent-pending ventilation design
- Removes moisture from outdoor air before it enters the living space
- Unit is designed, when properly installed, to achieve ASHRAE Standard 62.2
- Integral moisture and ventilation control
- High and low temperature limit lock-outs
- Simple plug-in installation
- Installation temperature range up to 140°F
- Optional dehumidification control via thermostats

RECOMMENDED CONTROLS

- AprilAire Thermostat Models
  8620 8620W 8910 8910W
  8920W S86NMUPR S86WMUPR
- AprilAire Communicating Thermostat Model
  8840

BENEFITS

- Helps control RH in the home during periods when the air conditioning system does not run long enough to remove sufficient moisture. If air conditioner can satisfy RH requirements, the AprilAire unit's compressor shuts off
- Optimize energy savings by locking out ventilation during hottest/coldest times of the day
- Improves indoor air quality
- Installation labor reduced, requires only a power outlet and 24 volt wiring to HVAC system

When properly installed and set, the AprilAire Ventilating Dehumidifier will meet the mechanical ventilation requirements of:

- ASHRAE 62.2
- Energy Star Certified Homes
- EPA Indoor airPLUS
- International Residential Code (IRC)

Fresh Air Ventilator

With Powered Damper & Filter

Model 8145A/8145NC | Specification Sheet

FEATURES

- Control is integrated into the Model 8145 Ventilator. The Model 8145NC has no integrated control so the ventilator can be hardwired to the HVAC system and controlled from within the living space
- High and low outdoor temperature limit lock-outs while maintaining ASHRAE Standard 62.2 (Model 8145 only)
- High and low indoor relative humidity (RH) limits can be set on the controller (Model 8145 only)
- Patented logic adjusts on-time and cycle time to meet ventilation requirements within set temperature and ranges (Model 8145 only)*
- Integrated powered damper and removable, washable MERV 6 filter. Replacement MERV 13 filter available

SPECIFICATIONS	
Overall Dimensions	12 ¼" W x 11 ¾" H x 23 ⅜" L
Weight	15 lbs
Inlet Collar	6" Round
Outlet Collar	6" Oval
Ventilation Setting	Off, 6-60 min/hr Code/Comfort Operation
Ambient Temperature	0ºF - 140ºF
Outdoor Temperature Limits	Low: -10ºF - 40ºF High: 85ºF - 105ºF
Indoor RH Limits	Low: 10 - 30% High: 45 - 70%
Voltage	115 VAC, 1 phase, 60 Hz
Power	Includes 6' power cord
Ducting	6" dia. flexible insulated duct



8145



8145NC

Most Efficient 2024 www.energystar.gov

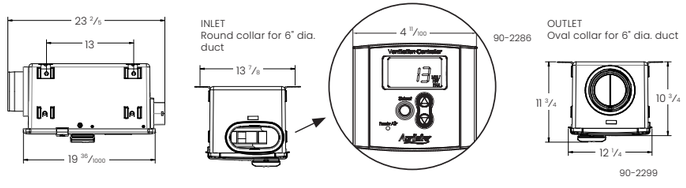
BENEFITS

- Reduces the amount of viruses and contaminants in indoor air by brining in fresh outdoor air
- Lightweight design, snap-on mounting brackets make install quick and easy
- Durable construction withstands jobsite abuse
- Delivers the precise amount of outside air needed in today's efficiently designed homes
- Model 8145 optimizes energy savings by locking out ventilation during hottest/coldest times of the day
- Robust design handles hot attics up to 140ºF
- Installation labor reduced, requires only a switched outlet and 24 volt wiring to HVAC system
- Furnace or air handler does not require an ECM motor to meet efficacy requirement

When properly installed and set, the AprilAire Model 8145 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

*Pat. No. 9,874,366. Applies to all controls listed below.
**8145NC 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.



Fresh Air Ventilator

For Multi-Family Applications

Model 8144NC | Specification Sheet

FEATURES

- Designed for use in continuous airflow applications up to 130 CFM
- Unit is designed, when properly installed, to achieve ASHRAE Standard 62.2
- Complies with IECC
- Integrated powered damper
- Removable, washable filter

SPECIFICATIONS	
Overall dimensions	10 ¼" W x 19 ⅛" H x 10 ¼" D
Inlet collar	6" Round
Outlet collar	6" Oval
Ambient temperature	0ºF-160ºF
Voltage, phase, frequency	115 VAC, 1, 60 Hz
Power	Hardwired
Ducting	6" diameter flexible insulated duct
Warranty	5 Years
ETL	Tested to UL Standard 705 Power ventilators not for outdoor use

5 YEAR WARRANTY

Designed & Assembled in the USA utilizing U.S. and Global Components



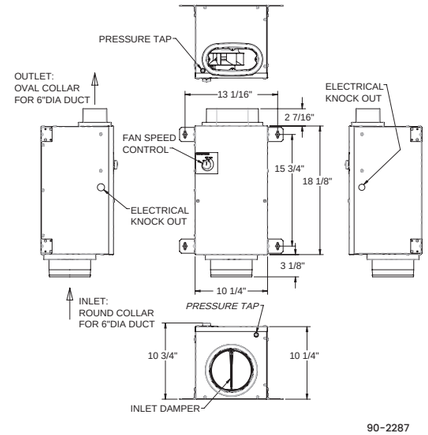
Most Efficient 2024 www.energystar.gov

BENEFITS

- The precise amount of outside air is delivered to the dwelling
- Improves indoor air quality
- Robust design handles hot attics up to 160ºF
- Installation labor reduced versus installing components separately
- Furnace or air handler does not require an ECM motor to meet efficacy requirement

When properly installed and set, the AprilAire Model 8144NC Fresh Air Ventilator will meet the mechanical ventilation requirements of:

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



Fresh Air Ventilators

With Backdraft Damper, No Filter

Model 8142A | Specification Sheet

FEATURES

- Unit is designed, when properly installed, to achieve ASHRAE Standard 62.2
- Operates a minimum of one hour out of every four to meet IRC requirements
- Complies with IECC (2.8 cfm/watt)
- Control is integrated into the ventilator
- High and Low Temperature Limit Lock-outs while maintaining ASHRAE Standard 62.2
- Simple plug-in installation
- Installation temperature range up to 160ºF

SPECIFICATIONS

Overall Dimensions	6 3/5" H x 13 1/16" W x 13 2/5" L including control
Inlet Collar	6" Round
Outlet Collar	6" Oval
Ventilation Setting	Off, 15-60 minutes, (5 min increments), Test/Reset
Ambient Temperature	0ºF - 160ºF
Outdoor Temperature Limits	Setting "A", no limit, time only "B", 105ºF high limit, 20ºF low limit "C", 100ºF high limit, 30ºF low limit "D", 95ºF high limit, 40ºF low limit
Voltage	115VAC, 1 phase, 60 Hz
Power	Includes 5' power cord with 3 prong plug
Ducting	6" diameter flexible insulated duct
Warranty	5 Years
ETL	Tested to UL Standard 705 – Power Ventilators Not For Outdoor Use



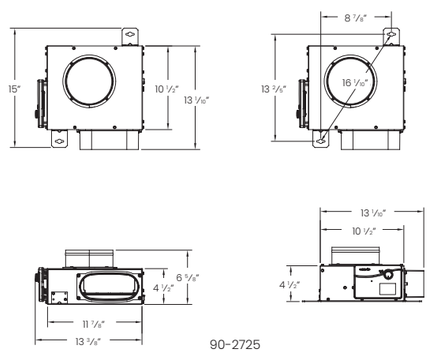
BENEFITS

- The precise amount of outside air needed in today's efficiently designed homes is delivered
- Optimize energy savings by locking out ventilation during hottest/coldest times of the day
- Improves indoor air quality
- Installation labor reduced, requires only a switched outlet and 24 volt wiring to HVAC system
- Furnace or air handler does not require an ECM motor to meet efficacy requirement

When properly installed and set, the AprilAire Model 8142A Fresh Air Ventilator will meet the mechanical ventilation requirements of:

- Energy Star Certified Homes, Version 3
- EPA Indoor airPLUS, Version 1
- International Residential Code (IRC)
- International Energy Conservation Code (IECC)
- California Energy Commission Title 24

Figure 1 - Overall Dimensions (inches) Model 8142A



90-2725

5 YEAR WARRANTY

Designed & Assembled in the USA utilizing U.S. and Global Components

Ventilation Controller

Model 8120X | Specification Sheet

FEATURES

- Easy-to-read LCD screen
- Simple setup with three-button interface
- Can be set for Code or Comfort (factory default setting)
- 24-volt control
- Measures outdoor temperature to stop ventilation at adjustable high and low outdoor temperature lockouts
- Measures indoor humidity to stop ventilation at adjustable high and low humidity lockouts*
- Patented control programming maintains ASHRAE 62.2 even during high and low temperature limit lockouts
- Installation flexibility—ability to override humidity and temperature control
- Easy access to rater information (amount of CFM brought into the home, etc.)
- Duct board bracket included for accurate indoor humidity sensing

*Pat. no. 9,874,366

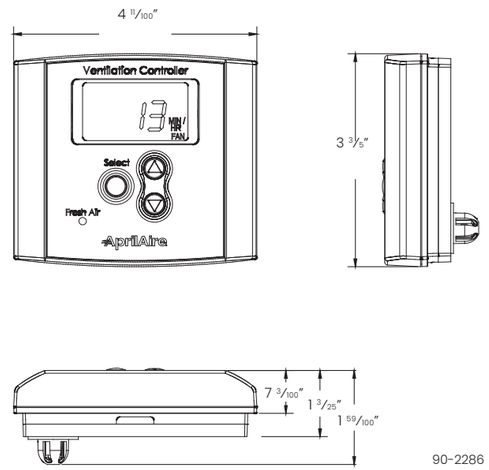
SPECIFICATIONS

Overall controller dimensions	4 11/100" W x 3 3/5" H x 1 59/100" D
Duct opening dimensions (for humidity sensor)	5/8" dia. in sheet metal, 5 3/4" X 5 1/4" for duct board (duct board bracket included)
Input power for the control (from the HVAC system transformer)	24VAC, 2VA
Damper output (Vent and GH)	10VA @ 30VAC max
Input voltage	18-30VAC
Controller power consumption	2.0VA
HVAC equipment terminals	R, C, W, Y, O, GS, GH
Equipment compatibility	Furnace and AC or Heat Pump
Outdoor temperature sensor inputs	Thermistor (provided)
Compliance	ASHRAE 62.2
Installation temp limits	20ºF-140ºF



BENEFITS

- Designed to meet ventilation requirements. Conforms to latest building and energy codes
- Easy to install and set up, saving you time and money
- Increased customer comfort and energy savings over other economical ventilation options
- Flexible setup allows you to meet every application



90-2286

5 YEAR WARRANTY

Designed & Assembled in the USA utilizing U.S. and Global Components

Ventilation System

Model 8126X | Specification Sheet

FEATURES

- Includes 8120X ventilation controller, damper, 24VAC transformer, outdoor temperature sensor and duct board bracket for 8120X
- Can be set for Code or Comfort (factory default setting)
- Measures outdoor temperature to stop ventilation at adjustable high and low outdoor temperature lockouts
- Measures indoor humidity to stop ventilation at adjustable high and low humidity lockouts
- Patented control programming maintains ASHRAE 62.2-2010 even during high and low temperature limit lockouts*
- Damper designed to be left in ductwork if actuator fails
- Installation flexibility—ability to override humidity and temperature control
- Easy access to rater information (amount of CFM brought into the home, etc.)

*Pat. no. 9,874,366

SPECIFICATIONS

Overall controller dimensions	4 11/100" W x 3 3/5" H x 1 59/100" D
Duct opening dimensions (for humidity sensor)	5/8" dia. in sheet metal, 5 3/4" X 5 1/4" for duct board (duct board bracket included)
Input power for the control (from the HVAC system transformer)	24VAC, 2VA
Damper (vent) and GH outputs	10VA @ 30VAC max
HVAC equipment terminals	R, C, W, Y, O, GS, GH
Equipment compatibility	Furnace and AC or Heat Pump
Outdoor temperature sensor inputs	Thermistor (provided)
Damper transformer (provided)	24VAC, 10VA
Compliance	ASHRAE 62.2-2010
Installation temp limits	20°F-140°F
Damper size	6" dia.
Overall damper dimensions (with actuator)	10 3/4" H x 10 8/25" dia.
Max static pressure	1" w.c.
Max system velocity	1000 ft/min
Total power consumption	10VA (6 watts)

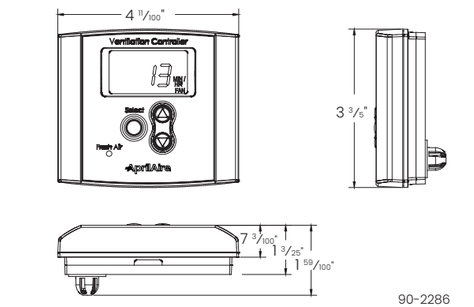
5 YEAR WARRANTY

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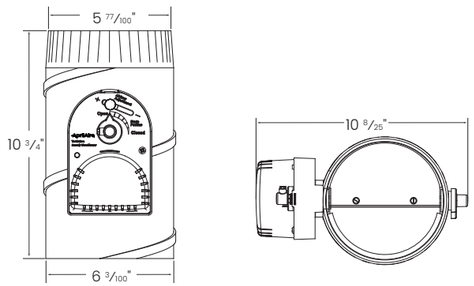


BENEFITS

- Designed to meet ventilation requirements. Conforms to latest building and energy codes.
- Easy to install and set up, saving you time and money
- Increased customer comfort and energy savings over other economical ventilation options
- Flexible setup allows you to meet every application



90-2286



90-2159

Kitchen Ventilation Kits

Model KV08, KV10 | Specification Sheet

FEATURES

- 2-wire connection on damper (see wiring diagram on back)
- Pressure switch monitors active air flow in the range hood's exhaust without the need to disconnect its wiring.

Kit comes with:

- Normally Closed/Power Open Damper

  KV08 – 8" round
  KV10 – 10" round
- 24VAC, 10VA transformer
- Pressure Sensing Switch with Probe and Mounting Hardware

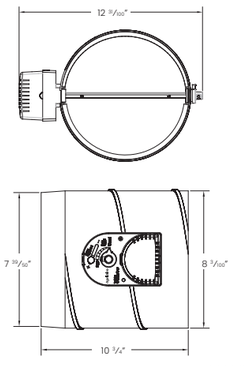
TYPICAL AIRFLOW THROUGH MAKE-UP AIR DUCT

Available Negative Pressure		Make Up Airflow (CFM)	
"wc.	Pa	KV08 (8")	KV10 (10")
-0.02	-5	55	115
-0.04	-10	75	160
-0.06	-15	95	195
-0.08	-20	110	235
-0.10	-25	125	265
-0.20	-50	185	390
-0.30	-75	225	490
-0.40	-100	260	565
-0.50	-125	295	640
-0.60	-150	320	705



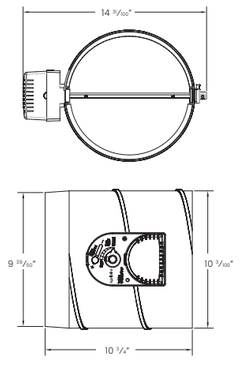
The AprilAire KV08 and KV10 Kitchen Ventilation Kits are designed to locally provide make-up air to areas when high-CFM range hoods are in use to prevent home depressurization and its consequences. When the range hood's fan is operating, a normally closed damper – 8" or 10" round – is powered open to allow make-up air to be drawn into the home. When the hood's fan is off, the damper is closed, preventing air from entering the home. The vent kit can also be tied into a HVAC system.

KV08 – 8" ROUND



90-2358

KV10 – 10" ROUND



90-2358

5 YEAR WARRANTY

Designed & Assembled in the USA
utilizing U.S. and Global Components

Energy Recovery Ventilator (ERV)

Model V22BEC | Specification Sheet

FEATURES

- Whole-home fresh air delivery with energy recovery.
- Energy recovery ventilation: can help improve overall home-energy performance and lower HERs score.
- Templated bracket: Simple, fast one-person install for wall, ceiling and floors.
- Continuous control standard with push button fan speed.
- CFM up to 120 cfm
- Intermittent control with patented temperature and humidity lockouts available with 8120X control or AprilAire Thermostats.

SPECIFICATIONS

SRE	72%
ASRE	74%
Airflow	118 cfm @ 0.30 in. w.c. external ductwork resistance, i.e. 240 equivalent feet for each of the “fresh” and “stale” air streams.
Efficacy	1.45 cfm/watt @ 0.2 in. w.c. (at maximum fan setting)
Electrical	120VAC, 1.3A. Unit equipped with 4ft. Grounded power cord.
Filters	2x Washable Foam Air Filters
Mounting Configurations	Ceiling, Wall, and Floor Mounting Capable
Unit Weight	50 lbs.

5 YEAR WARRANTY

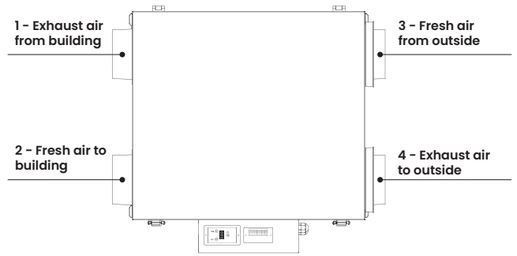


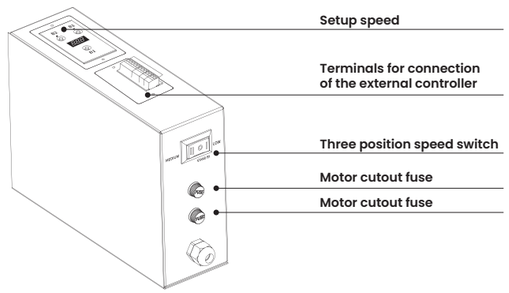
BENEFITS

- Replace stale, indoor air with fresh outdoor air from a known location.
- Reduce costs associated with ventilation by recovering conditioned air when ventilating.
- Protect comfort by tempering incoming ventilation air.
- Reduce heating and cooling loads by managing temperature and humidity of incoming air.

When properly installed and set, the AprilAire Model V22BEC will meet the mechanical ventilation requirements of:

- IECC 2021
- IRC 2021
- IMC 2021
- ASHRAE standard 62.2







AprilAire®



Humidity Control



Air Cleaning



Control & Zoning

HEALTHY AIR SYSTEM®



UVC Sanitize



Fresh Air



Radon Control

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