

**AprilAire**  
PARTNERS

# All Product Guide

Quick Reference | December 2022

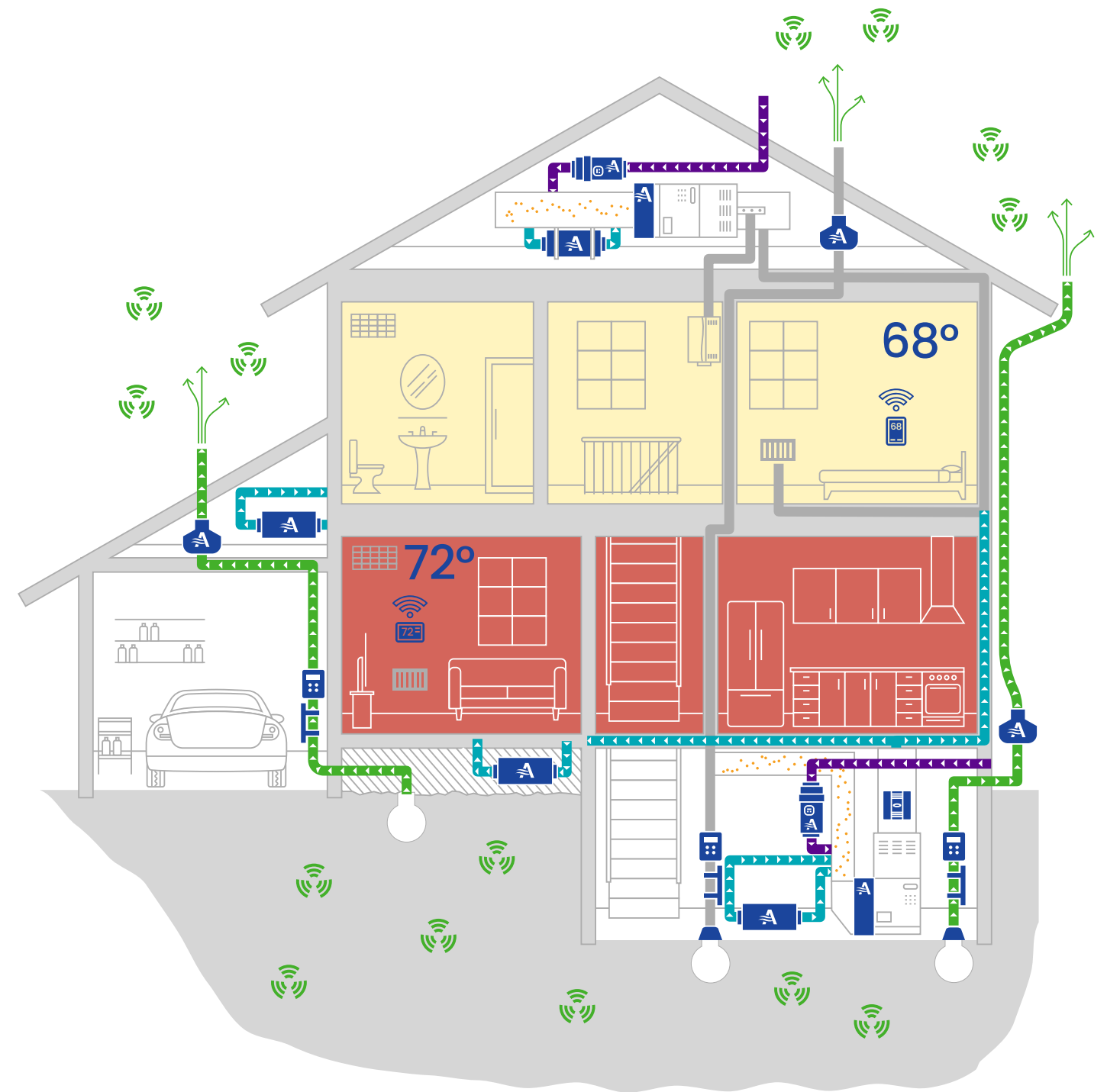


Healthy Air in every home.



# AprilAire Healthy Air Solutions

Radon Mitigation. Air Filtration. Fresh Air Ventilation. Dehumidification, Humidification, Zoning, Thermostats, Controls.



- Radon
- Ventilated air
- Humid air
- Unfiltered air
- Dry air
- Temperature controlled spaces

## 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 on all installed products



Designed & Assembled in the USA

utilizing U.S. and Global Components



# Mitigation Fans

AprilAire Radon Mitigation Fans are specifically designed for radon mitigation. AprilAire Fans provide superb performance and run ultra-quiet.

## Features

- Energy efficient
- Ultra-quiet operation
- Meets all electrical code requirements
- Housing that stays white
- Water-hardened motorized impeller
- Seams sealed to inhibit radon leakage (ARN15F/ARN25F double snap sealed)
- ETL Listed - for indoor or outdoor use
- Thermally protected motor
- Rated for commercial and residential use
- Patent pending design
- Optimal for moderate to tight soils (ARNHPF Only)
- Technology to inhibit radon and soil gas leakage
- ETL listed by Intertek to UL507 and CSA C22.2 Standards



| MODEL  | FAN DUCT DIAMETER | WATTS  | RECOMMENDED MAXIMUM OPERATING PRESSURE " WC | TYPICAL CFM vs. STATIC PRESSURE WC |      |      |      |      |      |      |      |      |      |
|--------|-------------------|--------|---|------------------------------------|------|------|------|------|------|------|------|------|------|
|        |                   |        |   | 0"                                 | 0.2" | 0.5" | 1.0" | 1.5" | 2.0" | 2.5" | 3.0" | 3.5" | 4.0" |
| ARN15F | 4"                | 41-72  | 1.7   | 166                                | -    | 126  | 82   | 41   | 3    | -    | -    | -    | -    |
| ARN25F | 6"                | 70-170 | 2.3   | 375                                | 340  | 282  | 204  | 140  | 70   | -    | -    | -    | -    |
| ARNHPF | 3"                | 70-170 | 4.0   | -                                  | 110  | -    | 97   | 88   | 79   | 68   | 54   | 36   | 14   |








# Mitigation Kits

Kits include: fan, manometer, couplings, and radon system alarm.



|                                | ARN15K                  | ARN25K                      | ARNHPK                 |
|--------------------------------|-------------------------|-----------------------------|------------------------|
| <b>Application</b>             | Slab size <1500 sq. ft. | Slab size 1500-2500 sq. ft. | Moderate to Tight Soil |
| <b>RRNC 2.0 Radon Fan Type</b> | RF1, RF2                | -                           | -                      |
| <b>Dimensions DxH</b>          | 9.7" x 8.5"             | 11.75" x 8.6"               | 11.9" x 10.9"          |
| <b>Color</b>                   | White                   | White                       | White                  |
| <b>Fan Duct Diameter</b>       | 4"                      | 6"                          | 3"                     |
| <b>Pressure</b>                | 1.7" WC                 | 2.3" WC                     | 4.0" WC                |

## Radon Accessories

| ACCESSORY   | DESCRIPTION   |
|---|---|
|  <b>Manometer P/N ARN05M</b>             | Mounts to the outside of PVC pipe on a radon mitigation system and measures vacuum pressure in real time, helping to indicate potential issues with the fan. It can serve as a secondary indicator that vacuum pressure has changed in the event of a system alarm going off, helping to confirm that it's not a false alarm. |
|  <b>Transition Fitting P/N ARNTF4</b>    | Consolidates the number of fittings needed in outdoor radon mitigation system installations. Connects a 4" fan pipe to a 4" exhaust pipe with a weir (not included) for capturing and draining condensate. Weir is included in the Condensate Bypass Kit.   |
|  <b>Condensate Bypass Kit P/N ARNCBK</b> | This kit is designed to drain condensation around the fan in outdoor installs.  |
|  <b>Radon-T Fitting P/N ARNSIT</b>       | Designed for use in adding radon mitigation to new construction and crawl spaces. Provides 4-way airflow, allowing moisture and soil gases to be drawn from all angles.   |
|  <b>System Alarm P/N ARNALM</b>          | Advanced vacuum monitoring device utilizing piezoresistive pressure sensor (PPS) technology. It provides homeowners with an easy-to-read, easy-to-use system alarm that requires no interpretation.   |



# Humidity Control

Humidifiers—Part of the AprilAire Healthy Air System.

| HUMIDIFIERS           | TYPE OF HUMIDIFICATION  | UNIT SIZE<br>WIDTH X HEIGHT X DEPTH   | PLENUM<br>OPENING           | CAPACITY<br>GPD=GALLONS<br>PER DAY | ELECTRICAL<br>DATA      | WATER<br>PANEL/<br>CANISTER |
|-----------------------|---|---|-----------------------------|------------------------------------|-------------------------|-----------------------------|
| <br>#800*<br>#801***  | <b>Steam</b><br>For larger homes and applications when evaporative units are less practical (attics, crawl spaces, closets, milder winter climates, non-forced air-heating source). | 10 1/8" x 20 7/8" x 7 1/8"  | -                           | 11.5 GPD                           | 120VAC<br>60HZ<br>11.5A | 80 <sup>††</sup>            |
|                       |   |   |                             | 16.0 GPD                           | 120VAC<br>60HZ<br>16.0A |                             |
|                       |   |   |                             | 20.5 GPD                           | 208VAC<br>60HZ<br>11.5A |                             |
| <br>#865**<br>#866*** | <b>Ductless Steam</b><br>Includes the Model 800, Fan Pack, Model 65 Control and Model 4028 Drain Trap. For homes without forced-air heating systems.                                | Fan Pack:<br>14" x 6 29/32" x 3 15/16"<br>Finished Grille:<br>16 3/16" x 9" x 1 3/32" | -                           | 30.0 GPD                           | 208VAC<br>60HZ<br>16.0A |                             |
|                       |   |   |                             | 23.3 GPD                           | 240VAC<br>60HZ<br>11.5A |                             |
|                       |   |   |                             | 34.6 GPD                           | 240VAC<br>60HZ<br>16.0A |                             |
| <br>#700*<br>#700M**  | <b>Fan Powered Evaporative</b><br>Built-in fan that pulls heated air directly from the furnace.   | 15 29/32" x 18" x 10 11/32"   | W: 14 3/4"<br>H: 14 31/100" | 18 GPD                             | 120VAC<br>60HZ<br>0.8A  | 35                          |
| <br>#600*<br>#600M**  | <b>Large Bypass Evaporative</b><br>Uses the furnace blower to move air through a Water Panel®.  | 15 3/8" x 15 3/4" x 10 1/4"<br>6" dia. round opening                                  | W: 10"<br>H: 12 3/4"        | 17 GPD                             | 24VAC<br>60HZ<br>0.5A   | 35                          |
| <br>#500*<br>#500M**  | <b>Small Bypass Evaporative</b><br>Designed for smaller homes   | 15 5/8" x 13" x 10 1/4"<br>6" dia. round opening                                      | W: 9 1/2"<br>H: 9 1/2"      | 12 GPD                             | 24VAC<br>60HZ<br>0.5A   | 10                          |
| <br>#400*<br>#400M**  | <b>Water Saver Bypass Evaporative</b><br>Uses 100% of water and evaporative technology that eliminates the need for a drain. Conserves Water.                                       | 15 3/8" x 15 3/4" x 10 1/4"*<br>6" dia. round opening<br>See note on heat pumps†      | W: 10"<br>H: 12 3/4"        | 17 GPD                             | 24VAC<br>60HZ<br>0.5A   | 45                          |
| <br>#300              | <b>Self-Contained Evaporative</b><br>For boilers, mini-splits, radiant heat and ductless systems.   | 14 3/8" x 12 1/2" x 22 3/32"  | -                           | 13 GPD                             | 120V 60HZ<br>0.7 AMP    | 35                          |



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

| HUMIDIFIER SIZING GUIDELINES GPD NEEDED PER SQUARE FOOT‡ BASED ON BUILDING STRUCTURE TIGHTNESS |  |          |          |          |          |          |          |
|--|--|----------|----------|----------|----------|----------|----------|
| STRUCTURE TIGHTNESS  | VOLUME OF BUILDING (FT³)                     |          |          |          |          |          |          |
|  | 8000   | 12000    | 16000    | 20000    | 24000    | 32000    | 40000    |
|  | BUILDING FLOOR AREA (FT²) WITH 8 FT CEILINGS |          |          |          |          |          |          |
|  | 1000 Ft²                                     | 1500 Ft² | 2000 Ft² | 2500 Ft² | 3000 Ft² | 4000 Ft² | 5000 Ft² |
| <b>Tight</b>   | 3.3 GPD                                      | 5.0 GPD  | 6.7 GPD  | 8.3 GPD  | 10.0 GPD | 13.4 GPD | 16.7 GPD |
| <b>Average</b>   | 6.7 GPD                                      | 10.0 GPD | 13.4 GPD | 16.7 GPD | 20.0 GPD | 26.7 GPD | 33.4 GPD |
| <b>Loose</b>   | 10.0 GPD                                     | 15.0 GPD | 20.0 GPD | 25.0 GPD | 30.1 GPD | 40.1 GPD | 50.1 GPD |

\* Automatic Digital Control (shown)  
 \*\* Manual Control - For those rare occurrences where an automatic control is not practical, AprilAire offers the same great humidifiers with a manual control.  
 \*\*\* 801 & 866 Modulating Steam Humidifier - For precise RH control. Controls are sold separately.  
 † Heat Pumps - Model 400 can be installed in heat pump applications. However, due to the fact that heat pumps deliver lower temperature air to the home than gas furnaces, evaporation will be approximately 60% of rated capacity. (With other AprilAire models, hot water can be used instead of cold to maximize evaporation. However, due to the nature of the wicking water panel in Model 400, hot water provides less benefits.) As such, your dealer will need to take the size and age of your home into consideration to ensure the Model 400 will provide satisfactory comfort and protection through adequate humidification.

†† Model 800LC available with 80LC canister for less conductive water 75-300µS/cm and 120VAC applications.  
 ‡ GPD = Gallons Per Day, as recommended by AHRI (Air Conditioning, Heating and Refrigeration Institute), Guideline F  
 A family of 4 will add 2 gallons of humidity per day through everyday activities like breathing, cooking, bathing and washing. Evaporative capacities assume blower is active 100% of the time, plenum temperature is at 120°F and water is cold.  
 Bypass Humidifiers - Can be installed on the supply or return plenum.  
 Water Usage Rate - Model 300 is 6 gph (gph=gallons per hour); Models 500, 600 and 700 are 3 gph; Model 400 is 0.7 gph; Model 800 is 0.6 to 1.8 gph depending on voltage, amp draw and water quality.

# Regional Humidifier Applications

AprilAire humidifiers can be installed on many different types of HVAC equipment. This application guide is to assist in the selection of the appropriate AprilAire product based upon geography and heating equipment.

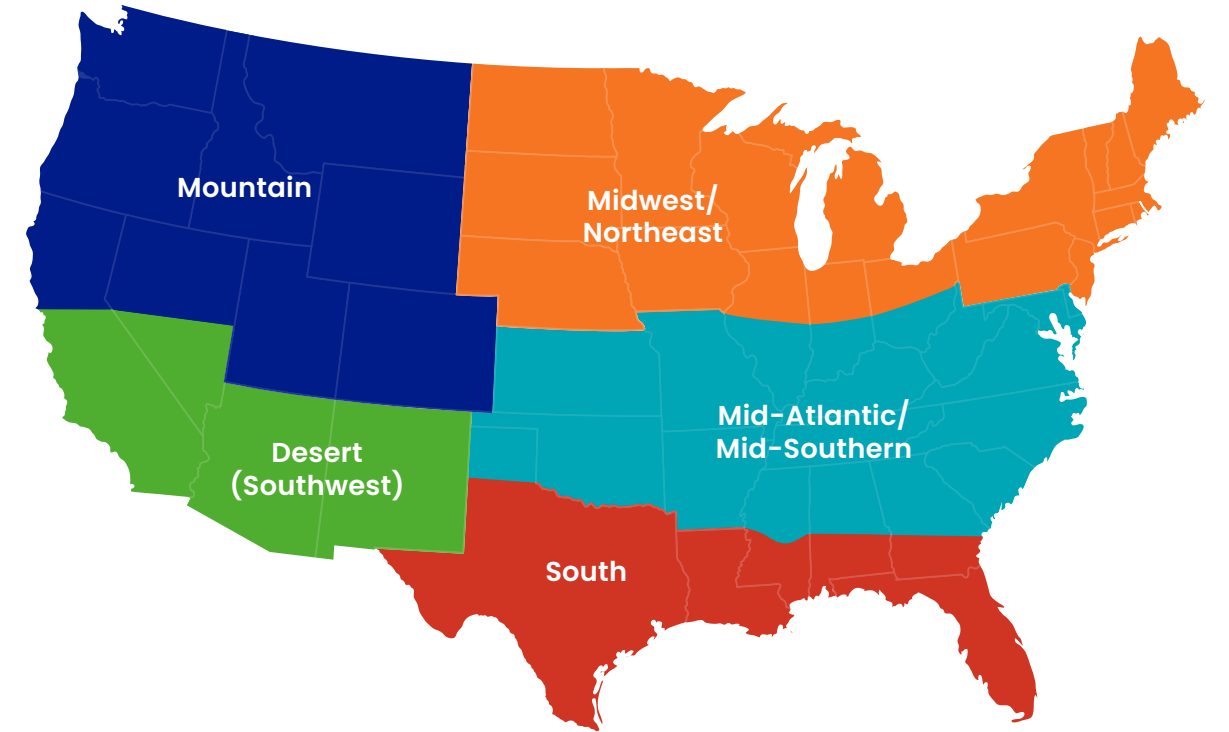
It's important to consider the plenum temperature, air flow (fan speed) and run time (heat call primary, fan only call secondary) when selecting products.

Automatic humidity controls have an integrated blower

activation feature, which is factory set to 'ON'. It will turn on the humidifier and the HVAC blower for humidification without a heat call. It will increase the run time and effectiveness of the humidifier.

Installations with a manual humidifier control can increase capacity by turning the thermostat fan to "ON".

When installing evaporative humidifiers, it's recommended they are plumbed to hot water.



| CLIMATE ZONE/RECOMMENDED APRILAIRE HUMIDIFIER SOLUTION BY MODEL |                      |                           |                      |                 |                    |
|---|----------------------|---------------------------|----------------------|-----------------|--------------------|
| EQUIPMENT   | MIDWEST/NORTHEAST    | MID-ATLANTIC/MID-SOUTHERN | MOUNTAIN             | SOUTH           | DESERT (SOUTHWEST) |
| Gas/Oil Furnace—Single Stage or Multi Stage*                    | 400/500/600/700/800  | 400/500/600/700/800       | 400/500/600/700/800  | 500/600/700/800 | 800                |
| Gas/Oil Modulating Furnace**                                    | 700/800              | 700/800                   | 700/800              | 700/800         | 800                |
| Heat Pump/Geo—Single Stage or Multi Stage*                      | 400†/500/600/700/800 | 400†/500/600/700/800      | 400†/500/600/700/800 | 500/600/700/800 | 800                |
| Heat Pump/Geo—Modulating**                                      | 700/800              | 700/800                   | 700/800              | 700/800         | 800                |
| Boiler With AHU (No Heat Source)                                | 800                  | 800                       | 800                  | 800             | 800                |
| Boiler With AHU and Hot Water Coil/ Hydro Air Unit              | 700/800              | 700/800                   | 800                  | 800             | 800                |
| Boiler  | 300/865              | 300/865                   | 300/865              | 300/865         | 300/865            |
| Electric Baseboard Heating                                      | 300/865              | 300/865                   | 300/865              | 300/865         | 300/865            |
| Humidifying with A/c Unit                                       | 800                  | 800                       | 800                  | 800             | 800                |

\*PSC, constant torque ECM

\*\*Variable speed ECM

†Evaporative performance of bypass humidifiers decreases with lower airflow volume and lower air temperature. Bypass models can be used in these applications if the HVAC system pressure differential between supply and return ducts is at least 0.08 in. wg and air temperature, hot water and continuous fan in the supply duct is at least 100°F.







# Humidity Control

Dehumidifiers – Part of the AprilAire Healthy Air System



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






| DEHUMIDIFIERS   | UNIT SIZE <sup>2</sup><br>WIDTH X HEIGHT X LENGTH | CAPACITY<br>PPD = PINTS PER DAY                  | AIRFLOW @ VARYING E.S.P.<br>(EXTERNAL STATIC PRESSURE - DRY COIL) | UNIT WEIGHT<br>LBS. |
|---|---|--|---|---------------------|
|  #E070  | 12½" x 12½" x 25"                                 | @80°F/60%RH<br>@73°F/60%RH<br>70 ppd<br>53 ppd   | 0.0" w.c. 200 CFM<br>0.2" w.c. 170 CFM<br>0.4" w.c. 140 CFM       | 56                  |
|  #E080<br>#E080H <sup>1</sup>                         | 14" x 15" x 26"                                   | @80°F/60%RH<br>@73°F/60%RH<br>80 ppd<br>65 ppd   | 0.0" w.c. 185 CFM<br>0.2" w.c. 135 CFM<br>0.4" w.c. 85 CFM        | 63                  |
|  #E100<br>#E100H <sup>1</sup><br>#E100C <sup>2</sup>  | 14" x 15" x 26"                                   | @80°F/60%RH<br>@73°F/60%RH<br>100 ppd<br>85 ppd  | 0.0" w.c. 280 CFM<br>0.2" w.c. 245 CFM<br>0.4" w.c. 210 CFM       | 64                  |
|  #E130<br>#E130H <sup>1</sup><br>#E130C <sup>2</sup> | 19½" x 18½" x 30"                                 | @80°F/60%RH<br>@73°F/60%RH<br>130 ppd<br>105 ppd | 0.0" w.c. 310 CFM<br>0.2" w.c. 270 CFM<br>0.4" w.c. 225 CFM       | 98                  |

<sup>1</sup>E080H, E100H and E130H are hardwired units <sup>2</sup>E100C and E130C are on casters



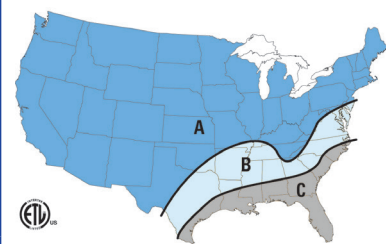
# Air Filtration

Air Cleaners – Part of the AprilAire Healthy Air System

| AIR CLEANERS  | NOMINAL SIZE<br>(IN INCHES) | CABINET SIZE                                       | SHIPPING WEIGHT<br>(LBS)      | INCLUDED FILTER | COMPATIBLE FILTERS* |
|---|-----------------------------|--|-------------------------------|-----------------|---------------------|
|    | 20 x 25                     | W: 6 ¾" H: 22 1/16" D: 27 3/8"                     | 20                            | MERV 16         | 213CBN, 213, 210    |
|   | 16 x 25                     | W: 6 ¾" H: 17 3/4" D: 30 1/16"                     | 19.25                         | 416             | 413CBN, 413, 410    |
|   | 31 x 28                     | W: 6 ¾" H: 31" D: 30 1/16"                         | 24.9                          | 516             | 513CBN, 513, 510    |
|    | 20 x 25                     | W: 6 ¾" H: 22 1/16" D: 27 3/8"                     | 19                            | MERV 13         | 216, 213CBN, 210    |
|   | 20 x 20                     | W: 6 ¾" H: 20 3/8" D: 22 1/16"                     | 17                            | 313             | 310                 |
|   | 16 x 25                     | W: 6 ¾" H: 17 3/4" D: 30 1/16"                     | 19                            | 413             | 416, 413CBN, 410    |
|    | 16 x 20                     | W: 6 ¾" H: 17 3/4" D: 22 1/16"                     | 13                            | MERV 11         | 113                 |
|   | 20 x 25                     | W: 6 ¾" H: 22 1/16" D: 27 3/8"                     | 20                            | 210             | 216, 213CBN, 213    |
|   | 20 x 20                     | W: 6 ¾" H: 20 3/8" D: 22 1/16"                     | 15                            | 310             | 313                 |
|   | 16 x 25                     | W: 6 ¾" H: 17 3/4" D: 30 1/16"                     | 19                            | 410             | 416, 413CBN, 413    |
|   | 31 x 28                     | W: 6 ¾" H: 31" D: 30 1/16"                         | 28                            | 510             | 516, 513CBN, 513    |
|   | 25 x 20                     | W: 6 ¾" H: 25 1/16" D: 22 1/16"                    | 18                            | 910             | 913                 |
|   | 16 x 25                     | W: 15 11/16" H: 17 13/16" D: 30 3/16"              | 31                            | 410             | 416, 413CBN, 413    |
|   | 20 x 25                     | W: 15 11/16" H: 22 1/8" D: 27 3/8"                 | 32.4                          | 210             | 216, 213CBN, 213    |
|  |                             |  | <b>ELECTRONIC AIR CLEANER</b> |                 |                     |
|   | 16 x 25                     | W: 12" H (front): 18 3/8" H (back): 17 3/4" D: 31" | 35                            | 501             |                     |

\* Included filter is always available as a replacement


## DEHUMIDIFIER SIZING GUIDELINES




The recommended home floor area (ft<sup>2</sup>) that each listed dehumidifier can dehumidify is to be used as sizing guidelines only. The actual home size is dependent on the exact location of the home, the actual total ventilation rate, occupant living habits, moisture removal characteristics of the air conditioning system and the environmental conditions at which the occupants experience comfort. Values are for the most humid locations within each region.

Provide on-demand sizing recommendations using the Dehumidifier Selection Assistant  
[AprilAirepartners.com/dsa](http://AprilAirepartners.com/dsa)


|                 | MODEL E080            |                       | MODEL E100            |                       | MODEL E130            |                       |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                 | LOOSE                 | TIGHT                 | LOOSE                 | TIGHT                 | LOOSE                 | TIGHT                 |
| <b>REGION A</b> | 3,200 Ft <sup>2</sup> | 4,400 Ft <sup>2</sup> | 4,000 Ft <sup>2</sup> | 5,500 Ft <sup>2</sup> | 5,200 Ft <sup>2</sup> | 7,200 Ft <sup>2</sup> |
| <b>REGION B</b> | 2,600 Ft <sup>2</sup> | 3,900 Ft <sup>2</sup> | 3,200 Ft <sup>2</sup> | 5,000 Ft <sup>2</sup> | 3,900 Ft <sup>2</sup> | 6,500 Ft <sup>2</sup> |
| <b>REGION C</b> | 1,600 Ft <sup>2</sup> | 2,300 Ft <sup>2</sup> | 2,000 Ft <sup>2</sup> | 3,000 Ft <sup>2</sup> | 2,300 Ft <sup>2</sup> | 3,600 Ft <sup>2</sup> |




**CAPTURE 98% OF AIRBORNE VIRUSES**



**REMOVES MOST COMMON ALLERGENS + ODORS**



**REMOVES MOST COMMON ALLERGENS**



**VACUUM & DUST LESS OFTEN**

\*Contaminants removed based on air passing through the filtering system.

- MERV 16 performance
- Captures up to 98% of virus-sized particles
- Low resistance
- Superior system protection
- Up to 6-month filter life
- MERV 13 performance plus odor reduction
- The most activated carbon added to any air filter
- Reduces noticeable odors caused by pets, cooking and common household VOCs
- Up to 6-month filter life
- MERV 13 performance
- Designed for homeowners with low-to-moderate allergy problems
- Low resistance
- Up to 1-year filter life
- MERV 11 performance
- Particulate removal, system protection and static pressure superior to 1" filters
- Vacuum and dust less often
- Up to 1-year filter life



# Air Filtration

Air Filters – Part of the AprilAire Healthy Air System

| FILTER NO.                 | STATIC PRESSURES AT VARIABLE CFM (IN. W.C.)* |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                            | 200  | 400  | 600  | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 |      |
| MERV 16<br>HEALTHY AIR 16  | 216  | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.29 | 0.36 |      |      |      |      |      |      |      |      |
|                            | 416  | 0.07 | 0.10 | 0.13 | 0.18 | 0.24 | 0.31 |      |      |      |      |      |      |      |      |      |
|                            | 516  | 0.04 | 0.05 | 0.07 | 0.09 | 0.10 | 0.13 | 0.15 | 0.18 | 0.21 | 0.24 | 0.27 | 0.31 |      |      |      |
| MERV 13<br>HEALTHY AIR 13  | 113  | 0.03 | 0.07 | 0.11 | 0.16 | 0.22 | 0.29 |      |      |      |      |      |      |      |      |      |
|                            | 213  | 0.02 | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.23 | 0.27 | 0.31 |      |      |      |      |      |
|                            | 313  | 0.03 | 0.05 | 0.09 | 0.13 | 0.17 | 0.23 |      |      |      |      |      |      |      |      |      |
|                            | 413  | 0.02 | 0.05 | 0.07 | 0.10 | 0.14 | 0.17 | 0.22 | 0.26 | 0.31 | 0.37 |      |      |      |      |      |
|                            | 513  | 0.01 | 0.02 | 0.04 | 0.05 | 0.05 | 0.07 | 0.08 | 0.10 | 0.11 | 0.13 | 0.15 | 0.17 | 0.18 | 0.20 | 0.23 |
|                            | 613  | 0.02 | 0.05 | 0.07 | 0.10 | 0.14 | 0.17 | 0.22 | 0.26 | 0.31 | 0.37 |      |      |      |      |      |
|                            | 813  | 0.02 | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.23 | 0.27 | 0.31 |      |      |      |      |      |
| MERV 13<br>HEALTHY AIR 13+ | 213CBN                                       | 0.04 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.35 |      |      |      |      |      |      |
|                            | 413CBN                                       | 0.04 | 0.07 | 0.10 | 0.14 | 0.19 | 0.24 | 0.29 | 0.36 | 0.43 |      |      |      |      |      |      |
|                            | 513CBN                                       | 0.03 | 0.04 | 0.05 | 0.07 | 0.08 | 0.10 | 0.12 | 0.15 | 0.17 | 0.20 | 0.22 | 0.25 | 0.29 | 0.32 |      |
| MERV 11<br>HEALTHY AIR 11  | 110  | 0.02 | 0.05 | 0.06 | 0.10 | 0.14 | 0.20 |      |      |      |      |      |      |      |      |      |
|                            | 210  | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 | 0.19 | 0.22 |      |      |      |      |      |
|                            | 310  | 0.02 | 0.04 | 0.06 | 0.10 | 0.14 | 0.19 |      |      |      |      |      |      |      |      |      |
|                            | 410  | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.19 | 0.22 | 0.27 |      |      |      |      |      |
|                            | 510  | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.19 |
|                            | 610  | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.19 | 0.22 | 0.27 |      |      |      |      |      |
|                            | 810  | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 | 0.19 | 0.22 |      |      |      |      |      |
|                            | 910  | -    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.18 | 0.22 | 0.27 |      |      |      |      |      |
| MERV 10                    | 201  | 0.02 | 0.04 | 0.05 | 0.08 | 0.10 | 0.12 | 0.15 | 0.18 | 0.21 | 0.25 |      |      |      |      |      |
|                            | 401  | 0.02 | 0.04 | 0.05 | 0.08 | 0.10 | 0.14 | 0.17 | 0.21 | 0.25 | 0.29 |      |      |      |      |      |
| EAC                        | 501  | 0.02 | 0.04 | 0.05 | 0.08 | 0.10 | 0.14 | 0.17 | 0.21 | 0.25 | 0.29 |      |      |      |      |      |

\*Highest value shown is maximum recommended airflow capacity.




# Air Filtration

Air Filters – Part of the AprilAire Healthy Air System

|            | REMOVAL EFFICIENCY (BASED ON PARTICLE SIZE) |                 |                  |
|------------|---|-----------------|------------------|
|            | 0.3–1.0 MICRONS                             | 1.0–3.0 MICRONS | 3.0–10.0 MICRONS |
|            | MERV 16                                     | 95%             | 98%              |
| MERV 13    | 63%   | 88%             | 93%              |
| MERV 11    | 37%   | 67%             | 92%              |
| MERV 10    | 22%   | 56%             | 92%              |
| EAC – 5000 | 89%   | 95%             | 98%              |

Test Method – MERV 10-16 –ASHRAE 52.2.2012, EAP – AHRI 680-2009

|         | UPGRADE KITS  | NOMINAL SIZE (IN INCHES) | COMPATIBLE WITH | INCLUDED FILTER              | RAILS MODEL NUMBER | STATIC PRESSURE DROP (IN. W.C.) @ 1200 CFM | MAXIMUM AIRFLOW CAPACITY (IN CFM) |      |
|---------|---|--------------------------|-----------------|------------------------------|--------------------|--|-----------------------------------|------|
| MERV 13 |  | #1213                    | 20 x 25         | AprilAire or Space-Gard 2200 | 213                | 4893                                       | 0.15                              | 2000 |
|         |   | #1413                    | 16 x 25         | AprilAire or Space-Gard 2400 | 413                | 4894                                       | 0.17                              | 2000 |

|   | UPGRADE RAILS | Nominal Size (in inches) | Compatible With              | Uses Filter Model | Maximum Airflow Capacity (in CFM) |
|---|---------------|--------------------------|------------------------------|-------------------|-----------------------------------|
|  | #4893         | 20x25                    | AprilAire or Space-Gard 2200 | 210, 213, 213CBN  | 2000                              |
|   | #4894         | 16x25                    | AprilAire or Space-Gard 2400 | 410, 413, 413CBN  | 2000                              |
|   | #4897         | 16x25                    | 16x25 Competitive Cabinets   | 610, 613          | 2000                              |
|   |               | 20x25                    | 20x25 Competitive Cabinets   | 810, 813          | 2000                              |
|   | #4898         | 16x20                    | 16x20 Competitive Cabinets   | 110, 113          | 1200                              |
|   |               | 20x20                    | 20x20 Competitive Cabinets   | 310, 313          | 1200                              |

| REPLACEMENT FILTERS |  |                                |  |                                   |      |
|---------------------|--|--------------------------------|--|-----------------------------------|------|
| FILTER NO.          | USED WITH APRILAIRE AIR CLEANER MODELS | NOMINAL SIZE (IN INCHES)       | STATIC PRESSURE DROP (IN. W.C.) @ 1200 CFM | MAXIMUM AIRFLOW CAPACITY (IN CFM) |      |
| MERV 10             | 201                                    | AprilAire or Space-Gard 2200** | 20 x 25                                    | 0.12                              | 2000 |
|                     | 401                                    | AprilAire or Space-Gard 2400** | 16 x 25                                    | 0.14                              | 2000 |

\*\*Air Cleaner models no longer available.



# Healthy Air Controls

Thermostats – Part of the AprilAire Healthy Air System

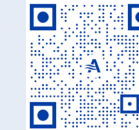


| RESIDENTIAL MODEL NUMBER STAGES | 8444 • 1H/1C<br>8446 • 2H/1C HP<br>8448 • 2H/2C, 4H/2C HP          | 8463 • 1H/1C<br>8465 • 2H/1C HP<br>8466 • 2H/2C, 4H/2C HP | S86NMU • 2H/2C, 4H/2C HP | S86NMUPR • 2H/2C, 4H/2C HP | S86WMUPR • 2H/2C, 4H/2C HP | 8910W**<br>8910 • 3H/3C, 4H/2C HP | 8920W** • 3H/3C, 4H/2C HP |
|---------------------------------|--|---|--------------------------|----------------------------|----------------------------|-----------------------------------|---------------------------|
| HOME AUTOMATION MODEL NO.       | -  | 8810  | -                        | -                          | S86WMUPR                   | -                                 | 8840                      |
| Dimensions (W x H x D)          | 5.25" x 4.5" x 1"  |   | 4.38" x 4.38" x 0.8"     |                            |                            | 6" x 4.85" x 1.25"                | 7.1" x 4.85" x 1"         |
| <b>Temperature Control</b>      | Easy to Read Display   | •   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Simple Setup   | •   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Displays Outdoor Temperature (if equipped)                         | •   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Adjustable Differential  | •   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Progressive Recovery   |   | •                        | •                          | •                          | •                                 | •                         |
| <b>Air Cleaning</b>             | Heat Blast   |   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Event-Based™ Air Cleaning  |   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Air Cleaning Notice  |   | •                        | •                          | •                          | •                                 | •                         |
| <b>Humidifier Control</b>       | Change Filter Alert  | •   | •                        | •                          | •                          | •                                 | •                         |
|                                 | Automatic or Manual Humidifier Control                             |   |                          |                            | •                          | •                                 | •                         |
|                                 | "Humidifier On" Notice   |   |                          |                            |                            | •                                 | •                         |
|                                 | Displays Indoor RH   |   |                          |                            | •                          | •                                 | •                         |
| <b>Dehumidifier Control</b>     | Energizes HVAC Blower for Humidity                                 |   |                          |                            | •                          | •                                 | •                         |
|                                 | Controls Humidifier with 24 VAC Dry Contact                        |   |                          |                            | •                          | •                                 | •                         |
|                                 | Controls Whole-Home Dehumidifier                                   |   |                          |                            | •                          | •                                 | •                         |
|                                 | Controls A/C Equipment for Dehumidification                        |   |                          |                            | •                          | •                                 | •                         |
| <b>Ventilation Control</b>      | Displays Indoor RH   |   |                          |                            | •                          | •                                 | •                         |
|                                 | "Dehumidifier On" Notice   |   |                          |                            |                            | •                                 | •                         |
|                                 | Energizes HVAC Blower for Dehumidification                         |   |                          |                            | •                          | •                                 | •                         |
|                                 | Controls Dehumidifier with 24 VAC Dry Contact                      |   |                          |                            | •                          | •                                 | •                         |
| <b>Product Configuration</b>    | Programmable for Timed Ventilation                                 |   |                          |                            | •                          | •                                 | •                         |
|                                 | Programmable for ASHRAE 62.2 Ventilation                           |   |                          |                            | •                          | •                                 | •                         |
|                                 | Configurable Temperature and Humidity Limits                       |   |                          |                            | •                          | •                                 | •                         |
| <b>Product Configuration</b>    | "Ventilation On" Notice  |   |                          |                            |                            | •                                 | •                         |
|                                 | Compatible with Wireless Indoor and Outdoor Temperature/RH sensors |   |                          |                            | •                          | •                                 | •                         |
|                                 | Controls Air Cleaner and Humid or Dehumid or Vent                  |   |                          |                            | •                          | •                                 | •                         |
|                                 | Controls Air Cleaner and Humid, Dehumid and Vent                   |   |                          |                            | •                          | •                                 | •                         |
| <b>Product Configuration</b>    | Wired Outdoor Temperature Sensor Included                          |   |                          |                            | •                          | •                                 | •                         |
|                                 | Two-Part Design – Only 3 Wires to the Living Space                 |   |                          |                            |                            | •                                 | •                         |

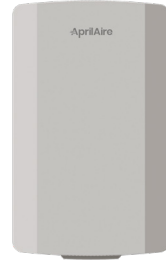
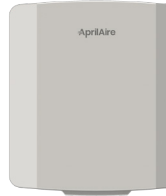
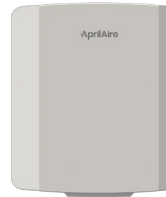
## Download the APP

The new and improved AprilAire Healthy Air App is here! The Healthy Air App is more intuitive and more reliable than ever before. We've upgraded the app's operating cloud to ensure better connection and operation.

Download Now:



## Zone Control Panels

| MODEL   | SPECIFICATIONS   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
|---|--|--|--|--|-----------------|-----------------------------|------------------------------|------------|-----------------------------|-------------|----------------|-------------------|
| <br><b>UNIVERSAL</b>         | 6404 – 4 Zone Universal Multistage (Can be expanded to 12 zones with Model 6401)<br>6403 – 3 Zone Universal Multistage<br>2 Heat 2 Cool or 4 Heat 2 Cool (Heat Pump)<br>Compatible with Model 8056 wireless outdoor sensor   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
|   | <table border="1"> <tr> <td><b>Overall Dimensions</b></td> <td>8 63/100" W x 14 18/25" H x 1 43/50" D</td> <td rowspan="4"><b>Maximum Current</b><br/>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire</td> </tr> <tr> <td><b>Humidity</b></td> <td>5%–90% RH, non-condensing</td> </tr> <tr> <td><b>Operating Temperature</b></td> <td>32°F–158°F</td> </tr> <tr> <td><b>Shipping Temperature</b></td> <td>–40°F–180°F</td> </tr> <tr> <td><b>Voltage</b></td> <td>18–30VAC 50/60 Hz</td> <td></td> </tr> </table>  | <b>Overall Dimensions</b>  | 8 63/100" W x 14 18/25" H x 1 43/50" D | <b>Maximum Current</b><br>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire | <b>Humidity</b> | 5%–90% RH, non-condensing   | <b>Operating Temperature</b> | 32°F–158°F | <b>Shipping Temperature</b> | –40°F–180°F | <b>Voltage</b> | 18–30VAC 50/60 Hz |
| <b>Overall Dimensions</b>   | 8 63/100" W x 14 18/25" H x 1 43/50" D   | <b>Maximum Current</b><br>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Humidity</b>   | 5%–90% RH, non-condensing  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Operating Temperature</b>  | 32°F–158°F   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Shipping Temperature</b>   | –40°F–180°F  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Voltage</b>  | 18–30VAC 50/60 Hz  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>ZONED COMFORT CONTROL™ KITS** AVAILABLE: 6404K &amp; 6403K</b>   |  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <br><b>HEAT PUMP ONLY</b>    | 6303 – 3 Zone Heat Pump<br>6302 – 2 Zone Heat Pump<br>2 Heat 1 Cool Single Stage   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
|   | <table border="1"> <tr> <td><b>Overall Dimensions</b></td> <td>8 63/100" W x 9 33/50" H x 1 43/50" D</td> <td rowspan="4"><b>Maximum Current</b><br/>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire</td> </tr> <tr> <td><b>Humidity</b></td> <td>5% – 90% RH, non-condensing</td> </tr> <tr> <td><b>Operating Temperature</b></td> <td>32°F–158°F</td> </tr> <tr> <td><b>Shipping Temperature</b></td> <td>–40°F–180°F</td> </tr> <tr> <td><b>Voltage</b></td> <td>18–30VAC 50/60 Hz</td> <td></td> </tr> </table> | <b>Overall Dimensions</b>  | 8 63/100" W x 9 33/50" H x 1 43/50" D  | <b>Maximum Current</b><br>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire | <b>Humidity</b> | 5% – 90% RH, non-condensing | <b>Operating Temperature</b> | 32°F–158°F | <b>Shipping Temperature</b> | –40°F–180°F | <b>Voltage</b> | 18–30VAC 50/60 Hz |
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| <b>Humidity</b>   | 5% – 90% RH, non-condensing  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Operating Temperature</b>  | 32°F–158°F   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Shipping Temperature</b>   | –40°F–180°F  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Voltage</b>  | 18–30VAC 50/60 Hz  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>ZONED COMFORT CONTROL™ KITS** AVAILABLE: 6303K &amp; 6302K</b>   |  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <br><b>CONVENTIONAL ONLY</b> | 6203 – 3 Zone Heat/Cool<br>6202 – 2 Zone Heat/Cool<br>1 Heat 1 Cool Single Stage   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
|   | <table border="1"> <tr> <td><b>Overall Dimensions</b></td> <td>8 63/100" W x 9 33/50" H x 1 43/50" D</td> <td rowspan="4"><b>Maximum Current</b><br/>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire</td> </tr> <tr> <td><b>Humidity</b></td> <td>5%–90% RH, non-condensing</td> </tr> <tr> <td><b>Operating Temperature</b></td> <td>32°F–158°F</td> </tr> <tr> <td><b>Shipping Temperature</b></td> <td>–40°F–180°F</td> </tr> <tr> <td><b>Voltage</b></td> <td>18–30VAC 50/60 Hz</td> <td></td> </tr> </table>   | <b>Overall Dimensions</b>  | 8 63/100" W x 9 33/50" H x 1 43/50" D  | <b>Maximum Current</b><br>Damper output per zone (fused): 18VA at 158°F, 30VA at 90°F zone panel and thermostats (fused): 18VA at 158°F, 30VA at 90°F zone panel consumption: 4VA max Note: Use 18 or 20 AWG solid (non-stranded) wire | <b>Humidity</b> | 5%–90% RH, non-condensing   | <b>Operating Temperature</b> | 32°F–158°F | <b>Shipping Temperature</b> | –40°F–180°F | <b>Voltage</b> | 18–30VAC 50/60 Hz |
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| <b>Humidity</b>   | 5%–90% RH, non-condensing  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Operating Temperature</b>  | 32°F–158°F   |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Shipping Temperature</b>   | –40°F–180°F  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>Voltage</b>  | 18–30VAC 50/60 Hz  |  |  |  |                 |                             |                              |            |                             |             |                |                   |
| <b>ZONED COMFORT CONTROL™ KITS** AVAILABLE: 6303K &amp; 6302K</b>   |  |  |  |  |                 |                             |                              |            |                             |             |                |                   |

\*\* Zoned Comfort Control Kits include: Zone panel, 6" duct probe and 24VAC 40VA universal transformer

# Zone Dampers



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

|   |                | RECTANGULAR DAMPER SIZE & STOCK NO.* |                |                |                |                |                |                |                |                |                |                |                |
|---|----------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|   |                | NOMINAL WIDTH (IN INCHES)            |                |                |                |                |                |                |                |                |                |                |                |
|   |                | 8"<br>(203MM)                        | 10"<br>(254MM) | 12"<br>(305MM) | 14"<br>(356MM) | 16"<br>(406MM) | 18"<br>(457MM) | 20"<br>(508MM) | 22"<br>(559MM) | 24"<br>(610MM) | 26"<br>(660MM) | 28"<br>(711MM) | 30"<br>(762MM) |
| <b>Side Mount</b><br>Motor mounted on short dimension<br>W3 indicates power open/<br>power closed | 8"<br>(203MM)  | 6721<br>6721W3                       | 6722<br>6722W3 | 6723<br>6723W3 | 6724<br>6724W3 | 6725<br>6725W3 | 6726<br>6726W3 | 6727<br>6727W3 | 6728<br>6728W3 | 6729<br>6729W3 | 6730<br>6730W3 | 6731<br>6731W3 | 6753<br>6753W3 |
|   | 10"<br>(254MM) |                                      | 6732<br>6732W3 | 6733<br>6733W3 | 6734<br>6734W3 | 6735<br>6735W3 | 6736<br>6736W3 | 6737<br>6737W3 | 6738<br>6738W3 | 6739<br>6739W3 | 6740<br>6740W3 | 6741<br>6741W3 | 6742<br>6742W3 |
|   | 12"<br>(305MM) |                                      |                | 6743<br>6743W3 | 6744<br>6744W3 | 6745<br>6745W3 | 6746<br>6746W3 | 6747<br>6747W3 | 6748<br>6748W3 | 6749<br>6749W3 | 6750           | 6751           | 6752           |
|   | 14"<br>(356MM) |                                      |                |                | 6754<br>6754W3 | 6755<br>6755W3 | 6756<br>6756W3 | 6757<br>6757W3 | 6758<br>6758W3 | 6759<br>6759W3 | 6760           | 6761           | 6762           |
|   | 16"<br>(406MM) |                                      |                |                |                | 6763<br>6763W3 | 6764           | 6765           | 6766           | 6767           | 6768           | 6769           | 6770           |
|   | 18"<br>(457MM) |                                      |                |                |                |                | 6771           | 6772           | 6773           | 6774           | 6775           | 6776           | 6777           |
|   | 20"<br>(508MM) |                                      |                |                |                |                |                | 6778           | 6779           | 6780           | 6781           | 6782           | 6783           |
|   | 22"<br>(559MM) |                                      |                |                |                |                |                |                | 6784           | 6785           | 6786           | 6787           | 6788           |
|   | 24"<br>(610MM) |                                      |                |                |                |                |                |                |                | 6789           | 6790           | 6791           | 6792           |
|   | 26"<br>(660MM) |                                      |                |                |                |                |                |                |                |                | 6793           | 6794           | 6795           |
| 28"<br>(711MM)  |                |                                      |                |                |                |                |                |                |                |                | 6796           | 6797           |                |
| 30"<br>(762MM)  |                |                                      |                |                |                |                |                |                |                |                |                | 6798           |                |
| <b>Bottom Mount</b><br>Motor mounted on long dimension  | 8"<br>(203MM)  | 6721<br>6721W3                       | 6812<br>6812W3 | 6813<br>6813W3 | 6814<br>6814W3 | 6815<br>6815W3 | 6816<br>6816W3 | 6817<br>6817W3 | 6818<br>6818W3 | 6819<br>6819W3 |                |                |                |
|   | 10"<br>(254MM) |                                      | 6732<br>6732W3 | 6823<br>6823W3 | 6824<br>6824W3 | 6825<br>6825W3 | 6826<br>6826W3 | 6827<br>6827W3 | 6828<br>6828W3 | 6829<br>6829W3 |                |                |                |
|   | 12"<br>(305MM) |                                      |                | 6743<br>6743W3 | 6834<br>6834W3 | 6835<br>6835W3 | 6836<br>6836W3 | 6837<br>6837W3 | 6838<br>6838W3 | 6839<br>6839W3 |                |                |                |

\* Rectangular Damper Dimension = Nominal width + 3.5"

† 10 day lead time for shaded items

# Zone Dampers



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

|  | ROUND DAMPER SIZE & STOCK NO.*        |                                       |                                       |  |  |                |  |                |                |                |                |                |
|--|---------------------------------------|---------------------------------------|---------------------------------------|--|--|----------------|--|----------------|----------------|----------------|----------------|----------------|
|  | NOMINAL DIAMETER (IN INCHES)          |                                       |                                       |  |  |                |  |                |                |                |                |                |
|  | 4"<br>(102MM)                         | 5"<br>(127MM)                         | 6"<br>(152MM)                         | 7"<br>(178MM)                          | 8"<br>(203MM)                          | 9"<br>(229MM)  | 10"<br>(254MM)                         | 12"<br>(305MM) | 14"<br>(356MM) | 16"<br>(406MM) | 18"<br>(457MM) | 20"<br>(508MM) |
| <p><b>Zone Damper</b><br/>(Normally open/<br/>power closed)<br/>W3 indicates power<br/>open/power closed</p> |                                       |                                       | 6606<br>6606W3                        | 6607<br>6607W3                         | 6608<br>6608W3                         | 6609<br>6609W3 | 6610<br>6610W3                         | 6612<br>6612W3 | 6614<br>6614W3 | 6616<br>6616W3 | 6618           | 6620           |
|  |                                       |                                       |                                       |  |  |                |  |                |                |                |                |                |
| <p><b>Ventilation Damper</b><br/>(Normally closed/<br/>power opened)</p>                                     |                                       |                                       | 6506                                  |  | 6508                                   |                | 6510                                   |                |                |                |                |                |
|  |                                       |                                       | H: 10 3/4"                            |  | H: 10 3/4"                             |                | H: 10 3/4"                             |                |                |                |                |                |
| <p><b>Barometric Pressure Relief</b><br/>(Air flow activated)</p>  |                                       |                                       |                                       |  | 6108                                   |                | 6110                                   | 6112           | 6114           | 6116           |                |                |
|  |                                       |                                       |                                       |  | H: 10 3/4"                             |                | H: 10 3/4"                             | H: 12 3/4"     | H: 14 3/4"     | H: 16 3/4"     |                |                |
| <p><b>Static Pressure Relief</b><br/>(Power activated)</p>   |                                       |                                       |                                       |  | 6208                                   |                | 6210                                   | 6212           | 6214           | 6216           | 6218           | 6220           |
|  |                                       |                                       |                                       |  | H: 8"                                  |                | H: 10"                                 | H: 12"         | H: 14"         | H: 16"         | H: 18"         | H: 20"         |
| <p><b>Round Slip-In Damper</b><br/>(Normally open/<br/>power closed)</p>                                     | 6704                                  | 6705                                  | 6706                                  | 6707                                   | 6708                                   |                | 6710                                   |                |                |                |                |                |
|  | W: 3 4/5"<br>H: 12 3/5"<br>D: 7 3/10" | W: 3 4/5"<br>H: 12 3/5"<br>D: 8 3/10" | W: 3 4/5"<br>H: 12 3/5"<br>D: 9 3/10" | W: 3 4/5"<br>H: 12 3/5"<br>D: 10 3/10" | W: 3 4/5"<br>H: 12 3/5"<br>D: 11 3/10" |                | W: 3 4/5"<br>H: 12 3/5"<br>D: 13 3/10" |                |                |                |                |                |

\* Round Damper Dimension = Nominal diameter + 4.5"

† 10 day lead time for shaded items



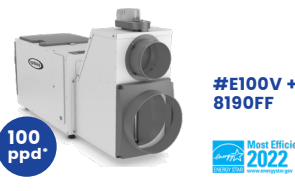



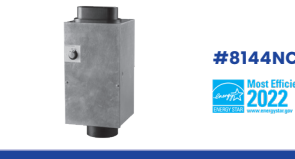






# Fresh Air Ventilation

Ventilators and Ventilating Dehumidifiers - Part of the AprilAire Healthy Air System



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

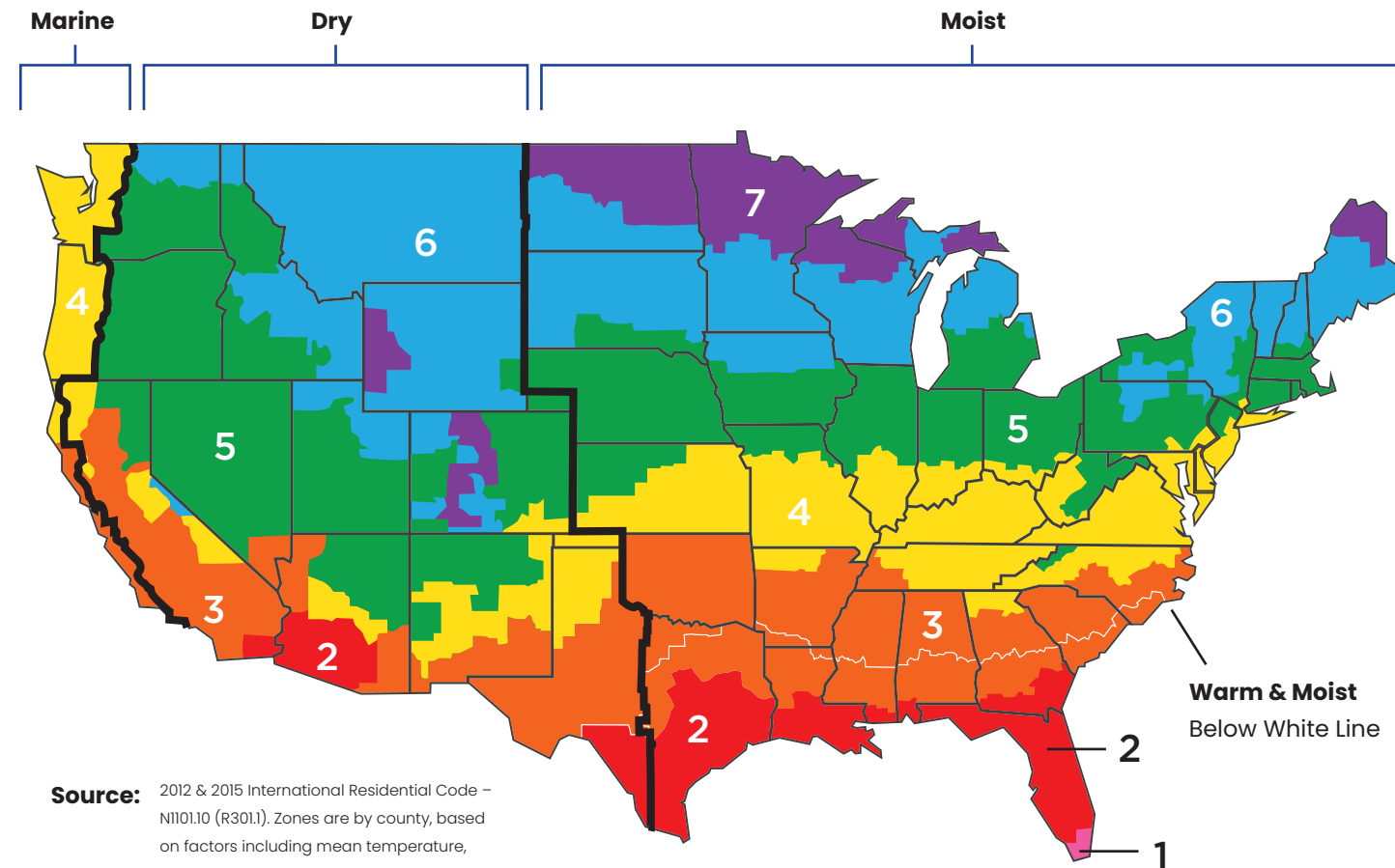
| VENTILATION SYSTEMS  | UNIT SIZE   | SHIPPING WEIGHT LBS.                             | AIRFLOW 0.2 IN. W.C. @ (CFM) | DESCRIPTION   |
|--|---|--|------------------------------|---|
| <b>VENTILATING DEHUMIDIFIERS</b>   |   |  |                              |   |
|  <b>#E100V + 8190FF</b>               | W: 14 1/2"<br>H: 23 1/2"<br>L: 48 1/4"                                      | 82.00 (E100V)<br>16.80 (8190FF)                  | 150                          | The Ventilating Dehumidifier (Models E100V + 8190FF) brings in fresh air to meet ventilation needs while removing excess humidity from the incoming outdoor air. Fresh air is brought in whenever the HVAC system or dehumidifier is running to meet that need. If the required time is not met through these run cycles, the ventilating dehumidifier will bring in fresh air and remove any excess humidity.                                  |
|  <b>#8192A</b>                        | W: 15"<br>H: 14"<br>L: 26"  | 82.00  | 245                          | The 8192A features an integrated ventilation control. It draws fresh air into the home by energizing its fan and opening its vent damper. If the incoming air is above a set relative humidity percentage point, the outside air is dehumidified by the 8192A.<br><b>*Dehumidification Capacity 100 Pints Per Day</b>   |
| <b>FRESH AIR VENTILATORS</b>   |   |  |                              |   |
|  <b>#8145A<br/>#8145NC<br/>#8145K</b> | W: 12 1/4"<br>H: 11 3/4"<br>L: 23 2/5"                                      | 15.00 (8145A)<br>14.50 (8145NC)<br>21.00 (8145K) | 210                          | The 8145A or 8142A delivers fresh air into the return or supply duct by energizing its fan and opening its integrated damper. Both models feature an 8120A ventilation controller integrated into the unit. NC models do not include an on-board controller so that ventilation can be controlled via thermostat. The 8145K comes with 8145NC, 8120A control, inlet hood and start collar for adding ventilation to existing homes and systems. |
|  <b>#8142A<br/>#8142NC</b>           | W: 13 1/2"<br>H: 6 7/10"<br>L: 11 9/10"                                     | 11.50<br>10.75                                   | 210                          |   |
|  <b>#8144NC</b>                     | W: 10 1/4"<br>H: 18 1/8"<br>D: 10 1/4"                                      | 20.50  | 130                          | The 8144NC provides continuous low-volume ventilation for smaller single- and multi-family homes. A separate 8120A ventilation controller can be added to set the unit to operate by the controller's Code or Comfort functions.  |
| <b>VENTILATION CONTROLLER</b>  |   |  |                              |   |
|  <b>#8120A</b>                      | W: 4 11/100"<br>H: 3 3/5"<br>D: 1 59/100"                                   | .50  |                              | The 8120A engages a fan or damper on ventilation solutions to deliver fresh air to return duct. It can provide fresh air within set high/low outdoor temperature and indoor RH limits.  |
| <b>VENTILATION SYSTEM</b>  |   |  |                              |   |
|  <b>#8126A</b>                      | W: 10 9/25"<br>H: 10 3/4"<br>D: 6"  | 6.50   |                              | The 8126A includes a powered damper, ventilation controller, and installation accessories. The controller energizes the damper, mounted on the return side of the HVAC blower. When the HVAC blower energizes, negative pressure draws fresh air into the home.   |
| <b>KITCHEN VENTILATION KITS</b>  |   |  |                              |   |
|  <b>#KV08<br/>#KV10</b>             | W: 8"<br>H: 10 3/4"<br>D: 12 1/3"<br><br>W: 10"<br>H: 10 3/4"<br>D: 14 1/5" | 6.00<br>6.70                                     | 185<br>390                   | The KV08, KV10 Kitchen Ventilation Kits provide make-up air locally to areas where high-CFM range hoods (typically near 400 CFM or above) are used to prevent home depressurization and its undesired side effects.   |
| <b>FRESH AIR EXCHANGER (ERV)</b>   |   |  |                              |   |
|  <b>#8100</b>                       | W: 37 3/8"<br>H: 20 23/40"<br>D: 12 3/4"                                    | 87.00  | 130                          | The 8100 draws in fresh outdoor air and exhausts stale indoor air, transferring energy (heating or cooling) between the two air sources, as well as transferring moisture from the higher moisture airstream to the airstream with lower moisture. This creates a balanced airflow and eliminates pressure. A ventilation controller or thermostat (both sold separately) energizes blowers within the ventilator.                              |

# Accessories

| ACCESSORIES  | PRODUCT DESCRIPTION   | UNIT SIZE  | TYPE OF WIRE  | COMPATIBLE MODELS   |
|--|---|--|---|---|
|  <b>#8051</b>   | <b>Flush Mount Sensor</b><br>Ideal for residential or light commercial applications where customer requires nothing to be seen on the wall.       | Disk: 1 1/2" dia.<br><br>Friction fit in a 1" opening. Air gap of 1/4" required. |   | 8600<br>8620<br>8620W<br>8910<br>8910W<br>8920W<br>8800<br>8820<br>8830<br>8840 |
|  <b>#8052</b>   | <b>Outdoor/Duct Sensor</b><br>Designed for outdoor or duct installation including with use of zone control panels.                                | <b>Probe:</b><br>1/4" dia. x 1 3/4" L<br><br><b>Bracket:</b><br>3/4" x 3/4"      | 18-24 gauge 2 conductor wire (or more conductors)                           |   |
|  <b>#8053</b>   | <b>Surface Mount Sensor</b><br>Perfect for light indoor commercial applications to prevent tampering.   | W: 3 1/2"<br>H: 2 1/2"<br>D: 7/8"  |   |   |
|  <b>#8022</b>   | <b>3-Wire to 4-Wire Adapter</b><br>Used to add a wire to a thermostat, fix a broken wire or add a common wire to a 4-wire system.                 | W: 2 7/8"<br>H: 1 3/4"<br>D: 1 47/50"  |   | All thermostats   |
|  <b>#8028</b>  | <b>Damper Power Distribution Panel</b><br>For applications where needed dampers outnumber control capability of any AprilAire Zone Control Panel. | W: 10 1/2"<br>H: 5"<br>D: 1 7/10"  | 18-22 gauge stranded or solid thermostat wire can be used for all wire runs | All zone control panels   |
|  <b>#6401</b> | <b>Expansion Panel</b><br>Two-zone expansion panel that supports 2-wire or 3-wire dampers.  | W: 10 1/2"<br>H: 5"<br>D: 1 7/10"  |   | 6404<br>With LCD screen   |
| <b>AUTOMATION MODULES</b>  |   |  |   |   |
|  <b>#8082</b> | <b>Temperature and RH Support Module</b><br>Averages four temperatures (on-board or off-board) and four humidity values (on-board only).          | W: 3 1/2"<br>H: 2 1/2"<br>D: 7/8"  |   | 8800<br>8840  |
|  <b>#8083</b> | <b>Flush Temperature and RH Support Module</b><br>Averages four temperature and four RH values.   | Disk: 1 1/2" dia.<br><br>Cylinder Hole: 1" off wall, 1/4" air gap                | Cat 6 or greater  |   |

# Ventilation climate zones

Managing the quality of ventilated air delivered into the home is critical to providing a healthy indoor environment. The requirements change significantly based on climate. AprilAire ventilation solutions work with the HVAC equipment to remove moisture, harmful particulates and other contaminants such as VOCs. It's critical to use intelligent ventilation controls and application guidance to properly ventilate rather than relying on exhaust ventilation which simply pulls air through walls.



**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.

Use this map and the adjoining application guide to 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

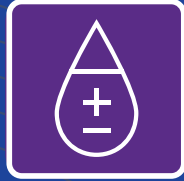
## AprilAire Ventilation Application Matrix

| ZONE | CLIMATE TYPE         | MAJOR CITIES  | PRIMARY SOLUTION <sup>1</sup>   | FRESH AIR DUCTED <sup>2</sup> | ECONOMY- OR COMFORT- FOCUSED SOLUTION | MULTI-FAMILY NEW CONSTRUCTION SOLUTION |
|------|----------------------|---|---|-------------------------------|---------------------------------------|--|
| 1    | Hot & Moist          | Miami   | <b>E100V + 8190FF or 8192A</b><br>Dehumidifies incoming ventilation air | HVAC Return                   | <b>8145A or 8126A</b>                 | <b>8144NC</b>                          |
| 2    | Hot & Moist          | Orlando, Mobile, New Orleans, Houston, Austin, San Antonio                        | <b>E100V + 8190FF or 8192A</b><br>Dehumidifies incoming ventilation air | HVAC Return                   | <b>8145A or 8126A</b>                 | <b>8144NC</b>                          |
| 2    | Hot & Dry            | Phoenix, Tucson   | <b>8142A</b><br>Mixes ventilation air after cooling or heating          | HVAC Supply                   | <b>8126A</b>                          | <b>8144NC</b>                          |
| 3    | Warm & Moist         | Charlotte, Charleston, Atlanta, Little Rock, Oklahoma City, DFW                   | <b>E100V + 8190FF or 8192A</b><br>Dehumidifies incoming ventilation air | HVAC Return                   | <b>8145A or 8126A</b>                 | <b>8144NC</b>                          |
| 3    | Warm & Dry           | El Paso, Las Vegas, Los Angeles, Sacramento                                       | <b>8142A</b><br>Mixes ventilation air after cooling or heating          | HVAC Supply                   | <b>8126A</b>                          | <b>8144NC</b>                          |
| 3    | Warm & Marine        | San Francisco, San Jose   | <b>8142A</b><br>Mixes ventilation air after cooling or heating          | HVAC Supply                   | <b>8145A or 8126A</b>                 | <b>8144NC</b>                          |
| 4    | Mixed & Moist        | Philadelphia, Washington DC, Baltimore, Nashville, St. Louis, Wichita, Louisville | <b>8145A</b><br>Mixes ventilation air prior to cooling or heating       | HVAC Return                   | <b>E100V + 8190FF, 8192A or 8126A</b> | <b>8144NC</b>                          |
| 4    | Mixed & Dry          | Albuquerque, Amarillo   | <b>8142A</b><br>Mixes ventilation air after cooling or heating          | HVAC Supply                   | <b>8145A or 8126A</b>                 | <b>8144NC</b>                          |
| 4    | Mixed & Marine       | Portland, Seattle   | <b>8142A</b><br>Mixes ventilation air after cooling or heating          | HVAC Supply                   | <b>8145A or 8126A</b>                 | <b>8144NC</b>                          |
| 5    | Cool & Moist         | Boston, Pittsburgh, Columbus, Indianapolis, Detroit, Chicago, Des Moines, Omaha   | <b>8145A</b><br>Mixes ventilation air prior to cooling or heating       | HVAC Return                   | <b>8126A</b>                          | <b>8144NC</b>                          |
| 5    | Cool & Dry           | Denver, Salt Lake City, Boise, Reno   | <b>8145A</b><br>Mixes ventilation air prior to cooling or heating       | HVAC Supply or Return         | <b>8142A or 8126A</b>                 | <b>8144NC</b>                          |
| 6    | Cold & Moist         | Toronto, Vancouver, Milwaukee, Madison, Minneapolis-St Paul, Sioux Falls          | <b>8145A</b><br>Mixes ventilation air prior to cooling or heating       | HVAC Return                   | <b>8126A</b>                          | <b>8144NC</b>                          |
| 6    | Cold & Dry           | Helena, Cheyenne  | <b>8145A</b><br>Mixes ventilation air prior to cooling or heating       | HVAC Return                   | <b>8126A</b>                          | <b>8144NC</b>                          |
| 7    | Extreme Cold & Moist | Fargo, Duluth, Calgary, Edmonton  | <b>8145A</b><br>Mixes ventilation air prior to cooling or heating       | HVAC Return                   | <b>8126A</b>                          | <b>8144NC</b>                          |

<sup>1</sup> Primary AprilAire recommended supply ventilation solution for optimal performance and building code adherence.

<sup>2</sup> HVAC application considerations based upon moist versus dry air, and proper mixing into the ductwork.

# AprilAire®



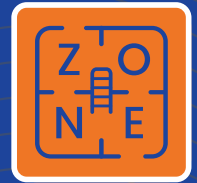
Humidity  
Control



Air  
Cleaning



Control



Zoning



Fresh Air



Radon