All Product Specifications

Quick Reference Guide | October 2018

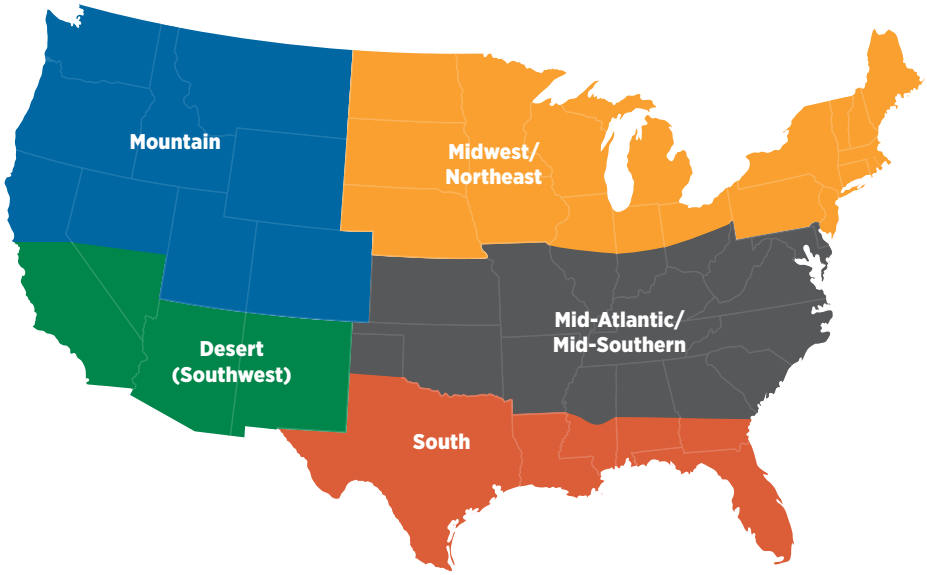
For comprehensive product specifications, refer to individual product guides at AprilairePartners.com.

Regional Humidifier Applications

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

The Aprilaire humidifier product portfolio consists of evaporative flow through, fan-powered products and residential steam. 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.

Aprilaire's control strategy will maximize the humidifier run time/capacity. The automatic humidity controls have an integrated blower activation relay. This relay is factory set to "ON". It will turn on the humidifier and the HVAC blower for humidification without a heat call. This will dramatically increase the capacity 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.



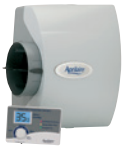
Application Map

This application map assists in the selection of the appropriate Aprilaire product based upon geography and heating equipment.

HVAC VARIABLES				CLIMATE ZONE/RECOMMENDED SOLUTION BY MODEL				
Equipment	**Plenum Temp. In °F**	**Run Time**	**Airflow Volume**	**MIDWEST/ NORTHEAST**	**MID-ATLANTIC/ MID-SOUTHERN**	**SOUTH**	**DESERT (SOUTHWEST)**	**MOUNTAIN**
Gas/Oil Furnace-Single Speed	120-140	Periodic	Adequate	400/500/600/ 700/800	500/600/ 700/800	600/700/800	800	600/700/800
Gas/Oil Variable Speed Furnace	120-140	Constant	Limited	700/800*	700/800	700/800	800	700/800*
Heat Pump/Geo-Single Stage	90	Periodic	Adequate	600/700/800	600/700/800	800	800	600/700/800
Heat Pump/Geo-Multi-Variable Speed Furnace	90	Constant	Limited	700/800	700/800	800	800	700/800
Boiler With Ahu	70	Periodic	Adequate	800	800	800	800	800
Boiler With Ahu/Coil	90	Periodic	Adequate	700/800	700/800	800	800	800
Boiler	N/A	N/A	N/A	865/350/360	865/350/360	865/350/360	865/350/360	865/350/360
Electric Baseboard Heating	N/A	N/A	N/A	865/350/360	865/350/360	865/350/360	865/350/360	865/350/360
Humidifying with A/C Unit	<70	Periodic	Adequate	N/A	N/A	800	800	800

*Evaporative performance of bypass humidifiers decreases with lower airflow volume and 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 in the supply duct is at least 100°F.

Humidifiers

	Aprilaire Humidifiers	Model No.	Type of Humidification	Unit Size Width x Height x Depth	Plenum Opening	Capacity GPD = Gallons Per Day	Electrical Data	Water Panel/ Canister
800 Series		**800††** **801*****	**Steam Humidifier** For applications when evaporative units are less practical (attics, crawl spaces, closets, milder winter climates, non-forced-air heating source).	10⅛" x 20⅞" x 7⅛"	-	11.5 GPD 16.0 GPD 20.5 GPD 30.0 GPD 23.3 GPD 34.6 GPD	120V 60Hz 11.5 AMP 120V 60Hz 16 AMP 208V 60Hz 11.5 AMP 208V 60Hz 16 AMP 240V 60Hz 11.5 AMP 240V 60Hz 16 AMP	80
		**865** **866*****	**Ductless Humidification System** Includes the Model 800, Fan Pack, Model 65 Control and Model 4028 Drain Trap. For homes without forced-air heating systems.	**Fan Pack:** 14"x 6⁹⁄₁₀"x 3¹⁵⁄₁₆" **Finished Grille:** 16¹³⁄₁₆" x 9" x 1¹⁵⁄₁₆"	-			80LC
700 Series		**700*** **700M****	**Powered Unit** Built-in fan that pulls heated air directly from the furnace.	15²⁹⁄₃₂" x 18" x 10¹¹⁄₃₂"	W: 14¾" H: 14⁵⁄₁₆"	18 GPD	120V 60Hz 0.8 AMP	35
600 Series		**600*** **600M****	**Bypass Unit** Uses the furnace blower to move air through a Water Panel.®	15⅜" x 15¾" x 10¼" 6" dia. round opening	W: 10" H: 12¾"	17 GPD	24V 60Hz 0.5 AMP	35
500 Series		**500*** **500M****	**Bypass Unit** Designed for smaller homes.	15⅝" x 13" x 10¼" 6" dia. round opening	W: 9½" H: 9½"	12 GPD	24V 60Hz 0.5 AMP	10
400 Series		**400*** **400M****	**Bypass Unit** Uses 100% of water and evaporative technology that eliminates the need for a drain. **Conserves Water.** Aprilaire	15⅜" x 15¾" x 10¼"* 6" dia. round opening See note on heat pumps†	W: 10" H: 12¾"	17 GPD	24V 60Hz 0.5 AMP	45
300 Series		**360** **350**	**Self-contained** Designed for homes with radiators or baseboard heat.	**Model 360:** 13¾" x 12¾" x 12½" **Model 350:** 13¾" x 12¾" x 15"	-	12 GPD	**Model 360:** 120V 60Hz 0.7 AMP **Model 350:** 120V 60Hz 0.9 AMP	35

5-YEAR BUMPER & BUMPER WARRANTY

MADE IN USA

HUMIDIFIER SIZING GUIDELINES GPD Needed Per Square Foot‡ Based on Building Structure Tightness							
Structure Tightness (8 Ft Ceilings)	1000 Ft²	1500 Ft²	2000 Ft²	2500 Ft²	3000 Ft²	4000 Ft²	5000 Ft²
Tight	4.3 GPD	6.4 GPD	8.5 GPD	10.6 GPD	12.7 GPD	17 GPD	21.2 GPD
Average	8.6 GPD	12.8 GPD	17 GPD	21.3 GPD	25.4 GPD	34 GPD	42.6 GPD
Loose	12.7 GPD	19.1 GPD	25.5 GPD	31.8 GPD	38.1 GPD	51 GPD	63.6 GPD

***Automatic Digital Control** with Auto-Trac® (shown)

****Manual Control** – For those rare occurrences where an automatic control is not practical, Aprilaire digital control can be installed in manual mode while still delivering the accuracy and information you need for optimal performance.

*****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 the Model 400 hot water provides less benefit.) 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 for low conductive water 75-300uS/cm and 120VAC applications.

‡**AHRI Air Conditioning, Heating, and Refrigeration Institute GPD = Gallons Per Day 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.

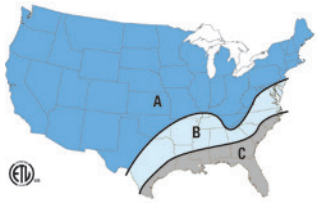
Water Usage Rate – Models 350, 360 and 700 are 6 gph (gph=gallons per hour); Models 500 and 600 are 3 gph; Model 400 is 0.7 gph; Model 800 is 0.6 to 1.8 gph depending on voltage, amp draw and water quality.

Dehumidifiers

1800 Series

Aprilaire Dehumidifiers	Model No.	Unit Size	Capacity ppd = Pints Per Day	Weight lbs	Efficiency @ 80°F/ 60% RH	Airflow (CFM)	Power @ 80°F/ 60% RH	Supply Voltage	Current Draw @ 80°F/ 60% RH	Air Filter	Power Cord
	**1830**[1]	W: 12½" H: 14½" D: 25"	ENERGY STAR 70 ppd	67	4 pints/ kWh	160	757 watts	120 VAC 1 Phase 60 Hz	6.3 amps	1" MERV 8	8' 120 VAC Grounded Plug
	1850	W: 12½" H: 14½" D: 27½"	95 ppd	70	4.7 pints/ kWh	265	870 watts		8.0 amps		
	1850F[2]										
	1850W[4]										
	**1870**[1]	W: 19½" H: 18¾" D: 30"	ENERGY STAR 130 ppd	113	6.1 pints/ kWh	310	900 watts		8.3 amps		
	1870W[1,4]										
	**1870F**[1,3]			114			996 watts				

DEHUMIDIFIER SIZING GUIDELINES



The recommended home floor area (ft²) that each listed dehumidifier can dehumidify, assuming 8 ft. ceilings. These are 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.

	Model 1830		Model 1850		Model 1870	
	1.00 ACH	.50 ACH	1.00 ACH	.50 ACH	1.00 ACH	.50 ACH
Region A	2800 Ft²	3800 Ft²	3800 Ft²	5200 Ft²	5200 Ft²	7200 Ft²
Region B	2200 Ft²	3400 Ft²	3000 Ft²	4700 Ft²	3900 Ft²	6500 Ft²
Region C	1400 Ft²	2000 Ft²	1900 Ft²	2800 Ft²	2300 Ft²	3600 Ft²

ACH = Air Changes per Hour. The tighter the house, the lower the ACH.

[1] An **ENERGY STAR**® certified product
[2] **1850F** is on casters
[3] **1870F** is a freestanding dehumidifier on casters with no duct collars
[4] **1850W/1870W** is a hardwired unit only

BUMPER & BUMPER 5-YEAR WARRANTY

Air Purifiers

	Aprilaire Air Purifiers	Model No.	Nominal Size (in Inches)	Cabinet Size	Shipping Weight lbs	Primary Replacement Filter No.	Alternative Replacement Filters
						MERV 16	
2000 Series		2216	20 x 25	W: 6¾″ H: 22¹⁄₁₆″ D: 27⅜″	20	216	213CBN, 213, 210
		2416	16 x 25	W: 6¾″ H: 17¾″ D: 30¹⁄₁₆″	19.25	416	413CBN, 413, 410
		2516	31 x 28	W: 6¾″ H: 31″ D: 30¹⁄₁₆″	24.9	516	513CBN, 513, 510
						MERV 13	
		2210	20 x 25	W: 6¾″ H: 22¹⁄₁₆″ D: 27⅜″	19	213	216, 213CBN, 210
		2310	20 x 20	W: 6¾″ H: 20⅜″ D: 22¹⁄₁₆″	17	313	310
		2410	16 x 25	W: 6¾″ H: 17¾″ D: 30¹⁄₁₆″	19	413	416, 413CBN, 410
						MERV 11	
1000 Series		1110	16 x 20	W: 6¾″ H: 17¾″ D: 22¹⁄₁₆″	13	110	113
		1210	20 x 25	W: 6¾″ H: 22¹⁄₁₆″ D: 27⅜″	20	210	216, 213CBN, 213
		1310	20 x 20	W: 6¾″ H: 20⅜″ D: 22¹⁄₁₆″	15	310	313
		1410	16 x 25	W: 6¾″ H: 17¾″ D: 30¹⁄₁₆″	19	410	416, 413CBN, 413
		1510	31 x 28	W: 6¾″ H: 31″ D: 30¹⁄₁₆″	28	510	516, 513CBN, 513
		1610	16 x 25	W: 15¹¹⁄₁₆″ H: 17¹³⁄₁₆″ D: 30³⁄₃₂″	30	410	416, 413CBN, 413
		1620	20 x 25	W: 15¹¹⁄₁₆″ H: 22⅛″ D: 27⅜″	33	210	216, 213CBN, 213
		1910	25 x 20	W: 6¾″ H: 25¹⁄₁₆″ D: 22¹⁄₁₆″	18	910	913
						ELECTRONIC AIR PURIFIER	
5000 Series		5000	16 x 25	W: 12″ H (front): 18⅜″ H (back): 17¾″ D: 31″	35	501	–

Air Purifier Filters

	PRESSURE DROP CHART														
	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 ALLERGY & ASTHMA	216	-	0.06	0.09	0.13	0.17	0.23	0.29	0.36	-	-	-	-	-	-	-
	416	-	0.07	0.11	0.15	0.21	0.28	0.36	-	-	-	-	-	-	-	-
	516	-	0.04	0.05	0.07	0.10	0.12	0.15	0.17	0.21	0.24	0.28	0.32	0.36	-	-
MERV 13 HEALTHY HOME	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	-	-	-	-	-
	913	-	0.04	0.07	0.10	0.13	0.17	0.22	0.25	0.30	0.35	-	-	-	-	-
MERV 13 ODOR REDUCTION	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 CLEAN AIR	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	0.14	0.17	0.21	0.25	0.29	-	-	-	-	-
	401	0.02	0.04	0.05	0.08	0.10	0.14	0.17	0.21	0.25	0.29	-	-	-	-	-
EAP	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 Purifier Filters

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%	99%
MERV 13	63%	88%	93%
MERV 11	37%	67%	92%
MERV 10	22%	56%	92%
EAP (Model 5000)	89%	95%	98%

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

UPGRADE KITS

MERV 13

Filter No.	Used With Space-Gard & Aprilaire Air Purifier Models	Nominal Size (in inches)	Included Filter	Static Pressure Drop (in. w.c.) @ 1200 CFM	Maximum Airflow Capacity (in CFM)
1213	2200*	20 x 25	213	0.15	2000
1413	2400*	16 x 25	413	0.17	2000

*Air purifier models no longer available.

COMPETITIVE UPGRADE RAILS

Upgrade Rails	Fits Air Purifier Size (in inches)	Filters	Fits Air Purifier Models By	Maximum Airflow Capacity (in CFM)
Model 4897	16 x 25	610, 613	Carrier General Honeywell Lennox Trion Ultravation	2000
	20 x 25	810, 813		2000
Model 4898	16 x 20	110, 113		1200
	20 x 20	310, 313		1200

REPLACEMENT FILTERS

MERV 10

Filter No.	Used with Aprilaire Air Purifier Models	Nominal Size (in inches)	Static Pressure Drop (in. w.c.) @ 1200 CFM	Maximum Airflow Capacity (in CFM)
201	2200 Space-Gard, 2200 Aprilaire	20 x 25	0.14	2000
401	2400 Space-Gard, 2400 Aprilaire	16 x 25	0.14	2000

Thermostat & IAQ Controls

		Non-Programmable	Programmable	Programmable with Event-Based™ Air Cleaning	Programmable Touch Screen	Programmable Touch Screen with Humidity Control	IAQ Control *	IAQ Control *
Residential Model No. • Stages		8444 • 1H/1C 8446 • 2H/1C HP 8448 Universal • 2H/2C, 4H/2C HP	8463 • 1H/1C 8465 • 2H/1C HP 8466 Universal • 2H/2C, H/2C HP	8476W(Wi-Fi) 8476 Universal • 2H/2C, 4H/2C HP	8600 Universal • 2H/2C, 4H/2C HP	8620W(Wi-Fi) 8620 Universal • 2H/2C, 4H/2C HP	8910W(Wi-Fi) 8910 Universal • 3H/3C, 4H/2C HP	8920W(Wi-Fi) Universal • 3H/3C, 4H/2C HP
Home Automation Model No.		-	-	8810	8800	8820	8830	8840
Dimensions (Width x Height x Depth)		5¼″ x 4½″ x 1″			6″ x 4 15⁄16″ x 1 15⁄16″		6″ x 4 17⁄20″ x 1¼″	7 1⁄10″ x 4 17⁄20″ x 1″
Temperature Control	Easy to Read Display	●	●	●	●	●	●	●
	Simple Setup	●	●	●	●	●	●	●
	Displays Outdoor Temperature (if equipped)	●	●	●	●	●	●	●
	Adjustable Differential	●	●	●	●	●	●	●
	Progressive Recovery		●	●	●	●	●	●
	Heat Blast					●	●	●
Air Cleaning	Event-Based™ Air Cleaning			●		●	●	●
	Air Cleaning Notice			●		●	●	●
	Change Filter Alert	●	●	●	●	●	●	●
Humidifier Control	Automatic or Manual Humidifier Control					●	●	●
	“Humidifier On” Notice					●	●	●
	Displays Indoor RH					●	●	●
	Energizes HVAC Blower for Humidity					●	●	●
	Controls Humidifier with 24 VAC Dry Contact					●	●	●
Dehumidifier Control	Controls Whole-Home Dehumidifier					●	●	●
	Controls A/C Equipment for Dehumidification					●	●	●
	Displays Indoor RH					●	●	●
	“Dehumidifier On” Notice					●	●	●
	Energizes HVAC Blower for Dehumidification					●	●	●
	Controls Dehumidifier with 24 VAC Dry Contact					●	●	●
Ventilation Control	Programmable for Timed Ventilation					●	●	●
	Programmable for ASHRAE 62.2 Ventilation					●	●	●
	Configurable Temperature and Humidity Limits					●	●	●
	“Ventilation On” Notice					●	●	●
Product Configuration	Controls Air Cleaner and Humid or Dehumid or Vent					●		
	Controls Air Cleaner and Humid, Dehumid and Vent						●	●
	Wired Outdoor Temperature Sensor Included					●	●	●
	Wireless Outdoor Temperature and Relative Humidity Sensor Available (sold separately)						●	●
	Two-Part Design–Only 3 Wires to the Living Space						●	●

* **Equipment Control Module** = 8⅜″ x 9⅜″ x 1 9⁄10″

● = amazon alexa Compatible ● = Google Assistant Compatible

Zone Control Panels

Universal

6404 – 4 Zone Universal Multistage
(Can be expanded to 12 zones with Model 6401)
6403 – 3 Zone Universal Multistage

+ **2 Heat 2 Cool or 4 Heat 2 Cool (Heat Pump)**
+ **Compatible with Model 8056 wireless outdoor sensor**

Overall Dimensions	8 17/20" W x 14 18/25" H x 1 43/50" D
Humidity	5% - 90% RH, non-condensing
Operating Temperature	32°F - 158°F
Shipping Temperature	-40°F - 165°F
Voltage	18-30VAC 50/60 Hz
Maximum Current	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

Zoned Comfort Control™ Kits* Available: 6404K & 6403K

Heat Pump Only

6303 – 3 Zone Heat Pump
6302 – 2 Zone Heat Pump

+ **2 Heat 1 Cool Single Stage**

Overall Dimensions	8 63/100" W x 9 33/50" H x 1 43/50" D
Humidity	5% - 90% RH, non-condensing
Operating Temperature	32°F - 158°F
Shipping Temperature	-40°F - 180°F
Voltage	18-30VAC 50/60 Hz
Maximum Current	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

Zoned Comfort Control™ Kits* Available: 6303K & 6302K

Conventional Only

6203 – 3 Zone Heat/Cool
6202 – 2 Zone Heat/Cool

+ **1 Heat 1 Cool Single Stage**

Overall Dimensions	8 63/100" W x 9 33/50" H x 1 43/50" D
Humidity	5% - 90% RH, non-condensing
Operating Temperature	32°F - 158°F
Shipping Temperature	-40°F - 180°F
Voltage	18-30VAC 50/60 Hz
Maximum Current	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

Zoned Comfort Control™ Kits* Available: 6203K & 6202K

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

Zone Dampers

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

* **Rectangular Damper Dimension** = Nominal width + 3.5″

** 10 day lead time for shaded items

Zone Dampers

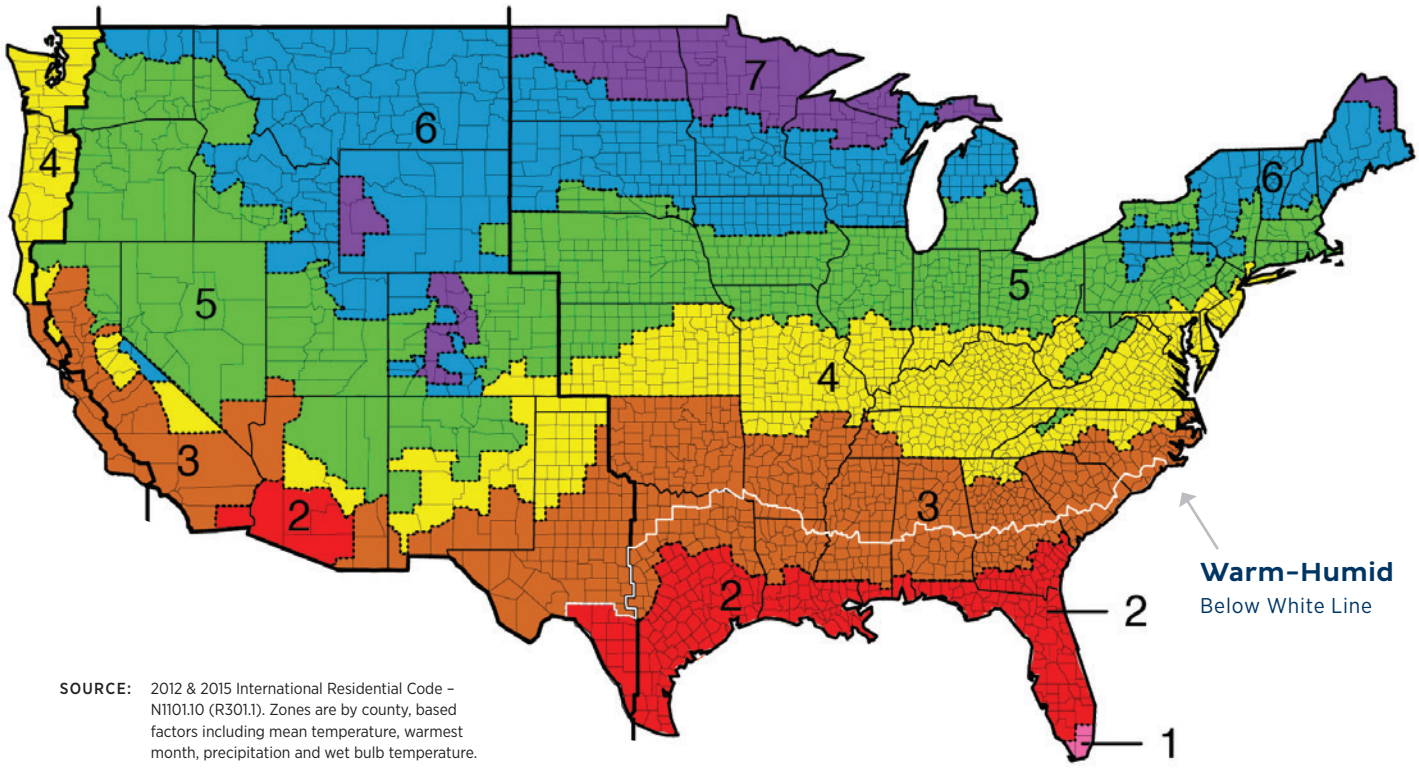
		ROUND DAMPER SIZE & STOCK NO.*											
		Nominal Diameter (in inches)											
		4″ (102mm)	5″ (127mm)	6″ (152mm)	7″ (178mm)	8″ (203mm)	9″ (229mm)	10″ (254mm)	12″ (305mm)	14″ (356mm)	16″ (406mm)	18″ (457mm)	20″ (508mm)
	**Zone Damper** (Normally open/ power closed) *W3 indicates power open/power closed*	-	-	6606 6606W3 H: 10¾″	6607 6607W3 H: 10¾″	6608 6608W3 H: 10¾″	6609 6609W3 H: 10¾″	6610 6610W3 H: 10¾″	6612 6612W3 H: 12¾″	6614 6614W3 H: 14¾″	6616 6616W3 H: 16¾″	6618 H: 19³¹⁄₃₂″	6620 H: 22″
	**Ventilation Damper** (Normally closed/ power opened)	-	-	6506 H: 10¾″	-	6508 H: 10¾″	-	6510 H: 10¾″	-	-	-	-	-
	**Barometric Pressure Relief** (Air flow activated)	-	-	-	-	6108 H: 10¾″	-	6110 H: 10¾″	6112 H: 12¾″	6114 H: 14¾″	6116 H: 16¾″	-	-
	**Static Pressure Relief** (Power activated)	-	-	-	-	6208 H: 8″	-	6210 H: 10″	6212 H: 12″	6214 H: 14″	6216 H: 16″	6218 H: 18″	6220 H: 20″
	**Round Slip-In Damper** (Normally open/ power closed)	6704 W: 3⅘″ H: 12⅗″ D: 7³⁄₁₀″	6705 W: 3⅘″ H: 12⅗″ D: 8³⁄₁₀″	6706 W: 3⅘″ H: 12³⁄₅₄″ D: 9³⁄₁₀″	6707 W: 3⅘″ H: 12⅗″ D: 10³⁄₁₀″	6708 W: 3⅘″ H: 12⅗″ D: 11³⁄₁₀″	-	6710 W: 3⅘″ H: 12⅗″ D: 13³⁄₁₀″	-	-	-	-	-

* **Round Damper Dimension** = Nominal diameter + 4.5″

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 VOC's. It's critical to use adequate ventilation controls and application guidance to properly ventilate rather than to simply pull air through walls with local exhaust ventilation.

Marine **Dry** **Moist**



SOURCE: 2012 & 2015 International Residential Code – N1101.10 (R301.1). Zones are by county, based 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 Residential New Construction Application Matrix

ZONE	CLIMATE TYPE	MAJOR CITIES	PRIMARY SOLUTION[1]	FRESH AIR DUCTED[2]	ECONOMY- OR COMFORT-FOCUSED SOLUTION	MULTI-FAMILY NEW CONSTRUCTION SOLUTION
1	**Hot & Moist**	Miami	**8191 or 8192** Dehumidifies incoming ventilation air	HVAC Return	**8140 or 8126X**	**8144NC**
2	**Hot & Moist**	Orlando, Mobile, New Orleans, Houston, Austin, San Antonio	**8191 or 8192** Dehumidifies incoming ventilation air	HVAC Return	**8140 or 8126X**	**8144NC**
2	**Hot & Dry**	Phoenix, Tucson	**8142** Mixes ventilation air after cooling or heating	HVAC Supply	**8126X**	**8144NC**
3	**Warm & Moist**	Charlotte, Charleston, Atlanta, Little Rock, Oklahoma City, DFW	**8191 or 8192** Dehumidifies incoming ventilation air	HVAC Return	**8140 or 8126X**	**8144NC**
3	**Warm & Dry**	El Paso, Las Vegas, Los Angeles, Sacramento	**8142** Mixes ventilation air after cooling or heating	HVAC Supply	**8126X**	**8144NC**
3	**Warm & Marine**	San Francisco, San Jose	**8142** Mixes ventilation air after cooling or heating	HVAC Supply	**8140 or 8126X**	**8144NC**
4	**Mixed & Moist**	Philadelphia, Washington DC, Baltimore, Nashville, St. Louis, Wichita, Louisville	**8140** Mixes ventilation air prior to cooling or heating	HVAC Return	**8191, 8192 or 8126X**	**8144NC**
4	**Mixed & Dry**	Albuquerque, Amarillo	**8142** Mixes ventilation air after cooling or heating	HVAC Supply	**8140 or 8126X**	**8144NC**
4	**Mixed & Marine**	Portland, Seattle	**8142** Mixes ventilation air after cooling or heating	HVAC Supply	**8140 or 8126X**	**8144NC**
5	**Cool & Moist**	Boston, Pittsburgh, Columbus, Indianapolis, Detroit, Chicago, Des Moines, Omaha	**8140** Mixes ventilation air prior to cooling or heating	HVAC Return	**8126X**	**8144NC**
5	**Cool & Dry**	Denver, Salt Lake City, Boise, Reno	**8140** Mixes ventilation air prior to cooling or heating	HVAC Supply or Return	**8142 or 8126X**	**8144NC**
6	**Cold & Moist**	Toronto, Vancouver, Milwaukee, Madison, Minneapolis-St Paul, Sioux Falls	**8140** Mixes ventilation air prior to cooling or heating	HVAC Return	**8126X**	**8144NC**
6	**Cold & Dry**	Helena, Cheyenne	**8140** Mixes ventilation air prior to cooling or heating	HVAC Return	**8126X**	**8144NC**
7	**Extreme Cold & Moist**	Fargo, Duluth, Calgary, Edmonton	**8140** Mixes ventilation air prior to cooling or heating	HVAC Return	**8126X**	**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.

Ventilation

Aprilaire Ventilation Systems	Model No.	Unit Size	Dehumidification Capacity ppd = Pints Per Day	Shipping Weight lbs	Airflow 0.2 in. w.c. @ (CFM)	Product Description
FRESH AIR VENTILATORS WITH DEHUMIDIFICATION						
	**8191**	W: 12½″ H: 14½″ L: 25″	70 ppd	82.50	120	The ventilation control is integrated into the Aprilaire whole-home unit. The unit energizes its blower and opens a damper drawing fresh air into the home. If the incoming air is above a set relative humidity percentage, the incoming air is dehumidified.
	8192	W: 12½″ H: 14½″ L: 27½″	95 ppd	84.00	230	
FRESH AIR VENTILATORS						
	**8140** **8140NC**	W: 14⅔″ H: 11⅜″ L: 27⅛″	-	30.50 30.00	225	Aprilaire ventilation control energizes a blower in the ventilator and opens an integrated damper delivering fresh air into the return or the supply. NC models do not include an on-board controller so that ventilation can be controlled by a thermostat located within the living space.
	**8142** **8142NC**	W: 13⅕″ H: 6⁷⁄₁₀″ L: 11⁹⁄₁₀″	-	12.36 9.80	210	
	**8144NC**	W: 10¼″ H: 18⅛″ D: 10¼″	-	20.50	130	The 8144NC is designed to provide continuous low-volume ventilation for smaller single- and multi-family homes. An 8120X ventilation controller may be added to set the unit for energy code ventilation or use high/low temperature and RH lock outs for comfort set up.
VENTILATION CONTROLLER						
	**8120X**	W: 4¹¹⁄₁₀₀″ H: 3⅜″ D: 1⁵⁹⁄₁₀₀″	-	.50	-	The 8120X engages a fan or damper on various Aprilaire ventilation solutions to allow the delivery of fresh air to a supply or return on the HVAC system. Control can be programmed to deliver the correct amount of fresh air required by code or within high/low outdoor temperature and indoor RH lockouts set by the installer or homeowner.
VENTILATION SYSTEM						
	**8126X**	W: 10⁸⁄₂₅″ H: 10¾″ D: 6″	-	6.50	-	Aprilaire ventilation control energizes a powered damper mounted on the return side of the HVAC blower. When the HVAC blower energizes, negative pressure draws fresh air into the home.
KITCHEN VENTILATION KITS						
	**6508KV**	W: 8″ H: 10¾″ D: 12⅓″	-	6.00	185	The Aprilaire 6508KV, 6510KV Kitchen Ventilation Kit is designed to locally provide make-up air to areas where high-CFM range hoods (typically near 400 CFM or above) are used to prevent home depressurization and its consequences.
	6510KV	W: 10″ H: 10¾″ D: 14⅓″	-	6.70	390	
FRESH AIR EXCHANGER (ERV)						
	**8100**	W: 37⅜″ H: 20²³⁄₄₀″ D: 12¾″	-	87.00	130	Aprilaire ventilation control (not included) or thermostat energizes blowers in the ventilator drawing fresh air in and exhausting stale air out of the home. The air flow is balanced, eliminating pressure, and energy is transferred between incoming and outgoing air.

Accessories

Aprilaire Accessories	Model No.	Product Description	Unit Size	Type of Wire	Compatible Models
	**8051**	**Flush Mount Sensor** Ideal for residential or light commercial applications where customer requires nothing to be seen on the wall.	**Disk:** 1½" dia. Friction fit in a 1" opening. Air gap of ¼" required.	18-24 gauge 2 conductor wire (or more conductors)	8600 8620 8620W 8910 8910W 8920W 8800 8820 8830 8840
	**8052**	**Outdoor/Duct Sensor** Designed for outdoor or duct installation including with use of zone control panels.	**Probe:** ¼" dia. x 1¾" L **Bracket:** ¾" x ¾"		
	**8053**	**Surface Mount Sensor** Perfect for light indoor commercial applications to prevent tampering.	W: 3½" H: 2½" D: ⅞"		
	**8056**	**Two-piece Wireless Outdoor Temperature and RH Sensor** Designed for use with the Home Comfort Control.	W: 3½" H: 2½" D: ⅞"	Wireless	IAQ Control Thermostats and Universal Control Zone Panels
	**8022**	**3-Wire to 4-Wire Adapter** Used to add a wire to a thermostat, fix a broken wire or add a common wire to a 4-wire system.	W: 2⅞" H: 1¾" D: 1⁴⁷⁄₅₀"	18-22 gauge stranded or solid thermostat wire can be used for all wire runs	All thermostats
	**8028**	**Damper Power Distribution Panel** For applications where needed dampers outnumber control capability of any Aprilaire Zone Control Panel.	W: 10½" H: 5" D: 1⁷⁄₁₀"		All zone control panels
	**6401**	**Expansion Panel** Two-zone expansion panel that supports 2-wire or 3-wire dampers.	W: 10½" H: 5" D: 1⁷⁄₁₀"		6404 With LCD screen
AUTOMATION MODULES					
	**8081**	**Temperature Support Module** Averages up to eight temperature locations per thermostat.	W: 3½" H: 2½" D: ⅞"	Cat 5 or greater	8800 8820 8830 8840
	**8082**	**Temperature and RH Support Module** Averages four temperatures (on-board or off-board) and four humidity values (on-board only).	W: 3½" H: 2½" D: ⅞"		
	**8083**	**Flush Temperature and RH Support Module** Averages four temperature and four RH values.	**Disk:** 1½" dia. **Cylinder Hole:** 1" off wall, ¼" air gap		

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