



# All Product Specifications

Quick Reference Guide | August 2019



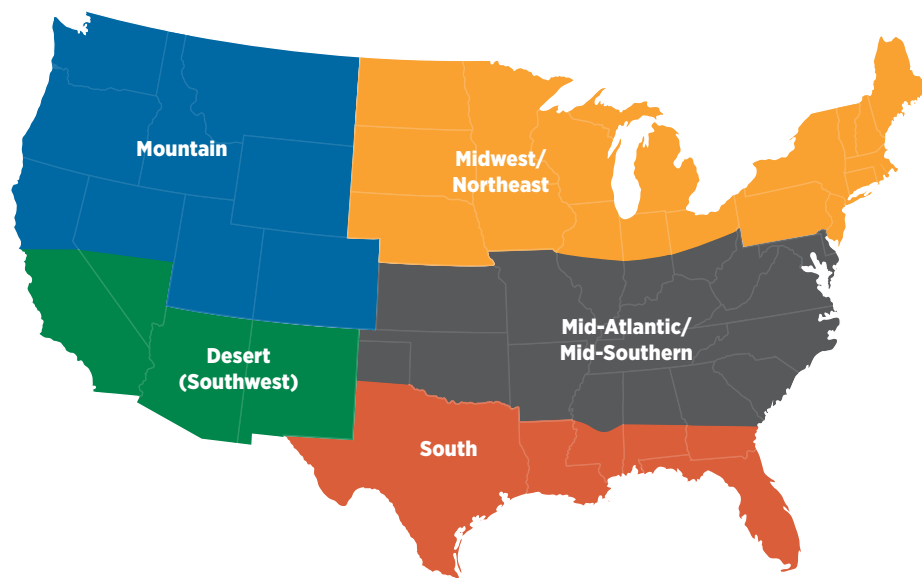
For comprehensive product specifications, refer to individual product guides at [AprilairePartners.com](http://AprilairePartners.com) or call **800.334.6011**.

# 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.*








CLIMATE ZONE/RECOMMENDED 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	865	865	865	865	865
Electric Baseboard Heating	865	865	865	865	865
Humidifying with A/C Unit	N/A	N/A	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.

# 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		<b>800**</b> <b>801***</b>	<b>Steam Humidifier</b> For applications when evaporative units are less practical (attics, crawl spaces, closets, milder winter climates, non-forced-air heating source).	10 <sup>1</sup> / <sub>8</sub> " x 20 <sup>7</sup> / <sub>8</sub> " x 7 <sup>1</sup> / <sub>8</sub> "	-	11.5 GPD 16.0 GPD 20.5 GPD	120V 60Hz 11.5 AMP 120V 60Hz 16 AMP 208V 60Hz 11.5 AMP	80
		<b>865</b> <b>866***</b>	<b>Ductless Humidification System</b> Includes the Model 800, Fan Pack, Model 65 Control and Model 4028 Drain Trap. For homes without forced-air heating systems.	<b>Fan Pack:</b> 14" x 6 <sup>9</sup> / <sub>16</sub> " x 3 <sup>15</sup> / <sub>16</sub> " <b>Finished Grille:</b> 16 <sup>3</sup> / <sub>16</sub> " x 9" x 1 <sup>5</sup> / <sub>16</sub> "	-	30.0 GPD 23.3 GPD 34.6 GPD	208V 60Hz 16 AMP 240V 60Hz 11.5 AMP 240V 60Hz 16 AMP	80LC
700 Series		<b>700*</b> <b>700M**</b>	<b>Powered Unit</b> Built-in fan that pulls heated air directly from the furnace.	15 <sup>29</sup> / <sub>32</sub> " x 18" x 10 <sup>11</sup> / <sub>32</sub> "	W: 14 <sup>3</sup> / <sub>4</sub> " H: 14 <sup>5</sup> / <sub>16</sub> "	18 GPD	120V 60Hz 0.8 AMP	35
600 Series		<b>600*</b> <b>600M**</b>	<b>Bypass Unit</b> Uses the furnace blower to move air through a Water Panel*.	15 <sup>3</sup> / <sub>8</sub> " x 15 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " 6" dia. round opening	W: 10" H: 12 <sup>3</sup> / <sub>4</sub> "	17 GPD	24V 60Hz 0.5 AMP	35
500 Series		<b>500*</b> <b>500M**</b>	<b>Bypass Unit</b> Designed for smaller homes.	15 <sup>5</sup> / <sub>8</sub> " x 13" x 10 <sup>3</sup> / <sub>4</sub> " 6" dia. round opening	W: 9 <sup>1</sup> / <sub>2</sub> " H: 9 <sup>1</sup> / <sub>2</sub> "	12 GPD	24V 60Hz 0.5 AMP	10
400 Series		<b>400*</b> <b>400M**</b>	<b>Bypass Unit</b> Uses 100% of water and evaporative technology that eliminates the need for a drain. <b>Conserves Water.</b> 	15 <sup>3</sup> / <sub>8</sub> " x 15 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> "** 6" dia. round opening See note on heat pumps†	W: 10" H: 12 <sup>3</sup> / <sub>4</sub> "	17 GPD	24V 60Hz 0.5 AMP	45
300 Series		<b>360</b> <b>350</b>	<b>Self-contained</b> Designed for homes with radiators or baseboard heat.	<b>Model 360:</b> 13 <sup>3</sup> / <sub>4</sub> " x 12 <sup>3</sup> / <sub>4</sub> " x 12 <sup>1</sup> / <sub>2</sub> " <b>Model 350:</b> 13 <sup>3</sup> / <sub>4</sub> " x 12 <sup>3</sup> / <sub>4</sub> " x 15"	-	12 GPD	<b>Model 360:</b> 120V 60Hz 0.7 AMP <b>Model 350:</b> 120V 60Hz 0.9 AMP	35



HUMIDIFIER SIZING GUIDELINES GPD Needed Per Square Foot† Based on Building Structure Tightness							
Structure Tightness (8 Ft Ceilings)	1000 Ft <sup>2</sup>	1500 Ft <sup>2</sup>	2000 Ft <sup>2</sup>	2500 Ft <sup>2</sup>	3000 Ft <sup>2</sup>	4000 Ft <sup>2</sup>	5000 Ft <sup>2</sup>
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 offers the same great humidifiers with a mechanical 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 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 less conductive water 75-300µS/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.

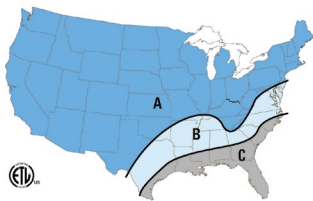
Bypass Humidifiers - Can be installed on the supply or return plenum.

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

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
 1800 Series	<b>1830<sup>1</sup></b>	W: 12½" H: 14½" D: 25"	 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
	<b>1850</b>	W: 12½" H: 14½" D: 27½"	95 ppd	70	4.7 pints/ kWh	265	870 watts		8.0 amps		
	<b>1852<sup>2</sup></b>										
	<b>1850W<sup>3</sup></b>										Hardwired
	<b>1870<sup>1</sup></b>	W: 19½" H: 18¾" D: 30"	 130 ppd	113	6.1 pints/ kWh	310	900 watts	8.3 amps		1" MERV 8	8' 120 VAC Grounded Plug
	<b>1872<sup>1,2</sup></b>			114			996 watts				
	<b>1870W<sup>1,3</sup></b>			113			900 watts				Hardwired

## DEHUMIDIFIER SIZING GUIDELINES



The recommended home floor area (ft<sup>2</sup>) 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 Ft <sup>2</sup>	3800 Ft <sup>2</sup>	3800 Ft <sup>2</sup>	5200 Ft <sup>2</sup>	5200 Ft <sup>2</sup>	7200 Ft <sup>2</sup>
Region B	2200 Ft <sup>2</sup>	3400 Ft <sup>2</sup>	3000 Ft <sup>2</sup>	4700 Ft <sup>2</sup>	3900 Ft <sup>2</sup>	6500 Ft <sup>2</sup>
Region C	1400 Ft <sup>2</sup>	2000 Ft <sup>2</sup>	1900 Ft <sup>2</sup>	2800 Ft <sup>2</sup>	2300 Ft <sup>2</sup>	3600 Ft <sup>2</sup>

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








<sup>1</sup> An ENERGY STAR® certified product

<sup>2</sup> 1852 and 1872 are on casters

<sup>3</sup> 1850W and 1870W are hardwired unit only





# Air Cleaners

Aprilaire Air Cleaners	Model No.	Nominal Size (in Inches)	Cabinet Size	Shipping Weight lbs	Included Filter	Compatible Replacement Filters*		
2000 Series		<b>2216</b>	20 x 25	W: 6¾" H: 22½" D: 27¾"	20	<b>216</b>	213CBN, 213, 210	
		<b>2416</b>	16 x 25	W: 6¾" H: 17¾" D: 30½"	19.25	<b>416</b>	413CBN, 413, 410	
		<b>2516</b>	31 x 28	W: 6¾" H: 31" D: 30½"	24.9	<b>516</b>	513CBN, 513, 510	
		<b>2210</b>	20 x 25	W: 6¾" H: 22½" D: 27¾"	19	<b>213</b>	216, 213CBN, 210	
		<b>2310</b>	20 x 20	W: 6¾" H: 20¾" D: 22½"	17	<b>313</b>	310	
		<b>2410</b>	16 x 25	W: 6¾" H: 17¾" D: 30½"	19	<b>413</b>	416, 413CBN, 410	
1000 Series		<b>1110</b>	16 x 20	W: 6¾" H: 17¾" D: 22½"	13	<b>110</b>	113	
		<b>1210</b>	20 x 25	W: 6¾" H: 22½" D: 27¾"	20	<b>210</b>	216, 213CBN, 213	
		<b>1310</b>	20 x 20	W: 6¾" H: 20¾" D: 22½"	15	<b>310</b>	313	
		<b>1410</b>	16 x 25	W: 6¾" H: 17¾" D: 30½"	19	<b>410</b>	416, 413CBN, 413	
		<b>1510</b>	31 x 28	W: 6¾" H: 31" D: 30½"	28	<b>510</b>	516, 513CBN, 513	
		<b>1610</b>	16 x 25	W: 15½" H: 17¾" D: 30½"	31	<b>410</b>	416, 413CBN, 413	
		<b>1620</b>	20 x 25	W: 15½" H: 22½" D: 27¾"	32.4	<b>210</b>	216, 213CBN, 213	
		<b>1910</b>	25 x 20	W: 6¾" H: 25½" D: 22½"	18	<b>910</b>	913	
	5000 Series		<b>5000</b>	16 x 25	W: 12" H (front): 18¾" H (back): 17¾" D: 31"	35	<b>501</b>	—

\* Included filter model is also available as a replacement option.

## Filter Grille Air Cleaners\*

Aprilaire Filter Grille Air Cleaners	Model No.	Nominal Size (In Inches)	Filter Model	Shipping Weight
	<b>1625FG11</b>	16 x 25	610	16 lbs.
			613	
	<b>2025FG11</b>	20 x 25	810	18 lbs.
			813	



\*Recommended grille face velocity is 300-450 fpm. To minimize risk of noise, use two filter grilles on systems over 3.5 tons.

# Air Cleaner 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	
<b>MERV 16</b> ALLERG & ASTHMA	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	-	
<b>MERV 13</b> 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	-	-	-	-	-
		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
<b>MERV 11</b> 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	-	-	-	-	-
		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	-	-	-	-	
<b>EAC</b>	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 Cleaner Filters

REMOVAL EFFICIENCY (Based on Particle Size)			
	0.3–1.0 Microns	1.0–3.0 Microns	3.0–10.0 Microns
<b>MERV 16</b>	95%	98%	99%
<b>MERV 13</b>	63%	88%	93%
<b>MERV 11</b>	37%	67%	92%
<b>MERV 10</b>	22%	56%	92%
<b>EAC (Model 5000)</b>	89%	95%	98%

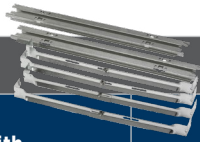
Test Method - MERV 10-16 -ASHRAE 52.2.2012, EAP - AHRI 680-2009



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

MERV 13

\*1213 Upgrade Kit includes 4893 rails and Model 213 MERV 13 Healthy Home Filter  
 \*\*1413 Upgrade Kit includes 4894 rails and Model 413 MERV 13 Healthy Home Filter



UPGRADE RAILS				
Model No.	Compatible With	Nominal Size (in inches)	Uses Filter Model	Maximum Airflow Capacity (in CFM)
<b>4893*</b>	Aprilaire/Space-Gard 2200 or 2120	20x25	210, 213, 213CBN, 216	2000
<b>4894**</b>	Aprilaire/Space-Gard 2400 or 2140	16x25	410, 413, 413CBN, 416	2000
<b>4897</b>	Models by (but not limited to): Carrier® Honeywell® Lennox® Ultravation® General® Trion®	16x25	610	2000
		20x25	810	2000
<b>4898</b>	Models by (but not limited to): Carrier® Honeywell® Lennox® Ultravation® General® Trion®	16x20	110, 113	1200
		20x20	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)
<b>201</b>	2200 Space-Gard, 2200 Aprilaire*	20 x 25	0.12	2000
<b>401</b>	2400 Space-Gard, 2400 Aprilaire*	16 x 25	0.14	2000

MERV 10

\*Air Cleaner models no longer available.

# Thermostat & IAQ Controls



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, 4H/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 4¼" x 1¼"		6" x 4¼" x 1¼"	7¼" x 4¼" 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					●	●	●
	Two-Part Design - Only 3 Wires to the Living Space						●	●

\* Equipment Control Module = 8¼" x 9¾" x 1¼"





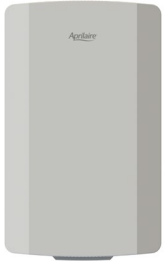


# Zone Control Systems

## 6000 SERIES PRODUCT CONFIGURATIONS

Kits	Black	White
	<b>Model 6010: 2-Zone Complete Kit**</b>	<b>Model 6015: 2-Zone Complete Kit**</b>
2-Zone		
	<b>Model 6020: 3-Zone Complete Kit</b>	<b>Model 6025: 3-Zone Complete Kit**</b>
3-Zone		
Individual Components	Model 6030: 2-Zone Base	Model 6035: 2-Zone Base
	Model 6040: 3-Zone Base	Model 6045: 3-Zone Base
	Model 6050: Secondary Zone UI	Model 6055: Secondary Zone UI

\*\* Kits include outdoor temperature sensor along with duct probe


# Zone Control Panels

	Model	Specifications		
Universal		<p><b>6404 – 4 Zone Universal Multistage</b> (Can be expanded to 12 zones with Model 6401)</p> <p><b>6403 – 3 Zone Universal Multistage</b> + 2 Heat 2 Cool or 4 Heat 2 Cool (Heat Pump) + Compatible with Model 8056 wireless outdoor sensor</p>	<p><b>Overall Dimensions</b> 8<sup>5</sup>/<sub>100</sub>" W x 9<sup>33</sup>/<sub>60</sub>" H x 1<sup>45</sup>/<sub>60</sub>" D</p> <p><b>Humidity</b> 5% - 90% RH, non-condensing</p> <p><b>Operating Temperature</b> 32°F - 158°F</p> <p><b>Shipping Temperature</b> -40°F - 180°F</p> <p><b>Voltage</b> 18-30VAC 50/60 Hz</p>	<p><b>Maximum Current</b> 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</p>
		Zoned Comfort Control™ Kits* Available: 6404K & 6403K		
Heat Pump Only		<p><b>6303 – 3 Zone Heat Pump</b></p> <p><b>6302 – 2 Zone Heat Pump</b> + 2 Heat 1 Cool Single Stage</p>	<p><b>Overall Dimensions</b> 8<sup>5</sup>/<sub>100</sub>" W x 9<sup>33</sup>/<sub>60</sub>" H x 1<sup>45</sup>/<sub>60</sub>" D</p> <p><b>Humidity</b> 5% - 90% RH, non-condensing</p> <p><b>Operating Temperature</b> 32°F - 158°F</p> <p><b>Shipping Temperature</b> -40°F - 180°F</p> <p><b>Voltage</b> 18-30VAC 50/60 Hz</p>	<p><b>Maximum Current</b> 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</p>
		Zoned Comfort Control™ Kits* Available: 6303K & 6302K		
Conventional Only		<p><b>6203 – 3 Zone Heat/Cool</b></p> <p><b>6202 – 2 Zone Heat/Cool</b> + 1 Heat 1 Cool Single Stage</p>	<p><b>Overall Dimensions</b> 8<sup>5</sup>/<sub>100</sub>" W x 9<sup>33</sup>/<sub>60</sub>" H x 1<sup>45</sup>/<sub>60</sub>" D</p> <p><b>Humidity</b> 5% - 90% RH, non-condensing</p> <p><b>Operating Temperature</b> 32°F - 158°F</p> <p><b>Shipping Temperature</b> -40°F - 180°F</p> <p><b>Voltage</b> 18-30VAC 50/60 Hz</p>	<p><b>Maximum Current</b> 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</p>
		Zoned Comfort Control™ Kits* Available: 6303K & 6302K		

\* 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"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	
(203mm)	(254mm)	(305mm)	(356mm)	(406mm)	(457mm)	(508mm)	(559mm)	(610mm)	(660mm)	(711mm)	(762mm)	

 <p><b>Side Mount</b> Motor mounted on short dimension</p> <p><i>W3 indicates power open/ power closed</i></p>	<b>8"</b> (203mm)	6721 6721W3	6722 6722W3	6723 6723W3	6724 6724W3	6725 6725W3	6726 6726W3	6727 6727W3	6728 6728W3	6729 6729W3	6730 6730W3	6731 6731W3	6753 6753W3
	<b>10"</b> (254mm)	-	6732 6732W3	6733 6733W3	6734 6734W3	6735 6735W3	6736 6736W3	6737 6737W3	6738 6738W3	6739 6739W3	6740 6740W3	6741 6741W3	6742 6742W3
	<b>12"</b> (305mm)	-	-	6743 6743W3	6744 6744W3	6745 6745W3	6746 6746W3	6747 6747W3	6748 6748W3	6749 6749W3	6750	6751	6752
	<b>14"</b> (356mm)	-	-	-	6754 6754W3	6755 6755W3	6756 6756W3	6757 6757W3	6758 6758W3	6759 6759W3	6760	6761	6762
	<b>16"</b> (406mm)	-	-	-	-	6763 6763W3	6764	6765	6766	6767	6768	6769	6770
	<b>18"</b> (457mm)	-	-	-	-	-	6771	6772	6773	6774	6775	6776	6777
	<b>20"</b> (508mm)	-	-	-	-	-	-	6778	6779	6780	6781	6782	6783
	<b>22"</b> (559mm)	-	-	-	-	-	-	-	6784	6785	6786	6787	6788
	<b>24"</b> (610mm)	-	-	-	-	-	-	-	-	6789	6790	6791	6792
	<b>26"</b> (660mm)	-	-	-	-	-	-	-	-	-	6793	6794	6795
	<b>28"</b> (711mm)	-	-	-	-	-	-	-	-	-	-	6796	6797
	<b>30"</b> (762mm)	-	-	-	-	-	-	-	-	-	-	-	6798
<p><b>Bottom Mount</b> Motor mounted on long dimension</p>	<b>8"</b> (203mm)	6721 6721W3	6812 6812W3	6813 6813W3	6814 6814W3	6815 6815W3	6816 6816W3	6817 6817W3	6818 6818W3	6819 6819W3	-	-	-
	<b>10"</b> (254mm)	-	6732 6732W3	6823 6823W3	6824 6824W3	6825 6825W3	6826 6826W3	6827 6827W3	6828 6828W3	6829 6829W3	-	-	-
	<b>12"</b> (305mm)	-	-	6743 6743W3	6834 6834W3	6835 6835W3	6836 6836W3	6837 6837W3	6838 6838W3	6839 6839W3	-	-	-

\* Rectangular Damper Dimension = Nominal width + 3.5"  
 \*\* 10 day lead time for shaded items

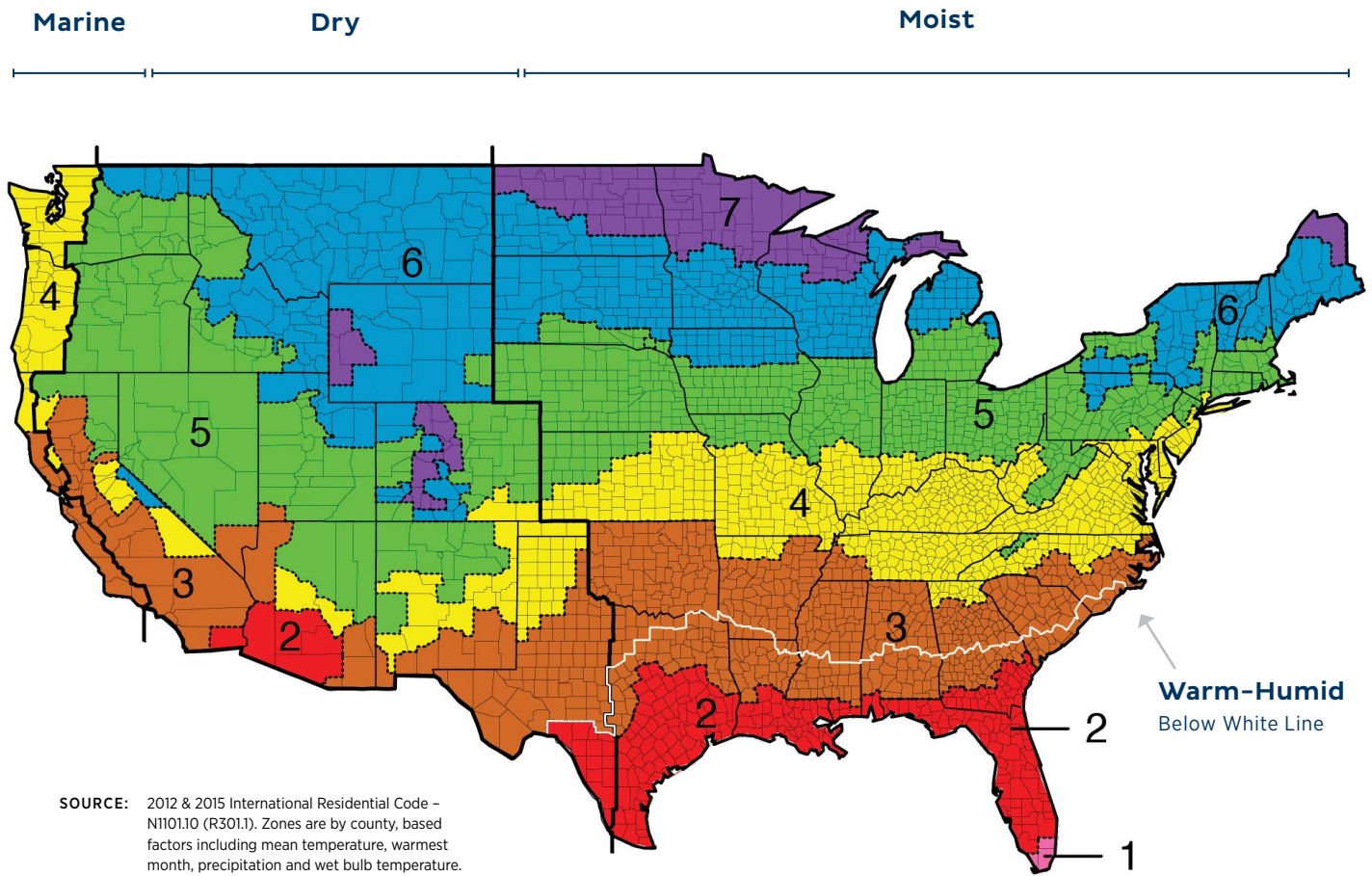
# Zone Dampers

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)		
	<b>Zone Damper</b> (Normally open/ power closed) <i>W3 indicates power open/power closed</i>	-	-	6606 6606W3	6607 6607W3	6608 6608W3	6609 6609W3	6610 6610W3	6612 6612W3	6614 6614W3	6616 6616W3	6618	6620
				H: 10 <sup>3</sup> / <sub>4</sub> "	H: 10 <sup>3</sup> / <sub>4</sub> "	H: 10 <sup>3</sup> / <sub>4</sub> "	H: 10 <sup>3</sup> / <sub>4</sub> "	H: 10 <sup>3</sup> / <sub>4</sub> "	H: 12 <sup>3</sup> / <sub>4</sub> "	H: 14 <sup>3</sup> / <sub>4</sub> "	H: 16 <sup>3</sup> / <sub>4</sub> "	H: 19 <sup>3</sup> / <sub>16</sub> "	H: 22"
	<b>Ventilation Damper</b> (Normally closed/ power opened)	-	-	6506	-	6508	-	6510	-	-	-	-	-
				H: 10 <sup>3</sup> / <sub>4</sub> "		H: 10 <sup>3</sup> / <sub>4</sub> "		H: 10 <sup>3</sup> / <sub>4</sub> "					
	<b>Barometric Pressure Relief</b> (Air flow activated)	-	-	-	-	6108	-	6110	6112	6114	6116	-	-
						H: 10 <sup>3</sup> / <sub>4</sub> "		H: 10 <sup>3</sup> / <sub>4</sub> "	H: 12 <sup>3</sup> / <sub>4</sub> "	H: 14 <sup>3</sup> / <sub>4</sub> "	H: 16 <sup>3</sup> / <sub>4</sub> "		
	<b>Static Pressure Relief</b> (Power activated)	-	-	-	-	6208	-	6210	6212	6214	6216	6218	6220
						H: 8"		H: 10"	H: 12"	H: 14"	H: 16"	H: 18"	H: 20"
	<b>Round Slip-In Damper</b> (Normally open/ power closed)	6704	6705	6706	6707	6708	-	6710	-	-	-	-	-
		W: 3 <sup>1</sup> / <sub>2</sub> " H: 12 <sup>3</sup> / <sub>8</sub> " D: 7 <sup>3</sup> / <sub>16</sub> "	W: 3 <sup>1</sup> / <sub>2</sub> " H: 12 <sup>3</sup> / <sub>8</sub> " D: 8 <sup>3</sup> / <sub>16</sub> "	W: 3 <sup>1</sup> / <sub>2</sub> " H: 12 <sup>3</sup> / <sub>8</sub> " D: 9 <sup>3</sup> / <sub>16</sub> "	W: 3 <sup>1</sup> / <sub>2</sub> " H: 12 <sup>3</sup> / <sub>8</sub> " D: 10 <sup>3</sup> / <sub>16</sub> "	W: 3 <sup>1</sup> / <sub>2</sub> " H: 12 <sup>3</sup> / <sub>8</sub> " D: 11 <sup>3</sup> / <sub>16</sub> "		W: 3 <sup>1</sup> / <sub>2</sub> " H: 12 <sup>3</sup> / <sub>8</sub> " D: 13 <sup>3</sup> / <sub>16</sub> "					

\* 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 VOCs. 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.



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

# 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
<b>FRESH AIR VENTILATOR WITH DEHUMIDIFICATION</b>						
	<b>8192</b>	W: 12½" H: 14½" L: 27½"	95 ppd	84.00	230	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.
<b>FRESH AIR VENTILATORS</b>						
	<b>8140 8140NC</b>	W: 14¾" H: 11½" L: 27¾"	-	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.
	<b>8142 8142NC</b>	W: 13½" H: 6¾" L: 11¾"	-	12.36 9.80	210	
	<b>8144NC</b>	W: 10¼" H: 18⅞" 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.
<b>VENTILATION CONTROLLER</b>						
	<b>8120X</b>	W: 4 <sup>11</sup> / <sub>100</sub> " H: 3 <sup>3</sup> / <sub>5</sub> " D: 1 <sup>9</sup> / <sub>100</sub> "	-	.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.
<b>VENTILATION SYSTEM</b>						
	<b>8126X</b>	W: 10 <sup>9</sup> / <sub>25</sub> " H: 10 <sup>3</sup> / <sub>4</sub> " 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.
<b>KITCHEN VENTILATION KITS</b>						
	<b>6508KV</b>	W: 8" H: 10¾" D: 12½"	-	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.
	<b>6510KV</b>	W: 10" H: 10¾" D: 14½"	-	6.70	390	
<b>FRESH AIR EXCHANGER (ERV)</b>						
	<b>8100</b>	W: 37¾" H: 20 <sup>3</sup> / <sub>4</sub> " 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
	<b>8051</b>	<b>Flush Mount Sensor</b> Ideal for residential or light commercial applications where customer requires nothing to be seen on the wall.	<b>Disk:</b> 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
	<b>8052</b>	<b>Outdoor/Duct Sensor</b> Designed for outdoor or duct installation including with use of zone control panels.	<b>Probe:</b> ¼" dia. x 1¾" L  <b>Bracket:</b> ¾" x ¾"		
	<b>8053</b>	<b>Surface Mount Sensor</b> Perfect for light indoor commercial applications to prevent tampering.	W: 3½" H: 2½" D: 7⁄8"		
	<b>8022</b>	<b>3-Wire to 4-Wire Adapter</b> Used to add a wire to a thermostat, fix a broken wire or add a common wire to a 4-wire system.	W: 2⁄8" H: 1¾" D: 1⁄7⁄50"	18-22 gauge stranded or solid thermostat wire can be used for all wire runs	All thermostats
	<b>8028</b>	<b>Damper Power Distribution Panel</b> For applications where needed dampers outnumber control capability of any Aprilaire Zone Control Panel.	W: 10½" H: 5" D: 1¼"		All zone control panels
	<b>6401</b>	<b>Expansion Panel</b> Two-zone expansion panel that supports 2-wire or 3-wire dampers.	W: 10½" H: 5" D: 1¼"		6404 With LCD screen
<b>AUTOMATION MODULES</b>					
	<b>8081</b>	<b>Temperature Support Module</b> Averages up to eight temperature locations per thermostat.	W: 3½" H: 2½" D: 7⁄8"	Cat 6 or greater	8800 8820 8830 8840
	<b>8082</b>	<b>Temperature and RH Support Module</b> Averages four temperatures (on-board or off-board) and four humidity values (on-board only).	W: 3½" H: 2½" D: 7⁄8"		
	<b>8083</b>	<b>Flush Temperature and RH Support Module</b> Averages four temperature and four RH values.	<b>Disk:</b> 1½" dia.  <b>Cylinder Hole:</b> 1" off wall, ¼" air gap		

