AprilAire
PARTNERS

Air Purity Solutions

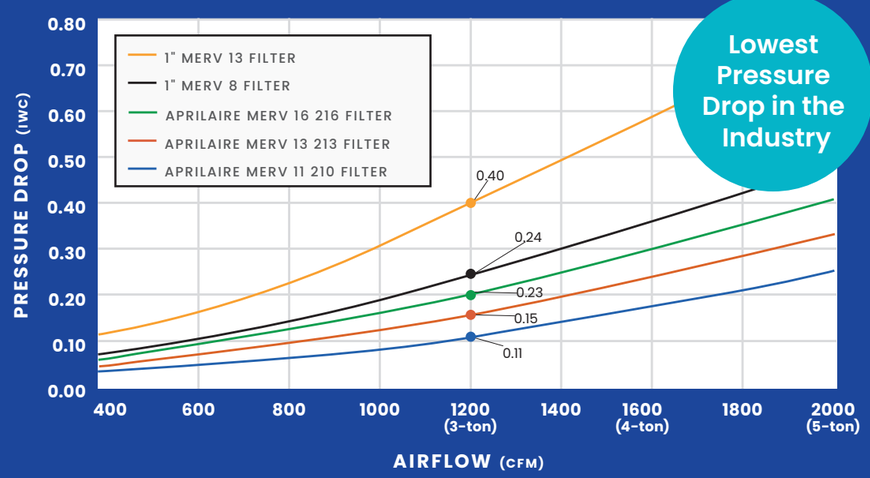
Whole-Home Air Cleaners



Healthy Clean Air in every home.

Healthy Air in Every Home.

1. Static Pressure: Airflow vs. Resistance (20 x 25 Nominal Filter)



Lowest Pressure Drop in the Industry

AprilAire Filters have a much lower airflow resistance. Less than half when comparing identical MERV ratings.

CHART SOURCE:
ASHRAE DUCT TESTING DATA

The right air filters make all the difference: the difference between equipment running efficiently or it being bogged down with problems. One-inch filters deliver high static pressure and have a low capacity for holding dust. That means they require frequent change outs. "Require" is the key word there. If customers don't change those one-inch filters as often as needed, their equipment will perform inefficiently and its coils will become dirty or even frozen.

2. For Better Airflow, Keep Velocity and Resistance Low

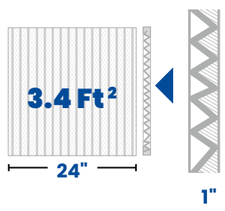
Velocity is the speed air moves through a filter. The larger the media area, the lower the velocity. The lower the velocity, the lower the resistance. The result: better airflow.

Everyone has held back water flowing from a hose with their thumb. It increases pressure and creates more velocity to the stream of water. Restrictive undersized filters are like a thumb on the HVAC system's airflow. They increase pressure and create more velocity–an HVAC system's nightmare.

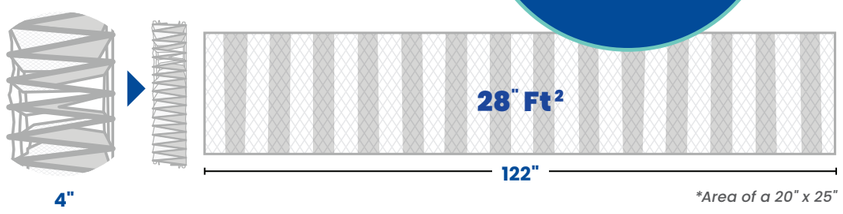
The pleats on an AprilAire Filter create more surface area. This lowers resistance and velocity which results in better airflow and increased system performance.

MORE FILTER AREA
Lower Static Pressure.
Longer Life.

1" FILTER
(1 TO 3 MONTHS)



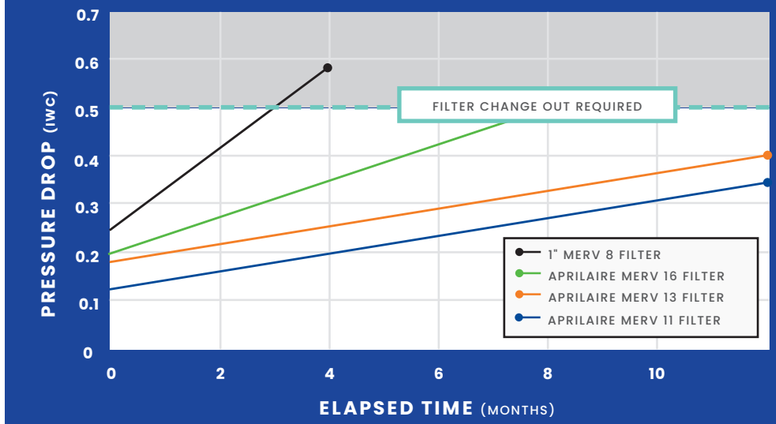
APRILAIRE MODEL 213
(12 MONTHS)



*Area of a 20" x 25"

Unlock the Benefits with an AprilAire Air Cleaner.

3. Pressure Drop vs. Time (20x25 Filter w/ 3-Ton System)



Even after 12 months, AprilAire Filters aren't overly restrictive thanks to having over nine times the surface area of a 1" filter. They also start with an extremely low initial resistance and high capacity for holding dust. It all helps maintain proper airflow, which results in reduced potential call backs.

1. Reduce Callbacks
2. Low System Static
3. Longer Filter Life
4. Traps More Particles
5. Low Bypass

4. Particle Size Efficiency % Ashrae Min. Required

AprilAire Filters don't just meet the ASHRAE minimum standards, they blow them away.

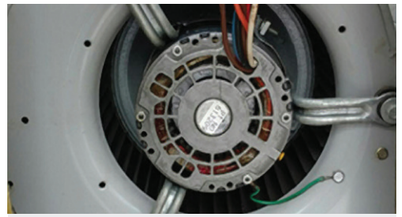
FILTER TYPE	0.3–1 µm (micron)	1–3 µm (micron)	3–10 µm (micron)
MERV 8	-	-	70
MERV 11 (ASHRAE MIN.)	20	65	85
APRILAIRE MERV 11	37	67	92
APRILAIRE MERV 13	63	88	93
APRILAIRE MERV 16	95	98	99

BLOWER WITH BASIC 1" FILTER



Dirt and dust have built up, making an inefficient blower.

BLOWER WITH APRILAIRE FILTER



Actual 22 year old blower protected by AprilAire Filter.
COURTESY OF ROB PETERS, PETERS REFRIGERATION

Our Products Go With the Flow, Yet We Always Lead.

AprilAire is the leader in IAQ and whole-home filtration. We offer homeowners and installers peace-of-mind and assurance that all aspects of our filters come together to provide the best air cleaner on the market today. Aspects of our filters come together to provide the best air cleaner on the market today.

PURE FIT PROMISE

Pure Fit Promise

We make our genuine AprilAire replacement Filters to fit perfectly into our air cleaner cabinet.

SELF-SEAL TECHNOLOGY

Self-Seal Technology

Our patented technology creates a seal to reduce the amount of air bypassing the filter.

INTERLOCK RAIL SYSTEM

Interlock Rails

Our filter slides securely onto our patented rail system to assure optimal performance–no plastic or metal reinforcements necessary.

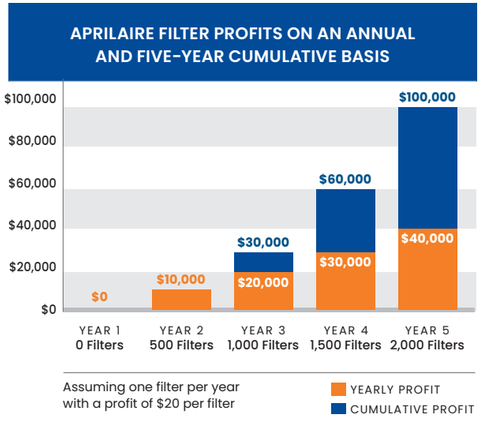
CLEAN COIL COMMITMENT

Clean Coil Guarantee

If an AC coil protected by an AprilAire Filter requires cleaning within 10 years of install, we will pay $100 toward that service.

For Better Profits, Provide Better Air.

When you add an AprilAire Air Cleaner to every job, you're not only improving system protection and indoor air quality, but you're also increasing your chances for additional revenue thanks to annual filter replacement with system check-ups and service agreements. Plus, the addition of Healthy Air 16 and Healthy Air 13+ Air Filters to our lineup gives you even more replacement filter options to offer your customers.





AprilAire offers upgrade rail kits that fit into our older AprilAire and Space-Gard cabinets (Models 2200 and 2400). We also offer competitive upgrade rails that fit into a variety of air cleaners made by other manufacturers.* Both types of rails allow you to use the same high-performance filters that fit into the air cleaners we offer today. This means you can earn even more revenue from AprilAire replacement Filters on every air cleaner you've installed—past, present, and future.

**See Upgrade Kit Specifications page for a complete list of model numbers and compatible air cleaners.*

What's in a Name? Not Much if They Don't Remember It.

Help keep your name on top of your customers' minds by imprinting our air cleaner doors with your logo and contact information. When they need a new air filter, they'll know exactly who to contact. Reach out to your District Sales Manager for more information.

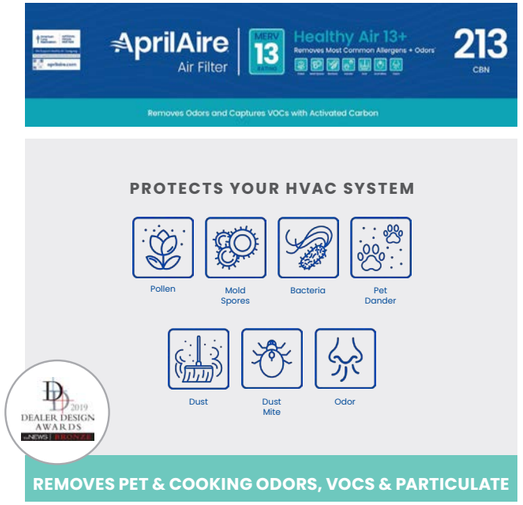


The Right Filter for Every Home

American Lung Association. | NATIONAL PROUD PARTNER
We Support Healthy Air | Lung.org



- MERV 16 performance
- Captures 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

Features and Benefits

AprilAire Air Cleaner Features

- Most models compatible with AprilAire MERV 16, MERV 13+, MERV 13 and MERV 11 Air Filters.*
  *See chart at top of opposite page.
- Minimal maintenance required - simply replace filters once every 6 months to 1 year.**
  **See previous page for filter life recommendations.
- Load rated up to 400 lbs.
- UL listed

5-year warranty on all installed products
(warranty does not apply to filters)

Designed & Engineered in the USA
* with US and imported parts



1000 Series MERV 11 Air Filter

- MERV 11 Filters are designed for low static pressure on higher tonnage residential HVAC installations including geothermal systems, eliminating the need for multiple Air Cleaners on one system
- Made of corrosion-resistant heavy-gauge galvanized steel



2000 Series with MERV 13 Air Filter

- Made of corrosion-resistant heavy-gauge pre-painted steel
- Low resistance



2000 Series with MERV 16 Air Filter

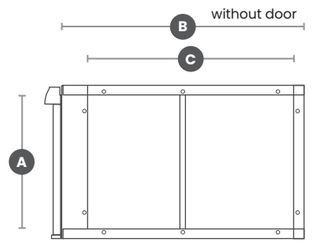
- Offers the best performance in terms of particulate removal, system protection, and relief for allergy and asthma sufferers
- MERV 16 Filters offer the lowest resistance with a MERV 16 filter in the industry designed for higher tonnage systems
- Made of corrosion-resistant heavy-gauge pre-painted steel

Cabinet Specifications

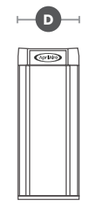


Air Cleaner Series	16x20	20x25	20x20	16x25	31x28	25x20
2000 SERIES Ships with MERV 16	–	2216	–	2416	2516	–
2000 SERIES Ships with MERV 13	–	2210	2310	2410	–	–
1000 SERIES Ships with MERV 11	1110	1210	1310	1410	1510	1910

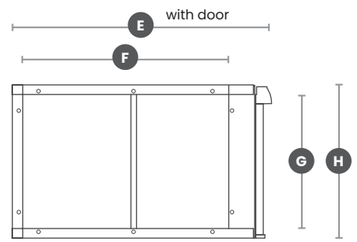
Inlet Side Return Duct Connection



Front



Outlet Side Furnace Connection



Dim.	Description	16x20	20x25	20x20	16x25	31x28	25x20
A	Inlet Opening Height	15 7/16" (392mm)	19 3/4" (502mm)	18 1/16" (459mm)	15 7/16" (392mm)	28 23/32" (729mm)	22 3/4" (578mm)
B	Outer Housing Depth without Door	20 1/16" (510mm)	25 3/8" (645mm)	20 1/16" (510mm)	28 1/16" (713mm)	28 1/16" (713mm)	20 1/16" (510mm)
C	Inlet Opening Width	17 3/8" (441mm)	21 3/16" (538mm)	15 7/8" (403mm)	23 7/8" (606mm)	23 7/8" (606mm)	15 7/8" (403mm)
D	Unit Width	6 3/4" (171mm)	6 3/4" (171mm)	6 3/4" (171mm)	6 3/4" (171mm)	6 3/4" (171mm)	6 3/4" (171mm)
E	Outer Housing Depth with Door	22 1/16" (560mm)	27 3/8" (695mm)	22 1/16" (560mm)	30 1/16" (764mm)	30 1/16" (764mm)	22 1/16" (560mm)
F	Outlet Opening Width	17 3/8" (441mm)	21 3/16" (538mm)	15 7/8" (403mm)	23 7/8" (606mm)	23 7/8" (606mm)	15 7/8" (403mm)
G	Outlet Opening Height	15 7/16" (392mm)	19 3/4" (502mm)	18 1/16" (459mm)	15 7/16" (392mm)	28 23/32" (729mm)	22 3/4" (578mm)
H	Unit Height	17 3/4" (451mm)	22 1/16" (560mm)	20 3/8" (518mm)	17 3/4" (451mm)	31" (787mm)	25 1/16" (637mm)

EASY INSTALL* Ships with MERV 11					FILTER GRILLE**		
Normal Size (in inches)			MODEL			MODEL	Replacement Media
	16x25*		1610	16x25**		1625FG11	610
						1625FG13	613
	20x25*		1620	20x25**		2025FG11	810
						2025FG13	813

*See full dimensions and list of compatible filter models on page 11 **See full dimensions on page 10

Filter Specifications



Filter Series	16x20	20x25	20x20	16x25	31x28	25x20
MERV 16 HEALTHY AIR 16 AIR FILTER	-	216	-	416	516	-
MERV 13+ HEALTHY AIR 13+ AIR FILTER	-	213CBN	-	413CBN	513CBN	-
MERV 13 HEALTHY AIR 13 AIR FILTER	113	213	313	413	513	913
MERV 11 HEALTHY AIR 11 AIR FILTER	110	210	310	410	510	910

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%
EAC (Model 5000)	89%	95%	98%

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

DISCONTINUED/LEGACY PRODUCT - REPLACEMENT FILTERS

	Filter No.	Nominal Size (in inches)	Used with AprilAire Air Cleaner Models	Static Pressure Drop (in. w.c.) @ 1200 CFM	Maximum Airflow Capacity (in CFM)
MERV 13	**613**	16 x 25	1625FG13	0.22	1600
	813	20 x 25	2025FG13	0.15	2000
MERV 11	**610**	16 x 25	1625FG11	0.17	1600
	810	20 x 25	2025FG11	0.11	2000
MERV 10	**201**	20 x 25	2200 Space-Gard*, 2200 AprilAire*	0.12	2000
	401	16 x 25	2400 Space-Gard*, 2400 AprilAire*	0.14	2000
EAC	**501**	16 x 25	5000	0.14	2000

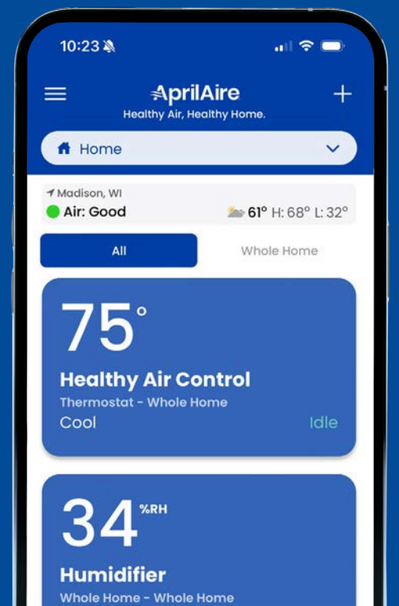
*Air Cleaner models no longer available.

Upgrade Kit Specifications

	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	2200 Space-Gard Units	210, 213, 213CBN	2000
	#4894	16x25	2400 Space-Gard Units	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

*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



Industry-Exclusive Features With the Healthy Air App

+ Ability to control temperature and all IAQ equipment
+ Event-Based™ Air Cleaning and Fresh Air Ventilation Control
+ Automatic humidifier control with accurate ODT control points
+ Automatic dehumidifier control
+ Temperature overrides for instant comfort (“Heat Blast”) and maximum energy savings (“Away”)
+ All screens display the status of all IAQ and HVAC equipment
+ 3-day weather forecast with pollen and mold levels
+ Features disabled from thermostat are automatically removed from the app
+ Informs homeowners on the benefits of IAQ control
+ “Product Not Installed” screen suggests additional IAQ products
+ Easy to identify and access “Help” screens
+ The navigation bar is visible from any screen. It shows all control options and status of equipment (on, off, or idle). When first entering the app, the screen will always default to temperature.
+ Filter replacement alerts
+ Conveniently purchase replacements through the app.
+ Personalized air quality insights and education

Filter Specifications

PRESSURE DROP CHART

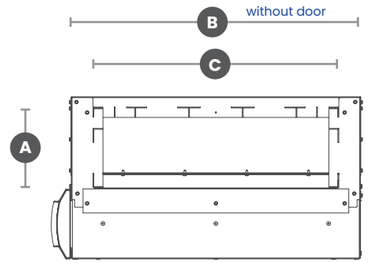
	FILTER NO.	STATIC PRESSURES AT VARIABLE CFM (IN. W.C.)*														
		200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
MERV 16	216		0.06	0.09	0.13	0.17	0.23	0.29	0.36							
	416		0.07	0.10	0.13	0.18	0.24	0.31								
	516		0.04	0.05	0.07	0.09	0.10	0.13	0.15	0.18	0.21	0.24	0.27	0.31		
MERV 13	113	0.02	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	0.08	0.12	0.17	0.22	0.28	0.35	0.42	0.51					
	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+	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	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	0.01	0.03	0.06	0.09	0.12	0.17	0.22	0.27	0.34	0.41					
	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.

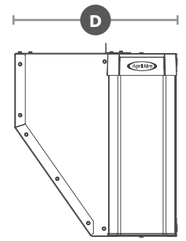
1610/1620 Easy Install Air Cleaner

MODEL 1610 SPECIFICATIONS AND SIZING SUMMARY				
Model	Nominal Size (in inches)	Shipping Weight	Replacement Filter	
			Ships With	Upgrade To
1610	16 x 25	31 lbs.	Model 410	Model 416, 413CBN, 413
1620	20 x 25	32.4 lbs.	Model 210	Model 216, 213CBN, 213

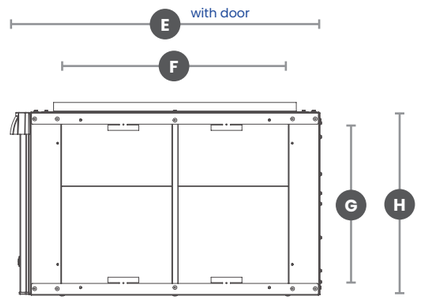
Inlet Return Duct Connection (Top View)



Front



Outlet Side Furnace Connection



Dimension	Description	Model 1610	Model 1620
A	Inlet Opening Width	8 3/32" to 10 3/32" (206-257mm)	8 3/32" to 10 3/32" (206-257mm)
B	Outer Housing Depth without Door	28 3/16" (716mm)	25 3/8" (645mm)
C	Inlet Opening Depth	23 7/8" (606mm)	21 3/32" (536mm)
D	Unit Width	15 11/16" (398mm)	15 11/16" (398mm)
E	Outer Housing Depth with Door	30 3/16" (767mm)	27 3/8" (695mm)
F	Outlet Opening Width	22" (559mm)	19 5/16" (491mm)
G	Outlet Opening Height	15 1/2" (394mm)	19 3/4" (502mm)
H	Unit Height	17 13/16" (452mm)	22 1/8" (562mm)



The Models 1610 and 1620 are designed for easy installation in upflow HVAC systems with right or left returns. They feature built-in ductwork for applications that require a 90° duct adapter and an 8–10" adjustable return opening.

FEATURES

- Ships with Healthy Air 11 Filter
- Can be upgraded to MERV 16, Odor Reduction, or Healthy Air 13 Filter with simple filter change
- Easily converts to right or left side by reversing door and back plate
- Includes metal tabs for securing the Air Cleaner frame to the furnace or air handler
- Simple annual filter replacement
- Made of corrosion-resistant heavy gauge pre-painted steel
- Proprietary door design and Self-Seal® design virtually eliminates air bypass for optimal performance
- UL classified filters
- Five-year warranty on cabinet from date of installation

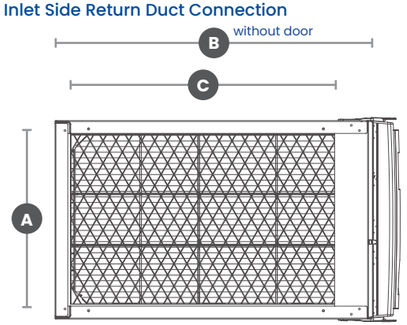
BENEFITS

- Reduces installation time — no need for field-formed transitions — requires little or no cold air return repositioning
- Protects HVAC equipment from dust buildup
- Protects equipment performance
- Superior performance over one-inch panel filters and four-inch cartridge filters

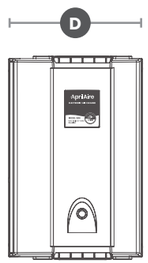
5000 Electronic Air Cleaner

MODEL 5000 SPECIFICATIONS AND SIZING SUMMARY			
Nominal Size (in inches)	**Shipping Weight**	**Replacement Filter**	**Filtering Area**
16 x 25	38 lbs.	Model 501	72.3 ft²

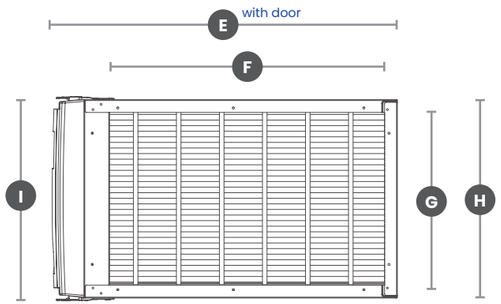
Inlet Side Return Duct Connection



Front



Outlet Side Furnace Connection



Dimension	Description	Model 5000
A	Inlet Opening Height	15½" (394mm)
B	Outer Housing Depth without Door & Clips	28⅛" (714mm)
C	Inlet Opening Width	23⅞" (606mm)
D	Unit Width	12" (305mm)
E	Outer Housing Depth with Door & Clips	31" (787mm)
F	Outlet Opening Width	23⅞" (606mm)
G	Outlet Opening Height	15½" (394mm)
H	Unit Height at Back	17 ¾" (451mm)
I	Unit Height at Front	1¼" (464mm)



The Model 5000 greatly minimizes airborne contaminants that can aggravate allergies as well as asthma, cold, and flu symptoms. Captures 89% of particles 0.3–1.0 micron in size and 98% of particles 3.0–10.0 microns in size.

FEATURES

- Silent operation — none of the "snapping" or "popping" that's common with plate-type EACs
- Minimal maintenance required — simply replace filter annually and wipe off internal components
- Made of corrosion-resistant heavy gauge galvanized steel
- UL listed cabinet
- UL classified filters
- Load rated up to 400 lbs.
- Five-year warranty on cabinet from date of installation
- Unit is equipped with six ft. grounded cord with plug
- Consumes less than 50 watts with high voltage active

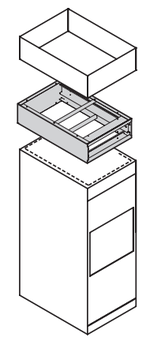
BENEFITS

- Captures 89% of particles 0.3–1.0 micron in size and 98% of particles 3.0–10.0 microns in size
- Offers equipment protection from dust buildup
- Protects equipment performance
- Superior performance over one-inch panel filters and four-inch cartridge filters

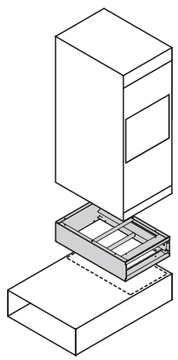
ELECTRICAL SPECIFICATIONS	
Voltage	120 VAC ± 15%
Frequency	60Hz
Current	0.3 A

Application Guidance

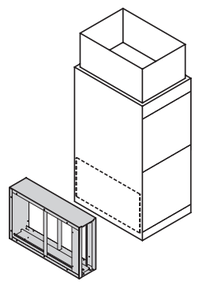
AprilAire's award-winning lineup of air cleaners are sized to fit the many different furnace and air handler dimensions available today. No matter if it's a downflow, upflow, or horizontal system, AprilAire has the right sizes available to make your installations easier.



Top Mount

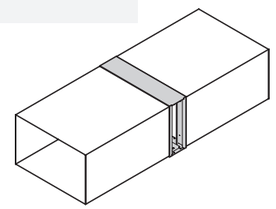


Bottom Mount



Side Mount

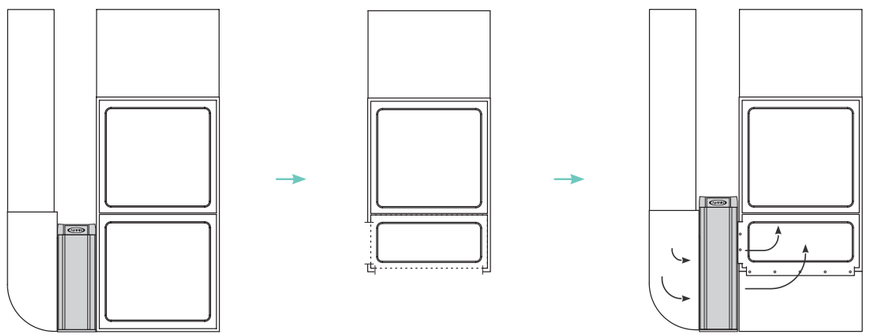
Sizes
16" x 20"
16" x 25"
20" x 20"
20" x 25"
25" x 20"



Horizontal Mount

It's All About Airflow

Equipment cabinet sizes are getting smaller. Use the smaller size cabinet as an opportunity to increase airflow and ensure the best system protection by installing a Model 2516 cabinet with a Healthy Air 16 Filter. The lower static pressure and higher removal efficiency will optimize the HVAC system for years to come.



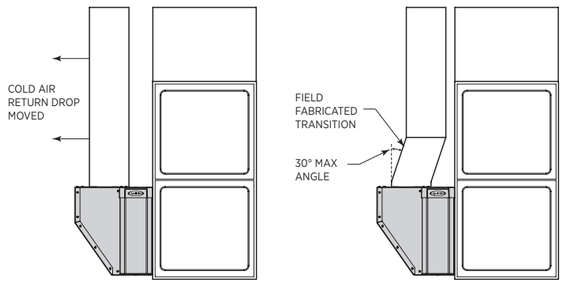
Old Furnace Cabinet

New, Shorter Cabinet
Cut out top and bottom air discharge

Adjusted Cabinet
Insert return air box below cabinet for increased airflow

Application Guidance

Contractors have done the math. Using the Model 1610/1620 with its integrated transition is a cost effective solution. There is no need to purchase a separate transition.

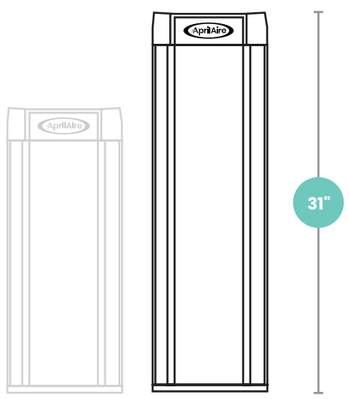


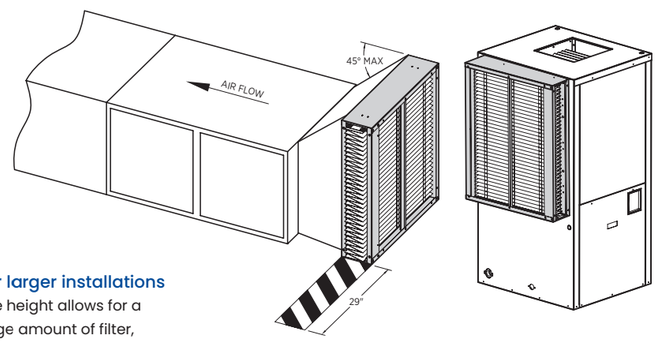
BENEFITS

- Minimizes distance from the air handler for tight installations
- Perfect when return is close to air handler, when replacing 1" or 2" panel filter slots
- Converts easily to right or left side
- Unique air inlet tab adjusts to multiple duct sizes

High Tonnage and Geothermal Systems

The system pressures of these applications require very low resistance. Historically, contractors stack air cleaners. The AprilAire Models 2516 and 1510 are specifically designed for these applications.





For larger installations
The height allows for a large amount of filter, lowering resistance.

AprilAire

HEALTHY AIR SYSTEM®

- Air Cleaning
- Radon Control
- Humidity Control
- Control & Zoning
- Fresh Air
- UVC Sanitize

The AprilAire Healthy Air System®

Offer your customers a comprehensive, all-in-one IAQ solution. The most effective way to provide Healthy Air is by installing a whole-house AprilAire Healthy Air System® which provides fresh air ventilation, humidity control, zoning and IAQ control, UVC sanitization, and radon mitigation.

Scan to **Learn More**



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