

***Manufacturers of Residential Whole House Indoor Air Quality Products***

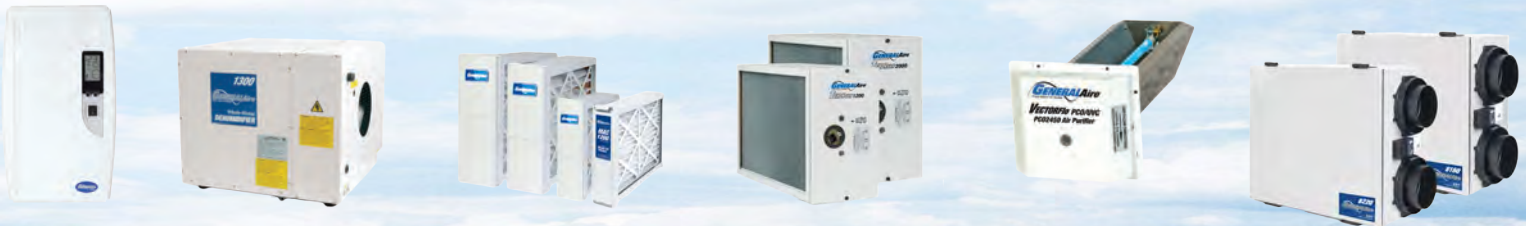
Humidifiers - Dehumidifiers - Air Cleaners  
UV Air Purifiers - Heat/Energy Recovery Ventilators



# ***Product Guide***

***Breathe Healthier***

***Quality IAQ products manufactured and / or assembled in Michigan, USA. In Business Since 1937.***



# Indoor Air & Your Health

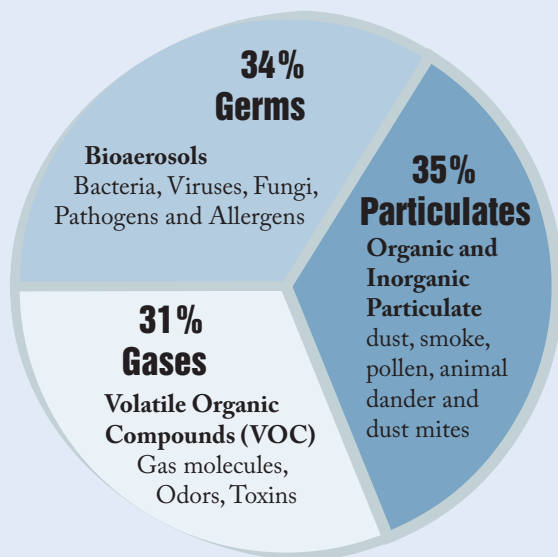
**The air we breathe indoors is 2 to 5 times more polluted than the air we breathe outdoors!**

The average person spends 90% of their time indoors. Your health could be at risk!

**The Center for Disease Control and Prevention categorizes indoor air pollution into three main categories:**

## **Particulates, Gases, and Germs.**

- 35% of allergic reactions are caused by particulates in the air we breathe indoors.
- 34% of allergic reactions are caused by germs.
- 31% of allergic reactions are caused by chemical gases found present in the air we breathe in our homes and at work.

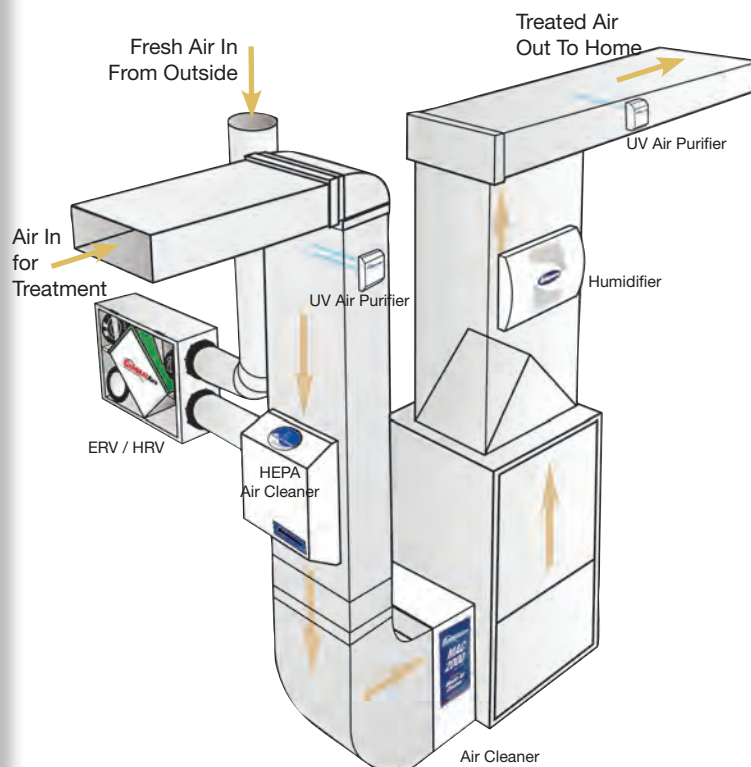


Improper humidity levels, dangerous gas molecules, mold spores, germs, and microscopic particulates all affect our long term health and comfort. GeneralAire® has the answer to significantly reduce harmful airborne contaminants in the air we breathe.

**Easily install a GeneralAire® Humidifier, UVC Air Purifier, HEPA Air Cleaner or MAC Series Air Cleaner and an ERV/HRV in your HVAC system for a complete indoor air quality system.**

Located out of site and part of your HVAC system, your GeneralAire® whole house unit protects your home 24/7; 365 days a year. In addition, a whole house unit is more quiet than room models and requires less maintenance. And, a whole house unit treats the *whole house* so you know your family and valuables are protected throughout your home.

***Breathe Healthier*** with GeneralAire® residential, *whole house* indoor air quality products.



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## *Residential, Whole-House:*



### **Humidifiers**

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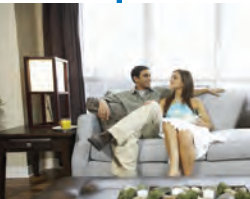
Improve indoor comfort and health with a GeneralAire® humidifier. Dry air robs moisture from you, your pets, plants, furniture and anywhere it can be found. Browse the selection of Steam, Flow-Through, and Reservoir Models to meet your humidification needs.



### **UV Air Purifiers**

**Pages 14-17**

Bring the outdoor sun inside with GeneralAire® Whole House UV Light Purifiers to significantly reduce levels of unwanted airborne micro-organisms, germs, bacteria and gaseous contaminants. Impressive UV Light technology methods are applied to eliminate indoor air pollution; just like the powerful, purifying rays of the sun outdoors.



### **ERV / HRV**

**Pages 18-21**

Introduce fresh outside air to the indoors for better indoor air quality, with a GeneralAire® HRV or ERV. An impressive selection of control options and features make GeneralAire® ventilation systems a preferred solution to fresher indoor air quality.



### **Dehumidifiers**

**Pages 18-21**

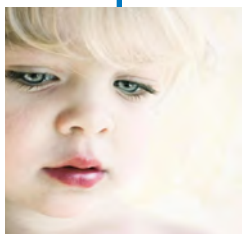
Protect and control your indoor air from those sticky hot summer months for a more comfortable, healthier home. Indoor air can become wet and musty in the summer months and damp climates. We offer a highly-effective whole-house moisture-reducing solution.



### **Air Cleaners**

**Pages 22-25**

GeneralAire® offers high efficiency air filtration options for clean, fresh, healthy air. HEPA filtration offers relief from indoor allergic reactions due to airborne particulates with 99.97% efficiency at .30 micron. Our newest technology, TERSus, removes all three sources of indoor air pollution and utilizes MERV 13 filtration!



### **Replacement Filters**

**Pages 27-28**

### **Accessories**

**Pages 29-32**

### **Reference**

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***Breathe Healthier***



# Elite Series Steam Humidifiers



## How Our Steam Humidifiers Work

Your steam humidifier passes electric current between electrodes inside the unit's cylinder, heating the water within to create steam. The steam is then dispersed throughout your home for healthier, more comfortable air.

*Learn how to size and select a steam humidifier on page 36. Go to [www.generalaire.com](http://www.generalaire.com) and use our easy humidification calculator to quickly evaluate how much humidity your home needs.*

## Maintenance of an Electrode Steam Humidifier

Maintenance of your steam humidifier is minimal. As water evaporates inside the steam cylinder, minerals left behind are flushed down the drain. Over time some minerals build up on the cylinder walls and electrodes, reducing your unit's ability to create steam. When you see the E6 Cylinder Exhausted Code, simply replace your cylinder (approximately once per year).

*For your safety and the longevity of your steam humidifier, all maintenance and repairs should be performed by a licensed contractor.*



RS models include the automatic GFX3 Humidistat. Learn more about this intelligent device on page 29.

GFI #7050

## Brand Cross Reference

	APRILAIRE®	CAREL	NEPTRONIC	NORTEC	DRI-STEAM	HONEYWELL
GeneralAire® Elite Steam RS15P		CHF02V1	SKR14	RH Space		
GeneralAire® Elite Steam RS 25; RS25LC		CHF05V2	SKR25/30/40	RH Space		
GeneralAire® Elite Steam DS15P	800	CH002V1	SKR14	RH Duct	VT-2	HM512 HM509
GeneralAire® Elite Steam DS25; DS25LC	1150	CH005V2	SKR25/30/40	RH Duct	VT-4 XT-10	
GeneralAire® Elite Steam DS50; DS50LC	1160	CH009V2	SK306	NHTC020	XT-20	



## Model RS15P GFI #5548

### Elite Series Steam Humidifier

- Drain Pump Design
- Integral Room Steam Blower
- Automatic Humidistat
- LCD user interface
- Drain tempering
- AHU Fan Relay
- Electrode Steam Generating Technology
- GFX3 Automatic Digital Humidistat included

### Specifications

Power Supply  
120Vac 50/60Hz

Steam Output  
5.5 lbs/hr

Gallons per Day  
15.8

Dimensions  
13 1/8" W x 23 3/4" H x 8 1/4" D



GFX3  
GFI #7050

## Model RS25 GFI #5547

## Model RS25LC GFI #5543

### Elite Series Steam Humidifier

- Drain Pump Design
- Integral Room Steam Blower
- Automatic Humidistat
- LCD User Interface
- Drain Tempering
- AHU Fan Relay
- Electrode Steam Generating Technology
- GFX3 Automatic Digital Humidistat included

### Specifications

Power Supply  
230Vac 50/60Hz

Steam Output  
9-12 lbs/hr

Gallons per Day  
25-35

Dimensions  
13 1/8" W x 23 3/4" H x 8 1/4" D

\* LC = (Low Conductivity Cylinder) Standard



GFX3  
GFI #7050

## Model DS15P\* GFI #5528

### Elite Series Steam Humidifier

- Drain Pump Design
- Requires duct mount or remote blower kit
- Automatic Humidistat
- LCD User Interface
- Drain Tempering
- AHU Fan Relay
- Electrode Steam Generating Technology

### Specifications

Power Supply  
120Vac 50/60Hz

Steam Output  
5.5 lbs/hr

Gallons per Day  
15.8

Dimensions  
13 1/8" W x 23 3/4" H x 8 1/4" D

\*DS models require installation kit selection  
*See next page for options*



## Model DS25\* GFI #5524

## Model DS25LC\* GFI #5527

### Elite Series Steam Humidifier

- Drain Pump Design
- Requires duct mount or remote blower kit
- Automatic Humidistat
- LCD User Interface
- Drain Tempering
- AHU Fan Relay
- Electrode Steam Generating Technology

### Specifications

Power Supply  
230Vac 50/60Hz

Steam Output  
9-12 lbs/hr

Gallons per Day  
25-35

Dimensions  
13 1/8" W x 23 3/4" H x 8 1/4" D

\*DS models require installation kit selection  
*See next page for options*

\*LC = (Low Conductivity Cylinder) Standard



## Model DS50 GFI #5530

## Model DS50LC GFI #5535

### Elite Series Steam Humidifier

- Drain Pump Design
- Digital ON / OFF Modulating Humidistat
- LCD User Interface
- Drain Tempering
- AHU Fan Relay
- Electrode Steam Generating Technology
- GFX50 Humidistat Included

### Specifications

Power Supply  
230Vac 50/60Hz

Steam Output  
20 lbs/hr

Gallons per Day  
50-58

Dimensions  
18" W x 31" H x 14" D









\*LC = (Low Conductivity Cylinder) Standard








GFX50  
GFI #7519

# Elite Series Steam Humidifiers

## Model Selection Chart

GeneralAire® Elite Steam Humidifier Selection Guide																
	Model	Type Voltage	Capacity	Electrode Technology	Replacement Steam Cylinder	Integrated Mount Blower	Capacity Adjustment	Remote Enable & Alarm Relay	LCD Graphic Display	Continuity Sensor	Foam Control Sensor	Proportional 0 to 10V and ON-OFF	Cylinder Hour Counter	Auto Drain 3 Day Off	AHU Fan Relay	
GeneralAire® Elite Steam 	RS15P GFI #5548	Room Steam 120V	5.5 lbs/hr 15.84 GPD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
GeneralAire® Elite Steam 	RS25 GFI #5547	Room Steam 230V	9-12 lbs/hr 25-35 GPD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	RS25LC GFI #5543				Low Conductivity											
GeneralAire® Elite Steam 	DS15P GFI #5528	Duct Steam 120V	5.5 lbs/hr 15.84 GPD	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
GeneralAire® Elite Steam 	DS25 GFI #5524	Duct Steam 230V	9-12 lbs/hr 25-35 GPD	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	DS25LC GFI #5527				Low Conductivity											
GeneralAire® Elite Steam 	DS50 GFI #5530	Duct Steam 230V	20 lbs/hr 50-58 GPD	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	DS50LC GFI #5535				Low Conductivity											
Duct Mount Kit 	DMNKIT GFI #7525	Accessory Kit Option for DS25(LC) DS15P	Installation kit selection required for installation of DS models													
	EDMK4 GFI #7675															
Remote Blower Kit 	RMB35 GFI #7540	230V Accessory Kit Option for DS25(LC)	Installation kit selection required for installation of DS models													
Remote Blower Kit 	RMB15 GFI #7545	120V Accessory Kit Option for DS15P	Installation kit selection required for installation of DS models													

\*DS models require kit selection for installation

Brand Cross Reference															
Auto Drain Tempering	Drain Pump Design	Steam Nozzle	Steam Hose	Condensate	Fill Connector	GFX3 Automatic Digital Humidistat	GFX50 Modulating ON/OFF Humidistat	Water Supply Tubing Kit	Air Pressure Proving Switch	Through Wall Blower Kit	Grille Package	Code Valve GCV3412 Ball Valve	Warranty	Replacement Steam Generating Cylinder	
Yes	Yes				Yes	Yes		Yes				Yes		15-14	CHF02V1
Yes	Yes				Yes	Yes		Yes				Yes		35-14 35-15	CHF05V2
Yes	Yes													15-14	800
Yes	Yes													35-14 35-15	1150
Yes	Yes	Yes	Yes	Yes	Yes		Yes					Yes		50-14 50-15	1160
		Yes	8ft 4ft	9ft 5ft	Yes No	Yes No		Yes No	Yes			Yes			
			12ft	13ft	Yes	Yes		Yes	Yes	Yes	Yes	Yes			
			12ft	13ft	Yes	Yes		Yes	Yes	Yes	Yes	Yes			

# Elite Series Humidifiers



## How Our Elite Series Humidifiers Work

**570 & 900:** Your furnace sends warm air through the unit, evaporating water within. Moistened air is then delivered through your home through your home's duct system, keeping your air healthy.

**1000:** A fan inside the 1000 pulls warm air through the unit and its highly-evaporative Vapor Pad®. Moistened air is then delivered to your home through your home's duct system for improved air quality and comfort.

## Maintenance of an Elite Series Humidifier

Maintenance of your Elite Flow Through humidifier is minimal. Simply change your vapor pad once per year!

## Brand Cross Reference

	LEGACY	APRILAIRE®	HONEYWELL	SKUTTLE	TRION
GeneralAire® Elite 570M		550 500M	220A 225A 225H	2000	G200
GeneralAire® Elite 900M	SL16 1042	600M 560	260A 265A 265H	2001	G300
GeneralAire® Elite 1000M	1137	700M 760	360A 365A 365H	2002	G100
GeneralAire® Elite 570A		500A	220B 225B 225DG		
GeneralAire® Elite 900A	1099		360B 365B 365DG		
GeneralAire® Elite 1000A	1137	700A	360B 365B 365DG	2002	G100



## Model 1000M

### Elite Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat is included.



## Model 1000A

### Elite Series Humidifier

- Included: Our GFX3 Automatic Humidistat. Use in manual or automatic mode (by installing an outdoor sensor that automatically maintains your selected humidity level despite outdoor temperature fluctuations).



#### Specifications

Unit Size  
16" W x 16-1/2" H x 10" D

Plenum Opening  
14" W x 12" H

Fan-powered unit mounts easily on the warm air plenum and delivers 18 GPD. For homes up to 3,000 Sq. Ft.

Vapor pad replacement number GA19 (GFI #7919). Replace once per year.



Model 1000M  
GFI #5735

Model 1000A  
GFI #5730

## Model 900M

### Elite Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat is included.



## Model 900A

### Elite Series Humidifier

- Included: Our GFX3 Automatic Humidistat. Use in manual or automatic mode (by installing an outdoor sensor that automatically maintains your selected humidity level despite outdoor temperature fluctuations).



#### Specifications

Unit Size  
12" W x 16-1/2" H x 10" D

Plenum Opening  
8-3/4" W x 12" H

Bypass Duct  
6" Diameter

Bypass humidifier mounts easily on the warm or return plenum and delivers 17 GPD. For homes up to 2,800 Sq. Ft.

Vapor pad replacement number GA19 (GFI #7919) or 990-13 (GFI #7002). Replace once per year.



Model 900M  
GFI #5725

Model 900A  
GFI #5720

## Model 570M

### Elite Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat is included.



## Model 570A

### Elite Series Humidifier

- Included: Our GFX3 Automatic Humidistat. Use in manual or automatic mode (by installing an outdoor sensor that automatically maintains your selected humidity level despite outdoor temperature fluctuations).



#### Specifications

Unit Size  
11-7/8" W x 13-3/8" H x 9-1/2" D

Plenum Opening  
8-3/4" W x 9.5" H

Bypass Duct  
6" Diameter

Bypass humidifier mounts easily on the warm or return plenum and delivers 12 GPD. For homes up to 2,000 Sq. Ft.

Vapor pad replacement number GA10 (GFI #7900). Replace once per year.






Model 570M  
GFI #5705






Model 570A  
GFI #5710

# Elite Series Humidifiers

## Model Selection Chart

**GeneralAire® Elite Series Humidifier Selection Guide**

	Model	Type	Gallons per Day @ 120 Deg.	Square Footage Covered <small>O/S Design Temp: 0°F/O/S Design RH: 70%/I/S Design Temp: 70°F/I/S Design RH: 30%Furnace 8hrs/24hr Period 8ft Ceilings/.30ACH Cold Water Supply</small>	Humidity When System Fan Operates	Humidistat Included					
							Controls Dew Point	24V Automatic Humidity Control Outdoor Temperature Compensation	Prevents Condensation on Windows	Auto / Manual Modes & Outdoor Temperature Display	
GeneralAire® Elite 	570M GFI #5705	Flow Through 6" Bypass	12	Up to 2000	Yes	Yes MHX3					
GeneralAire® Elite 	900M GFI #5725	Flow Through 6" Bypass	17	Up to 2800	Yes	Yes MHX3					
GeneralAire® Elite 	1000M GFI #5735	Flow Through Fan Power	18	Up to 3000	Yes	Yes MHX3					
GeneralAire® Elite 	570A GFI #5710	Flow Through 6" Bypass	12	Up to 2000	Yes	Yes GFX3	Yes	Yes	Yes	Yes	
GeneralAire® Elite 	900A GFI #5720	Flow Through 6" Bypass	17	Up to 2800	Yes	Yes GFX3	Yes	Yes	Yes	Yes	
GeneralAire® Elite 	1000A GFI #5730	Flow Through Fan Power	18	Up to 3000	Yes	Yes GFX3	Yes	Yes	Yes	Yes	

Brand Capacity Cross Reference													
		KineticFlo® Distribution Trough for Even Water Distribution Across Vapor Pad®	Integrated Bypass Damper	Warranty	Stainless Steel Solenoid Valve Seat	Code Valve GCV3412 Ball Valve	DuraPlast® UV Stable Pad Frame	Replacement Vapor Pad®	LEGACY	APRILAIRE®	HONEYWELL	SKUTTLE	TRION
	Optional Outdoor Sensor Included												
		Yes	Yes		Yes	No	Yes	GA10 Repl 1/Yr		550 500M	220A 225A 225H	2000	G200
		Yes	Yes		Yes	No	Yes	GA19 or 990-13 Repl 1/Yr	SL16 1042	600M 560	260A 265A 265H	2001	G300
		Yes	No		Yes	No	Yes	GA19 or 990-13 Repl 1/Yr	1137	700M 760	360A 365A 365H	2002	G100
	Yes	Yes	Yes		Yes	Yes	Yes	GA10 Repl 1/Yr		500A	220B 225B 225DG		
	Yes	Yes	Yes		Yes	Yes	Yes	GA19 or 990-13 Repl 1/Yr	1099		360B 365B 365DG		
	Yes	Yes	No		Yes	Yes	Yes	GA19 or 990-13 Repl 1/Yr	1137	700A	360B 365B 365DG	2002	G100

# Legacy Series Humidifiers



## How Our Legacy Humidifiers Work

- 1099LHS, 1042LH and SL16:** A portion of the heated air from the furnace passes through a water-soaked pad where it absorbs additional moisture and then returns for distribution throughout your home. Water is metered into the KineticFlo trough and dispersed uniformly across the pad. Unevaporated water drains from the bottom of the unit to eliminate mineral build-up.
- 1137:** A fan inside your 1137 pulls warm air from your furnace through the water-soaked Vapor Pad®, where it absorbs additional moisture. The moistened air then returns for distribution throughout your home via your home's duct system.
- 81:** Inside the 81 a drum and evaporator sleeve continually rotate through a water-filled trough. Warm air from your furnace passes through the unit and soaked evaporator sleeve to deliver moistened, healthier air to you and your family.

## Maintenance of your Legacy Humidifier

To ensure peak performance of your humidifier, simply change the Vapor Pad® (Evaporator Sleeve for the 81) once per year and clean any mineral deposits for the water trough and pan. A solution of 1/2 vinegar and 1/2 water is suggested.

See pages 13-14 for Vapor Pad® / Evaporator Pad replacement information.

## Brand Cross Reference

	ELITE	APRILAIRE®	HONEYWELL	SKUTTLE	TRION	SOURCE-1
GeneralAire® Legacy SL16	900	600M	260A 265A 265H	2001	G300	S1-HU17MB
GeneralAire® Legacy 1042LH	900	600M	260A 265A 265H	2001	G300	S1-HU17MB
GeneralAire® Legacy 1099 LHS	950					
GeneralAire® Legacy 1137	1000	700M	360A 365A 365H	2002	G100	S1-HU18MP
GeneralAire® Legacy Drum 81			HE120A	90		

## Model 1137

### Legacy Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat gives you the ability to control your humidity comfort level.
- Fan-powered unit mounts easily on the warm air plenum and delivers 21 GPD.
- Replacement Vapor Pad number 990-13 (GFI #7002). Replace once per year.

### Specifications

Unit Size  
16" W x 14" H x 10" D

Plenum Opening  
15" W x 9-1/2" H

For homes up to 3,000 Sq. Ft.



GFI #5137

## Model 1099LHS

### Legacy Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat gives you the ability to control your humidity comfort level.
- A high-capacity model delivers 23 GPD and is ideal for today's larger homes.
- Replacement Vapor Pad number 1099-20 (GFI #7047) or GA23 (GFI #7923). Replace once per year.

### Specifications

Unit Size  
16" W x 16" H x 11" D

Plenum Opening  
13-1/4" W x 9-1/4" H

Bypass Duct  
7" diameter (collar supplied)

For homes up to 3,000 Sq. Ft.



GFI #5015

## Models 1042LH

### Legacy Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat gives you the ability to control your humidity comfort level.
- A highly efficient flow-through unit that delivers 19.2 GPD.
- Replacement Vapor pad number 990-13 (GFI #7002). Replace once per year.

### Specifications

Unit Size  
15" W x 11-1/2" H x 9" D

Plenum Opening  
10-1/4" W x 9-1/2" H

Bypass Duct  
6" diameter (collar supplied)

For homes up to 2,800 Sq. Ft.



GFI #5144

## Models SL16

### Legacy Series Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat gives you the ability to control your humidity comfort level.
- It fits as small as 8.5" ducts and delivers 19 gallons of water per day.
- Replacement Vapor pad number 990-13 (GFI #7002). Replace once per year.

### Specifications

Unit Size  
12" W x 16-1/2" H x 9-3/4" D

Plenum Opening  
7-1/2" W x 8-1/4" H

Bypass Duct  
6" diameter left or right

For homes up to 2,800 Sq. Ft.



GFI #5000

## Model 81

### Legacy Series Drum Humidifier

- The MHX3 Manual Control Duct-Mount Humidistat gives you the ability to control your humidity comfort level.
- High-capacity model delivers 18 GPD.
- Split drum design allows easy removal of evaporator sleeve part number 81-15 (GFI #7099). Replace once per year.

### Specifications

Unit Size  
12" W x 11-1/2" H x 11" D

Plenum Opening  
8" W x 7-1/2" H

Bypass Duct  
6" diameter (bypass pipe assembly supplied)

For homes up to 2,800 Sq. Ft.









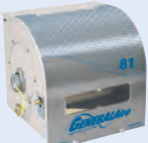



GFI #5048



# Legacy Series Humidifiers

## Model Selection Chart

GeneralAire® Legacy Humidifier Selection Guide											
	Model	Type	Gallons per Day @ 140 Deg.	Square Footage Covered O/S Design Temp: 0°F O/S Design RH: 70% I/S Design Temp: 70°F I/S Design RH: 30% Furnace 8hrs/24hr Period 8ft Ceilings/.30ACH Cold Water Supply	MHX3 Manual-Control Humidistat	Humidity when System Fan Operates	KineticFlo Distribution Trough for Even Water Distribution Across Vapor Pad®	Integrated Bypass Damper	Warranty	Stainless Steel Solenoid Valve Seat	
GeneralAire® Legacy 	SL16 GFI #5000	Flow Through 6" Bypass	19	Up to 2800	Yes	Yes	Yes	No		Yes	
GeneralAire® Legacy 	1042LH GFI #5144	Flow Through 6" Bypass	19	Up to 2800	Yes	Yes	Yes	Yes		Yes	
GeneralAire® Legacy 	1099LHS GFI #5015	Flow Through 7" Bypass	23	Up to 3000	Yes	Yes	Yes	Yes		Yes	
GeneralAire® Legacy 	1137 GFI #5137	Flow Through Fan Power	21	Up to 3000	Yes	Yes	Yes	No		Yes	
GeneralAire® Legacy Drum 	81 GFI #5048	Float Reservoir Drum	18	Up to 2800	Yes	Yes					

	Voltage	Solenoid	Tap Valve	10 ft 24V Thermostat Wire	15 ft 5/8" Drain Hose	10 ft Water Sply Tube	Transformer	Replacement Vapor Pad®	Brand Capacity Cross Reference					
									ELITE	APRILAIRE®	HONEYWELL	SKUTTLE	TRION	SOURCE - 1
	24V	Yes	Yes					990-13 Repl 1/Yr	900	600M	260A 265A 265H	2001	G300	S1-HU17MB
	24V	Yes	Yes		Yes		Yes	990-13 Repl 1/Yr	900	600M	260A 265A 265H	2001	G300	S1-HU17MB
	24V	Yes	Yes		Yes		Yes	1099-20 or GA23 Repl 1/Yr	950					
	120V	Yes	Yes	Yes	Yes		Yes	990-13 Repl 1/Yr	1000	700M	360A 365A 365H	2002	G100	S1-HU18MP
	24V		Yes	Yes		Yes	Yes	81-15 Repl 1/Yr			HE120A	90		

# UV Air Purifiers



## GeneralAire® Series UV Air Purifiers

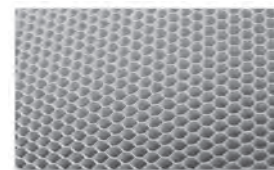
Filtration *alone* is no longer the answer to providing clean and healthy indoor air. Outside, the sun delivers UVC energy that helps rid our air of germs, bacteria, viruses and other destructive bioaerosols. GeneralAire® UV Light Air Purifiers do this for your whole home, *indoors*. So “Let the Sunshine In!” with GeneralAire® UV Air Purifiers.

### PCO2450 VectorFlo®



The Best UV Air Purifier Technology Available! The GeneralAire® PCO2450 (Photocatalytic Oxidation) Air Purifier features:

- A patented VectorFlo® semiconductor - delivers a high-performance kill rate unmatched by other ultraviolet air treatment brands.
- The venturi effect; a technology that significantly decreases the speed of air flowing through the unit, which in turn *increases* the exposure time of harmful airborne microorganisms in a bath of sterilizing germicidal ultraviolet light.
- 24 Sq. Ft. equivalent surface area of honeycomb-shaped aluminum cells that are electrostatically coated and permanently bonded with titanium dioxide (TiO<sub>2</sub>). This specific process is proven to be one of most effective photocatalysts, accelerating the purifying process to kill germs, bacteria, fungus and viruses in your home.



This same germ-killing technology is found in our TERSus Air Cleaner, which also incorporates filtration for *complete* air cleaning! Learn more about TERSus technology on page 23!

## Brand Cross Reference

	DUSTFREE MODEL	SOURCE 1 MODEL	HONEYWELL MODEL	TRIATOMIC MODEL	FIELD CONTROLS MODEL
GUV100A83	Triad Flex-Mount	S1-UV36120	UV100A1059 UV100A2008 UV100E3007	FreshAire UV	UV-12 UV-18 UV-28
GUV25403A		S1-UV50120			
PCO2450		S1-UV50120			
MSP180					
MS24	Lightstick	S1-UV22024	UV100RMI	Blue-Tube UV	UV-16R24V
MS24OZ	Odor Spice			Odor Spice	

## Model PCO2450

### GeneralAire® Series UV Air Purifier

- 50 Watt 18 inch UVC Lamp LT-50 (GFI #4448)
- 135  $\mu\text{W}/\text{cm}^2$ @ 1 meter UVC Lamp Intensity Rating
- High Output Temperature Compensating (HOTC) 120v / 240v Ballast (GFI #4884)
- 24 Sq. Ft., 3,500 Sq. Inch Titanium Dioxide  $\text{TiO}_2$  Anatase Semi-conductor
- 18,000 hours lamp life efficiency

#### Specifications

8-1/2" W x 7-3/8" H x 18" D  
Max 2000 CFM or 4,000 Sq. Ft.



PCO2450  
GFI #4840

## Model MSP180

### GeneralAire® Series UV Air Purifier

- 36watt, 16" UVC Germicidal H-lamp
- 180  $\mu\text{W}/\text{cm}^2$ @1 meter UVC Lamp Intensity Rating
- 24 VAC / 2 AMP Regulating Electronic Ballast
- 18,000 hours lamp life efficiency

#### Specifications

GA3501 Transformer required for installation (GFI #4305)



MSP180  
GFI #4442

## Model GUV100A83

### GeneralAire® Series UV Air Purifier

- 36 watt, 16" UVC Germicidal H-lamp UVV16HC (GFI #4447)
- 180  $\mu\text{W}/\text{cm}^2$ @1 meter UVC Lamp Intensity Rating
- 120 VAC / 240 VAC Regulating Electronic Ballast (GFI #4885)
- 18,000 hours lamp life efficiency

#### Specifications

4" W x 8.75" H x 2.75" D  
Max 2000 CFM or 4500 Sq. Ft.



GUV100A83  
GFI #4142

## Model GUV25403A

### GeneralAire® Series UV Air Purifier

- 36 watt, 16 inch Germicidal H-Lamp UVV16HC (GFI #4447)
- 180  $\mu\text{W}/\text{cm}^2$ @1 meter UVC Lamp Intensity Rating
- 8 watt, 5 inch Super Plasma Lamp UVV5CL (GFI #4870)
- 12  $\mu\text{W}/\text{cm}^2$ @1 meter UVV Lamp Intensity Rating
- 120 VAC / 240VAC Regulating Electronic Ballast (GFI #4881)
- 18,000 hours lamp life efficiency

#### Specifications

4" W x 11.75" H x 2.75" D  
Max 2000 CFM or 4500 Sq. Ft.



GUV25403A  
GFI #4835

## Model MS24

### MicrobeSwatter® UV Air Purifier

- Germicidal Only
- 36 Watt 16 inch UVC H-Lamp

#### Specifications

Max 2000 CFM or 4000 Sq. Ft.  
105  $\mu\text{W}/\text{cm}^2$ @1 meter UVC Lamp Intensity Rating

24 VAC Regulating Electronic Ballast (GFI #4883)

Requires 50VA transformer GA3501 (GFI #4305) \*Not Included

9,000 hours lamp life efficiency

MS24: AGL36 (GFI #4886)

MS24OZ: AGL36OZ (GFI #4487)

## Model MS24OZ

### MicrobeSwatter® SweetShot

- 36 watt 16 inch UVC H-Lamp with 4 inch fused single tube  $\text{O}_3$  broad spectrum quartz SweetShot



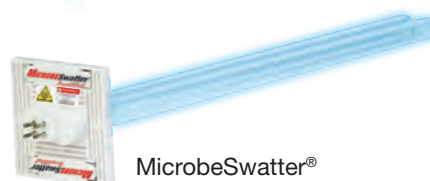
GA3501  
\*Not Included  
GFI #4305



AG2436 24V Ballast








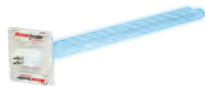
MicrobeSwatter®  
GFI #4440









MicrobeSwatter®  
SweetShot  
GFI #4450

# GeneralAire® UV Air Purifiers

## Model Selection Chart

GeneralAire® Ultraviolet Air Purifier Selection Guide												
	Model	Air Treatment Irradiation	Target Disinfection	Electronic Regulating Ballast	High Output Intensity Rating	Appliance Coupler Disconnect	Lamp Indicator	Lamp Length and Wattage Output	Lamp Intensity Output Measured as mw/cm2 @1 meter	Super Plasma Broad Spectrum Quartz Lamp with Oxy Regulator	Photocatalytic Oxidation Process with 3500 SQ IN 24 SQ ft Anatase TiO2 VectorFlo® Semiconductor	
GUV100A83 	GUV 100A83 GFI #4142	Yes	Yes	Yes	Yes	Yes	Yes	16 inch UVC H-Lamp 36 watts	180			
GUV25403A 	GUV 25403A GFI #4835	Yes	Yes	Yes	Yes	Yes	Yes	16 inch UVC H-Lamp 36 watts 5 inch UVV 8 watts	180 12	Yes		
PCO2450 	PCO 2450 GFI #4840	Yes	Yes	Yes	Yes	Yes	Yes	18 inch UVC 50 watts	135		Yes	
MSP180 	<b>NEW!</b> MSP 180 GFI #4442	Yes	Yes	Yes	Yes	50 VA GA3501 Transformer Required (Not Included)	Yes	16 inch UVC H-Lamp 36 watts	180			
MS24 	MS24 GFI #4440	Yes	Yes	Yes	Yes		Yes	16 inch UVC Lamp 36 watts	105			
MS24OZ 	MS24 OZ GFI #4450							16 inch UVC Fused 36 watt O <sub>3</sub> lamp				



Brand Cross Reference										
		Voltage	QuartzCoat® Extend Lamp Life Coating	Application Range	Warranty	DUSTFREE MODEL	SOURCE 1 MODEL	HONEYWELL MODEL	TRIATOMIC MODEL	FIELD CONTROLS MODEL
		120V or 240V	18,000 hours 2 year Lamp Efficiency	2000 CFM or 4500 Sq. Ft.		Triad Flex- Mount	S1- UV36120	UV100A1059 UV100A2008 UV100E3007	FreshAire UV	UV-12 UV-18 UV-28
		120V or 240V	18,000 hours 2 year Lamp Efficiency	2000 CFM or 4500 Sq. Ft.			S1- UV50120			
		120V or 240V	18,000 hours 2 year Lamp Efficiency	2000 CFM or 4000 Sq. Ft.			S1- UV50120			
		24v	18,000 hours 2 year Lamp Efficiency	2000 CFM or 4000 Sq. Ft.						
		24V	9,000 hours 1 year Lamp Efficiency	2000 CFM or 4000 Sq. Ft.		Lightstick	S1- UV22024	UV100RMI	Blue-Tube UV	UV- 16R24V
						Odor Spice			Odor Spice	

# Heat & Energy Recovery Dehumidification



## Energy/Heat Recovery Ventilators

Every home needs some kind of ventilation system. If too little outdoor air is introduced into your home, pollutants and odors can accumulate to levels that can adversely affect both your comfort and health. Keeping windows and doors open is not always possible, due to weather, safety and noise concerns. Improve indoor air quality by introducing fresh outside air into the home while discharging stale indoor air outdoors.

## Whole House Dehumidifier

Do you live in a humid climate? Are you concerned about mold in your home? Are floors and other surfaces of your home sticky? Does the air seem stuffy? Do you have musty odors in your home? Have you noticed water stains on walls or ceilings? Do you see condensation on your water pipes? Air that's too moist can feel uncomfortable. Left untreated, moist air breeds mold that can become a health hazard. Over-moist air encourages growth of mold, bacteria and dust mites (3 known indoor allergens). Removing excess moisture is essential to your comfort and health. The GeneralAire® Dehumidifier 1300 can remove as much as 130 pints of moisture per day; providing drier, healthier, fresher, more comfortable air.

## Brand Cross Reference

	APRILAIRE®	SOURCE 1	HONEYWELL	VENAMR	BROAN
ERV 3160	NA	S1-ERV160	ER1502006	AVS Duo 1.4	ERV100HC
ERV 3220	8100	S1-ERV220	ER200B2006	AVS Duo 1.9	ERV200HC
HRV 8160	NA	S1-HRV160	HR150B1005	AVS Constucto 1.5 AVS Solo 1.5	HRV100H
HRV 8220	NA	S1-HRV220	HR200B1005	AVS Constucto 2.0 AVS Solo 2.0	HRV200H
	Aprilaire® Model	Source 1 Model	Honeywell Model	Therma-Stor UltraAire Model	HealthyAir Model
1300	1700 1720	S1-DEHU130	DH90	UA-90H UA-135H	DVA150NC DVA400H

## Models 3160 & 3220

### GeneralAire® Energy Recovery Ventilators

- 2 operating modes (Intermittent and Continuous Ventilation)
- Variable speed
- Proportional defrost (Patent Pending)
- ISF™ 6" diameter collar system
- 10-year limited warranty on ventilation motors
- 5-year limited warranty on the energy recovery core
- 5-year limited warranty on all other components

#### Specifications

##### Unit Size

3160: 23-7/8" L x 21-1/2" H x 11-3/8" W

3220: 23-7/8" L x 21-1/2" H x 16-1/2" W

##### Heat Exchanger

3160: 12" L x 12" H x 10" W

3220: 12" L x 12" H x 15" W

##### CFM

3160: 30 to 160

3220: 50 to 220



ERV 3160  
GFI #4670

ERV 3220  
GFI #4675

## Models 8160 & 8220

### GeneralAire® Heat Recovery Ventilators

- 2 operating modes (Intermittent and Continuous Ventilation)
- Variable speed
- Proportional defrost (Patent Pending)
- ISF™ 6" diameter collar system
- 10-year limited warranty\* on ventilation motors
- 5-year limited warranty on the energy recovery core
- 5-year limited warranty on all other components

#### Specifications

##### Unit Size

8160: 23-7/8" L x 21-1/2" H x 11-3/8" W

8220: 23-7/8" L x 21-1/2" H x 16-1/2" W

##### Heat Exchanger

8160: 12" L x 12" H x 10" W

8220: 12" L x 12" H x 15" W

##### CFM

8160: 30 to 160

8220: 50 to 220



HRV 8160  
GFI #4660

HRV 8220  
GFI #4665

## Dehumidifier 1300

### GeneralAire® Whole House

- Optional wall-mounted control
- Cleanable filter
- Frost control
- Minimal maintenance
- Quiet operation
- Energy efficient
- Fits any size home

#### Specifications

##### Dimensions

19.15"H x 25.13"W x 30" L

##### Weight

150 lbs

##### Duct Connections

8" diameter (inlet & outlet)

##### Capacity

130 pints/day



1300  
GFI #5130

# ERV / HRV & Dehumidifier

## Model Selection Chart

GeneralAire® Energy and Heat Recovery Ventilator Selection Guide									
	Model	Heat Transfer	Moisture Transfer	Defrost Control	Net Airflow @ .20 in. wg	Sensible Recovery Efficiency HV I Certified	Variable Speed Balancing Fan Motors (2)	Insulated Cabinet	
 <p>ERV 3160 GFI #4870</p>		Yes	Yes	Yes	163	74%	Yes	Yes	
 <p>ERV 3220 GFI #4675</p>		Yes	Yes	Yes	195	72%	Yes	Yes	
 <p>HRV 8160 GFI #4660</p>		Yes	NA	Yes	163	78%	Yes	Yes	
 <p>HRV 8220 GFI #4665</p>		Yes	NA	Yes	195	74%	Yes	Yes	
GeneralAire® Whole-House Dehumidifier Selection Chart									
	Model	Capacity	Airflow @ .60 in. w.c.	Power Supply	Filter	Weight	Adjustable Integral Dehumidistat	R-4.5 Cabinet Insulation	
 <p>1300 GFI #5130</p>		130 pints	400 CFM	115V-1 9.5 RLA	Washable Nylon Mesh	150lbs	Yes	1 Expanded Polymeric Material	

Brand Cross Reference								
DualTrol®	Warranty	APRILAIRE®	SOURCE 1	HONEYWELL	VENAMR	BROAN		
		Yes		NA	S1-ERV160	ER1502006	AVS Duo 1.4	ERV100HC
		Yes		8100	S1-ERV220	ER200B2006	AVS Duo 1.9	ERV200HC
		Yes		NA	S1-HRV160	HR150B1005	AVS Constucto 1.5 AVS Solo 1.5	HRV100H
		Yes		NA	S1-HRV220	HR200B1005	AVS Constucto 2.0 AVS Solo 2.0	HRV200H
Brand Cross Reference								
Thermostatic Expansion valve	Warranty	Aprilaire® Model	Source 1 Model	Honeywell Model	Therma-Stor UltraAire Model	HealthyAir Model		
		Yes		1700 1720	S1- DEHU130	DH90	UA-90H UA-135H	DVA150NC DVA400H



# Air Filtration



## The Importance of Air Filtration

Environmental Protection Agency studies have found that the air inside your home can be up to 100 times more polluted than outdoor air. As today's home are built more tight and energy efficient, they also trap harmful particulates inside, with you and your family. Installing a *quality* air cleaner is essential to your health and comfort. Consider this:

- Each person inhales over 3,500 gallons of air each day.
- Children inhale more particles for their size than adolescents or adults.
- Polluted air causes 94% of all respiratory problems.
- More than 31 million Americans have been diagnosed with asthma; about 1/3 are children under 18.
- About 40,000 dust mites, a common household allergen, can live in one ounce of dust. Dust mites can cause adverse reactions in people that don't have allergies.
- An estimated 10-15% of the entire population may be allergic to cat or dog dander.
- Exposure to poor indoor air quality can cause short-term eye, nose and throat irritation as well as headaches, dizziness and fatigue. It can also exacerbate the effects of asthma, particularly in children. Over time, this exposure can lead to respiratory disease, cardiovascular disease or even cancer.

**TERSus 2000** 21" H x 25" W x 10" D

**TERSus 1200** 17" H x 25" W x 10" D

### COMPLETE Air Cleaning

**TERSus Removes all three sources of indoor air pollution**

1. High Efficiency MERV 11 Filtration - Removes harmful airborne particulates.
2. ULTRA Violet C Germicidal Air Purification - Kills airborne germs, bacteria, viruses and other harmful organisms.
3. High Performance Photo Catalytic VOC Mitigation Technology - Converts and neutralizes annoying stubborn odors, gases, fumes & toxic chemicals to harmless water and carbon dioxide by-products.

#### TERSUS

##### Service Panel

Tells you when your lamps and filter need replacing!  
*Built into your unit.*



TERSus 2000  
GFI #4560

TERSus 1200  
GFI #4570

## AC500 HEPA Air Cleaner

- Dimension (D x W x H): 13" x 17" x 22"
- Replacement Filters:
  1. Pleated Pre-filter with Charcoal: 1 1/2" x 15 1/2" x 1 3/4"
  2. HEPA Filter: 11 1/2" x 15 1/2" x 2 1/2"
- Performance: 200/300CFM
- Voltage: 120 VAC @ 60 Hz
- Amperage: 1.5A
- Power Consumption : 130W
- Certification: c CSA us
- Efficiency: 99.97 @ .30 microns



HEPA  
AC500  
GFI #4600

## GA52F32 Grille Mount Electronic Air Cleaner



GA52F32  
GFI #4765

## GA50 Series

### Electronic Air Cleaners

- Up to 99.7% efficient at 0.30 microns
- Carbon filters that remove gaseous odors
- Dual indicator lights show unit operation at a glance
- Electronic Air Proving Switch cycles air cleaner On/Off with system fan

#### Maintenance

Clean collecting cell every 3 months with:

#### EAC Cell Detergent

GFI #4746

#32 oz.

Non-Caustic / Non Acid  
The assurance for high performance efficiency output!



GA50A14  
GFI #4710

GA50A22  
GFI #4720

GA50A20  
GFI #4700

## AC Series

### AC22 and AC24

- MERV 11 Micro Fiber
- No-tear design
- Strong expandable media
- 75% dust spot efficiency  
1.0 to 3.0 microns



#### Replacement Media

AC22: 12758

AC24: 401-13156

G-99 Air Filter Gage  
Conveniently Pre-Built Into the Door

GeneralAire® offers an easy-to-use, easy-to-read air filter gage that provides a visual indication of the need to replace your air filter. As the air filter media loads with airborne particulates, the gage indicator arm will rise, telling you it's time to change your filter.



AC24  
GFI #4424

AC22  
GFI #4422

## MAC Series

### 2000, 2020, 1400, 1200M

- MERV 10 Opti-Fiber Media (MAC1200M MERV 8)
- Opti-Fiber Media with low pressure drop characteristics.
- 61.8% minimum average efficiency  
1.0 to 3.0 microns

#### Replacement Media

MAC 2000: 5FM2025

MAC 2020: 5FM2020

MAC 1400: 5FM1625

MAC 1200M: 3FM1625



MAC2020  
GFI #4530

MAC2000  
GFI #4500

MAC1400  
GFI #4510

MAC1200M  
GFI #4520

## MAC-L

### Right Angle Air Cleaner

- MERV 10 Opti-Fiber Media
- Opti-Fiber Media with low pressure drop characteristics.
- 61.8% minimum average efficiency  
1.0 to 3.0 microns

#### Replacement Media




MAC-L: 5FM2025











MAC-L  
GFI #4540

# Air Cleaners

## Model Selection Chart

	Model	Type	Unit H x W x D Size (in inches)	Application	Rated Airflow CFM	MERV Rating	Arrestance Efficiency at 492 FPM	Dust Spot Efficiency at 492 FPM	
<b>TERSus 1200 / 2000</b> 	1200 GFI #4570		17" x 25" x 10"	1.5-3 Ton Drive Air Handler / Furnace	1200	11	NA	93 % 1.0 to 3.0 microns	
	2000 GFI #4560		21" X 25" x 10"	3.5-5 Ton Drive Air Handler / Furnace	2000				
<b>AC500</b> 	AC500 GFI #4600	HEPA 120V	22" x 17" x 13"	Bypass Duct Mount or Remote Mount	300	99.97% at .30 microns	NA	NA	
<b>GA50A20, GA50A14 GA50A22</b> 	GA50A20 GFI #4700	Electronic Air Cleaner	20" x 25" x 7.5"		2000	up to 99% at .30 microns	NA	99% at 600 CFM	
	GA50A14 GFI #4710		16" x 25" x 7.5"		1400				
	GA50A22 GFI #4720		20" x 20" x 7.5"		1400				
<b>GA52F32</b> 	GA52F32 GFI #4765	Grille Mount	24" x 32" x 7"		2000	up to 96% at .30 microns	NA	96% at 600 CFM	
<b>AC22 / AC24</b> 	AC22 GFI #4422	Expandable Media	20" x 25" x 10"	Inline	2000	11	97% 1.0 to 3.0 microns	75% 1.0 to 3.0 microns	
	AC24 GFI #4424		16" x 28" x 10"						
<b>MAC1400 MAC2020 MAC2000</b> 	MAC1400 GFI #4510	Cartridge Media	16" x 25" x 7"	Inline	1400	10	75% 1.0 to 3.0 microns	61.8% 1.0 to 3.0 microns	
	MAC2020 GFI #4530		20" x 20" x 7"	Inline	1400				
	MAC2000 GFI #4500		20" x 25" x 7"	Inline	2000				
<b>MAC-L</b> 	MAC-L GFI #4540	Right Angle Air Cleaner	23-7/16" H 25-5/8" D 15-5/16" W	Inline Adj. Drop Dim. 24 x 8 24 x 10	2000	10	75% 1.0 to 3.0 microns	61.8% 1.0 to 3.0 microns	
<b>MAC1200M</b> 	MAC1200M GFI #4520	Cartridge Media	16" x 25" x 5"	Inline	1200	8	75% 1.0 to 3.0 microns	53.4% 1.0 to 3.0 microns	

	Initial Pressure Drop	Maintenance Cycle	Filter Media Dimensions Nominal (Actual) (H x W x D)	G99 Airflow Indicator Gage	Warranty	APRILAIRE® MODEL	SOURCE 1 MODEL	HONEYWELL MODEL	TRION AIR BEAR MODEL
	.30 in. w.c.	U.V. Lamps - 1 year (2 Required) Filter - 6 Months	16 x 25 x 4	Service indicator for lamp repl. & filter repl.		NA		NA	NA
	.38 in. w.c.		20 x 25 x 4						
	NA	30% Pleated Pre-filters with Charcoal Every Six Months	11 1/2" x 15 1/2" x 1 3/4" (2) Pleated Pre-filters With Charcoal <i>ARK564 Annual Kit</i>	NA Optional		NA	S1-HEPA300	F500A1000	NA
		HEPA Every Two Years	11 1/2" x 15 1/2" x 2 1/2" <i>RHF562 HEPA Filter</i>						
	.157 w/o carbon	Clean Collecting Cell Every 3 Months With DAX	NA	NA			S1-EAC20002025	F300A2025	
	.157 w/o carbon						S1-EAC14001625	F300A1625	
	.157 w/o carbon						S1-EAC14002020	F300A2020	
	.294	Clean Collecting Cell 3 Months With DAX	NA	NA			S1-EAC2000GM		TGM 2000
	.18 in. w.c.	Every 12 Months	20" x 25" x 6" 12758	Integral		2200	S1-MAC11202506	NA	NA
	.22 in. w.c.		16" x 27" x 6" 401-13156			2400	S1-MAC11162506		
	.23 in. w.c.	Every 6 Months	16 x 25 x 5 (16" x 24-1/4" x 4-15/16") 5FM1625	Optional		2120	S1-MAC10162505	F100F1012 F100F2002	Air Bear 455602-119
			20 x 20 x 5 (20" x 20-1/4" x 4-15/16") 5FM2020				S1-MAC10202005	F100F1020 F100F2036	Air Bear 455604-019
			20 x 25 x 5 (20" x 24-1/4" x 4-15/16") 5FM2025			2140	S1-MAC10202505	F100F1038 F100F2010	Air Bear 455602-019 459200-005
	.26 in. w.c.	Every 6 Months	20 x 25 x 5 (20" x 24-1/4" x 4-15/16") 5FM2025	Optional					Air Bear 447380-002 459202-001
	.23 in. w.c.	Every 6 Months	16 x 25 x 3 (16" x 24-1/4" x 2-15/16") 3FM1625	Optional					Air Bear Cub 425599-008



# Replacement Filters



## Replacement Filter Media

**4050** 201-12880 MERV 11 Expandable Strung Media for Aprilaire® 2200. Standard Package: 9

**4051** 401-13156 MERV 11 Expandable Media for 2400, AC24. Standard Package: 9



## Replacement Filter Media

**4001** 12758 Micro Fiber MERV 11 Expandable Media for AC1, AC22. Standard Package: 9

**4401** 13415 Micro Fiber MERV 11 Expandable Media for AC4. Standard Package: 6



## FlatPac

### Replacement Filter Media

**4526** FP2025X5 20 x 25 MERV 8 Media. Replaces GeneralAire® part #5FM2025. Replaces Trion part #255649-102. (Actual Dimension 20-1/8" x 25-3/16" x 4-15/16")

**4527** FP1625X5 16 x 25 MERV 8 Media. Replaces GeneralAire® part #5FM1625. Replaces Trion part #255649-105. (Actual Dimension 16-1/8" x 25-3/16" x 4-15/16")

**4528** FP2020X5 20 x 20 MERV 8 Media. Replaces GeneralAire® part #5FM2020. Replaces Trion part #255649-103. (Actual Dimension 20-1/8" x 20-5/8" x 4-15/16")



Standard Package: 12

**4361** FP1620HW 16 x 20 MERV 8 Media. Replaces Honeywell part #FC100A1003. (Actual Dimension 15-13/16" x 19-5/8" x 4-3/8")

**4362** FP1625HW 16 x 25 MERV 8 Media. Replaces Honeywell part #FC100A1029. (Actual Dimension 15-13/16" x 24-13/16" x 4-3/8")

**4363** FP2020HW 20 x 20 MERV 8 Media. Replaces Honeywell part #FC100A1011. (Actual Dimension 19-13/16" x 19-5/8" x 4-3/8")

**4364** FP2025HW 20 x 25 MERV 8 Media. Replaces Honeywell part #FC100A1037. (Actual Dimension 19-13/16" x 24-13/16" x 4-3/8")

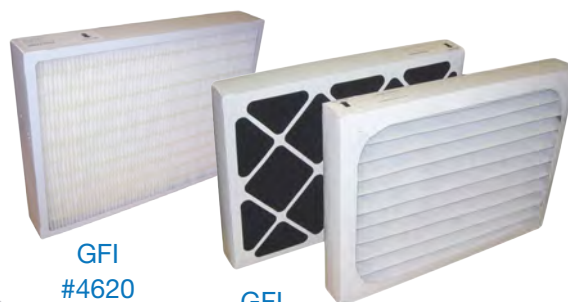
## HEPA Replacement Components

**4650** CMK500 Collar Mount Adaptor Kit for AC500

**4620** RHF562 Replacement HEPA Filter for AC500

**4610** ARK564 Annual Filter Replacement Kit (2) 30% Pleated Pre-filters With Charcoal

GFI  
#4650



GFI  
#4620

GFI  
#4610



## GeneralAire® MAC Series Replacement Filter Media

- 4501** 5FM2025 MERV10 20 x 25 x 5 Media for MAC2000 and MAC-L. Also fits TRION AirBear Supreme 2000, replaces TRION media part #255649-102. (Actual Dimension 20" x 24-1/4" x 4-15/16")
- 4511** 5FM1625 MERV 10 16 x 25 x 5 Media for MAC1400. Also fits TRION AirBear Supreme 1400, replaces TRION media part #255649-105. (Actual Dimension 16" x 24-1/4" x 4-15/16")
- 4531** 5FM2020 MERV 10 20 x 20 x 5 Media for MAC2020. Also fits TRION AirBear Supreme 20 x 20, replaces TRION media part #255649-103. (Actual Dimension 20" x 20-1/4" x 4-15/16")



Standard Package: 6

## Honeywell Series Replacement Filter Media

- 4350** GA100A03 16 x 20 MERV 10 Media. Replaces Honeywell part #FC100A1003. (Actual Dimension 15-13/16" x 19-5/8" x 4-3/8")
- 4352** GA100A29 16 x 25 MERV 10 Media. Replaces Honeywell part #FC100A1029. (Actual Dimension 15-13/16" x 24-13/16" x 4-3/8")
- 4354** GA100A11 20 x 20 MERV 10 Media. Replaces Honeywell part #FC100A1011. (Actual Dimension 19-13/16" x 19-5/8" x 4-3/8")
- 4356** GA100A37 20 x 25 MERV 10 Media. Replaces Honeywell part #FC100A1037. (Actual Dimension 19-13/16" x 24-13/16" x 4-3/8")



Standard Package: 5

## GeneralAire® AC MERV 8 Media Option

- 4122** GA102 20 x 25-1/8 x 3-3/4 MERV 8 Cartridge Media for AC22. Also fits Aprilaire® model 2120.
- 4123** GA104 15-5/8 x 27-5/8 x 3-3/4 MERV 8 Cartridge Media for AC24. Also fits Aprilaire® model 2140.



Standard Package: 6

## MAC1200M Replacement Filter Media

- 4521** 3FM1625 MERV 8 16 x 25 x 3 Media for MAC1200M. (Actual Dimension 16" x 24-1/4" x 2-15/16") Also fits TRION AirBear Cub. Replaces TRION media part #255649-101.



Standard Package: 6

# Accessories



## Automatic Digital Humidistat

- 7050** GFX3 Automatic Digital Temperature Compensating Humidistat
- Wall or Duct mount
  - 24V
  - 10% to 75% Relative humidity control range.

- Can be used in manual or automatic mode.
- Use in automatic mode by simply installing the outdoor temperature sensor.
- Informative backlit display.
- Contemporary design.
- Extremely accurate.



## Manual Control Duct Mount Humidistat

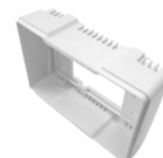
- 7037** MHX3 Manual Control Duct Mount Humidistat
- Manual mode operation  
Contemporary design for living space mounting.  
Can be mounted on wall with WMH3; wall mount housing (GFI #7053)



DMP3 Duct Mount Plate  
Pre-Installed on Unit

## Manual Control Wall Mount Humidistat

- 7038** MHX3C Manual Control Wall Mount Humidistat
- Manual mode operation  
Can be mounted on duct with DMP3; duct mount plate (GFI #7154)  
Contemporary design for living space mounting



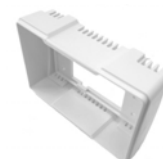
WHM3 Wall Mount Housing  
Pre-Installed on Unit

## Manual Control Duct or Wall Mount De-Humidistat

- 7175** DHX3C Manual Control Wall or Duct Mount De-Humidistat
- Manual mode operation  
Contemporary Design for Living Space Mounting  
Included in Box:

7154 - Optional DMP3 Duct Mount Plate

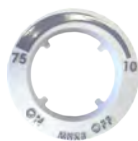
7058 - Optional CRD3 Comfort Dial (To use as a humidistat)



WHM3 Wall Mount Housing  
Pre-Installed on Unit



Included Optional DMP3  
Duct Mount Plate



Included  
Optional  
Dial CRD3

## Indoor Humidity/Temperature Gage

- 7024** G98 Indoor Humidity/Temp. Gage
- Digital Humidity Display  
Digital Temperature Display  
Wall Mount or Table Top Positioning



## Humidifier Evaporator Pads

- 7002** 990-13 Replacement pad for GeneralAire® Legacy Humidifier models 709, 990, 1040, 1042, 1137 and SL16  
Also fits GeneralAire® Elite model 900 and 1000
- 7047** 1099-20 Replacement pad for GeneralAire® Legacy Humidifier model 1099  
Also fits GeneralAire® Elite model 950



**New & Improved  
Pad Coating!**

## Humidifier Vapor Pad®

- 7919** GA19-Replacement pad for Elite Humidifier 900 & 1000
- 7923** GA23-Replacement pad for Elite Humidifier 950



## Humidifier Vapor Pad®

- 7900** GA10 for GeneralAire® model 570  
Fits AprilAire® models 110, 220, 558, 550 and 500  
Fits Honeywell models HE220 & HE225
- 7901** GA12 fits AprilAire® models 224, 112, 440, 445A & 445
- 7902** GA35 fits AprilAire® models 350, 360, 568, 560, 600, 768, 760 & 700



## Code Valve

- 7016** GCV3412 is a 1/2" and 3/4" all in one universal sweat connection 1/4 turn water supply ball valve. A 1/4" compression fitting accepts 1/4" copper tubing to supply water to the humidifier. Valuable where plumbing codes require this feature. Standard with all GeneralAire® Elite Automatic Humidifier Models.



## Solenoid Valve

- 7221** GA4040 24V with stainless steel seat  
For GeneralAire® Elite flow-through humidifiers  
Fits AprilAire® model humidifiers  
Fits Honeywell model humidifiers



## 24V Current Sensing Relay

- 7026** GA50 24 volt Current Sensing Relay, makes blower control isolation easy, great for humidifiers.
- 7027** GA51 120 volt Current Sensing Relay, makes blower control isolation easy, great for electronic air cleaners and small load rated fans.





# Accessories



## Orifices: Yellow, Orange, Blue, White & Red

**7580** GA4231 Yellow Orifice for 570, 900, 1000, 550, 500, 600

**7581** GA4299 Orange Orifice for 950

**7587** GA4232 Blue Orifice for 350, 360

**7589** GA4007 White Orifice for 110, 220

**7590** GA4021 Red Orifice for 112, 224

*12 unit order increments only*



## DAX Cell Detergent

**4746** 9900 DAX EAC Cell Detergent is Non Caustic Non Acid. Clean every 3 months.



## Strainer

**7564** GA4004 for models 570, 900, 1000, 1099LHS  
*Also fits Aprilaire and Honeywell models*



## Fan Blade

**7582** GA4247 for models 1000, 760, 700 & HE365



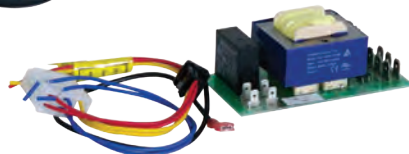
## Motor

**7584** GA4237 for models 1000, 760, 700 & HE365



## Relay Circuit Board

**7586** GA4238 for models 1000, 1137, 700 & HE365



## EZTestr11

**NEW!**

**7066** AP-2 Conductivity Meter  
*Measures your water's conductivity*



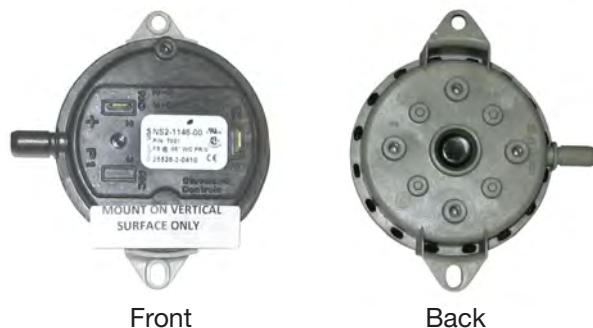
## Digital Thermohygrometer

**7065** 610 Digital Thermohygrometer  
*Measures temperature and humidity*



## Air Pressure Proving Switch

**7021** 12500 Air Pressure Proving Switch  
Range: 0.5" W.C.



Front

Back

## Solenoid Valves

**7014** 990-53 Solenoid Valve 24V for model 1042, 1137  
**7052** 1099-42 Solenoid Valve 24V for model 1099L/LH/R  
**7341** 1137-17 Solenoid Valve 115V for model 1137



## 50 VA Transformer

**4305** GA3501  
120 / 208 / 230 Primary to 24V Secondary  
Multi-Mount: Foot Mount, Plate Mount, Spud Mount  
Recommended for MicrobeSwatter® 24v UV Air Purifier



## Air Filter Gage

**4002** G99 Air Filter Gage:

It can be easy to forget about your air filter. GeneralAire® offers an easy-to use, easy-to-read filter gage. The air filter media will load with airborne particulates, raising the gage indicator arm to the black zone and letting you know it's time to change your filter.



Black =  
Dirty Filter!

Gage  
Indicator  
Arm

Blue = Clean Filter!

## Fan Motor and Fan Blade Assembly

**7337** 1137-8 Fan Motor for 1137  
**7350** 1137-50 Fan Blade Assembly for 1137



# ***The Importance of Controlling Indoor Air Quality***

## ***Why Control Indoor Air?***

Since the air indoors can be many times more polluted than outdoor air, it can have an adverse affect on you and your family's health. Studies show we spend an estimated 90% of our time indoors, so evaluating and controlling the quality of your indoor air is essential to your health and comfort.

- Each person inhales over 3,500 gallons of air each day.
- Children inhale more particles for their size than adolescents or adults.
- Polluted air causes 94% of all respiratory problems.
- More than 31 million Americans have been diagnosed with asthma, about 1/3 are children under 18.
- About 40,000 dust mites, a common household allergen, can live in one ounce of dust. Even people without allergies can have strong reactions to dust mites.
- An estimated 10-15% of the entire population may be allergic to cat or dog dander.
- A person sheds up to 700,000 skin flakes per day.
- Exposure to poor indoor air quality can cause short-term eye, nose and throat irritation as well as headaches, dizziness and fatigue. It can also exacerbate the effects of asthma, particularly in children. Over time, this exposure can lead to respiratory disease, cardiovascular disease or even cancer.

## ***What Are The Signs Of Poor Indoor Air Quality?***

You may experience one or more of the following in your home:

- |                            |                          |                         |                      |
|----------------------------|--------------------------|-------------------------|----------------------|
| • Watery, itchy eyes       | • Wheezing               | • Frequent rashes       | • Asthma             |
| • Recurring bronchitis     | • Runny nose, congestion | • Headaches             | • Coughing           |
| • Shortness of Breath      | • Dermatitis             | • Dizziness             | • Fatigue            |
| • Sinusitis                | • Nose Bleeds            | • Loss of Concentration | • Static Electricity |
| • Dry, itchy, cracked skin | • Body Aches             | • Sore Throat           | • Static Shocks      |

You may also experience:

- |   |  |
|---|--|
| • Stale, stuffy air                                       | • Lingering cooking and other odors          |
| • Excessive moisture, humidity in the air and on surfaces | • Dark edges along carpets and walls         |
| • Fast buildup of dust on tables and other surfaces       | • Cracks in woodwork, drywall; flaking paint |

Ask yourself: Do I feel better after I leave my home? Do I feel worse again when I come home after being gone for awhile? If you or a family member experiences one or more of these symptoms you could benefit from installing whole house indoor air quality products.

## ***What Are The Causes Of Poor Indoor Air Quality?***

- |   |                              |
|---|------------------------------|
| • Animal products, such as hair, dander (skin flakes), dried saliva and urine           | • Smoking                    |
| • Lack of (or too much humidity)  | • Dust mites                 |
| • Heating and air conditioning unit buildup of dust, moisture, mold, etc.               | • Water damage               |
| • Fertilizer or pesticides, often brought into the home from the outdoors on shoes      | • Bacteria and viruses       |
| • Recent construction dust from wood, drywall, dirt, etc.                               | • Insects & their body parts |
| • Chemicals in cleaning products, new furniture, carpeting and products used in hobbies |                              |

## ***Components of Indoor Air Quality Control:***

Air quality is not about filtration alone. Each below can positively impact indoor health and comfort:

- |                                       |               |                              |                |
|---------------------------------------|---------------|------------------------------|----------------|
| 1. Humidification / De-humidification | 2. Filtration | 3. UV Light Air Purification | 4. Ventilation |
|---------------------------------------|---------------|------------------------------|----------------|





## What the Experts Say:

Many world health and safety organizations offer valuable information about indoor air quality and your health. We've included just a sampling below. *Visit their websites to learn more.*

**According to the American Lung Association (ALA),** *"You may not know it, but the air in your home can be dirty and hazardous to your health. In fact, indoor air can be even more polluted than the air outdoors. The air in your home can threaten your family's health, especially if someone in your family has asthma or another lung disease."*

**The US Environmental Protection Agency (EPA) has stated that** *"Immediate effects (of Indoor Air Pollution) may show up after a single exposure or repeated exposures. These include irritation of the eyes, nose, and throat, headaches, dizziness, and fatigue. Other health effects may show up either years after exposure has occurred or only after long or repeated periods of exposure. These effects, which include some respiratory diseases, heart disease, and cancer, can be severely debilitating or fatal. It is prudent to try to improve the indoor air quality in your home, even if symptoms are not noticeable."*

### Occupational Safety & Health Administration (OSHA) says:

*"Poor indoor air quality (IAQ) has been tied to symptoms like headaches, fatigue, trouble concentrating, and irritation of the eyes, nose, throat and lungs. Also, some specific diseases have been linked to specific air contaminants or indoor environments, like asthma with damp indoor environments."*

### Asthma & Allergy Foundation of America (AAFA):

- Allergies are the most frequently reported chronic condition in children, limiting activities for more than 40% of them.
- Allergies are the 5th leading chronic disease in the U.S. among all ages.
- Approximately 50 million Americans suffer from allergies.
- Reducing humidity decreases dust mite and mold growth.

### American Heart Association (AHA):

*"...short-term exposure to airborne particles increases acute cardiovascular mortality as well as hospital admissions, and that long-term exposure reduces life expectancy."*

***Breathe Healthier***

# Humidification 101

## What Are The Effects of Dry Air?

- Dry, itchy, cracked skin
- Increased bouts of flu, colds, and other respiratory ailments
- Clogged or swollen air passages
- Annoying static shocks that can damage electronics
- Cracked woodwork in flooring, furniture, cabinets, musical instruments and artwork
- Increased allergy and asthma symptoms
- Increased risk of infection
- Sleeping difficulties; lack of mental concentration
- Dry sinuses, throat and nose

Humidifiers help you control the moisture levels in your home so that you and your family not only feel more comfortable, but your home is also protected.

## How Much Humidity Is Right?

Research has shown that 40% to 60% relative humidity is ideal for today's homes. Outside this range, bacteria, fungi, viruses and mites thrive. Proper relative humidity provides a comfortable environment for your woodwork, your furniture, your plants, your pets and especially you and your family.

## Selecting a Flow Through or Drum Humidifier

Selecting a humidifier begins with calculating the amount of moisture a humidifier will need to generate in your home to reach desired humidity levels. This is known as humidity load, or gallons per day (GPD). Using the calculation below, determine the humidity load your home will need.

### Humidity Calculation

#### Calculate the Total Cubic Feet of Home

- Total Home Square Footage X Average Ceiling Height  
(Include the basement)

#### Calculate the Load (lbs/hr)

- Total Cubic Feet X Desired Condition Factor (Table to Right)
- X 1.05 For Each Fireplace

#### Calculate Gallons Per Day (GPD)

- Gallons Per Day = Load (lbs/hr) X 2.88

Go to [www.generalfilters.com/Support Center](http://www.generalfilters.com/Support Center) to use our handy Humidification Calculator!

#### Desired Condition Factor Table

Indoor Air Temp °F	Indoor RH%			
	35%	40%	45%	50%
68	0.00015	0.00018	0.00021	0.00024
70	0.00017	0.00020	0.00023	0.00026
72	0.00019	0.00022	0.00025	0.00028

\*Based on .5 air changes per hour

Now that you know the gallons per day your new humidifier will need to generate, select a unit that is designed to accommodate that requirement from the below models.

## Flow Through and Drum Model Selection

GeneralAire® Elite & Legacy Models	Humidistat Included	Designed for Home Sizes To:	GPD	Dimensions		
				W	H	D
Elite 570 (A & M) Flow Through	GFX3-A / MHX3-M	2,000 Sq. Ft.	12	11 7/8"	13 3/8"	9 1/2"
Elite 900 (A & M) Flow Through	GFX3-A / MHX3-M	2,800 Sq. Ft.	17	12 1/2"	16 1/2"	10"
Elite 1000 (A & M) Fan Powered	GFX3-A / MHX3-M	3,000 Sq. Ft.	18	16"	16 1/2"	10"
Legacy 1042 Flow Through	MHX3	2,800 Sq. Ft.	19	15"	11 1/2"	9"
Legacy 1099LHS Flow Through	MHX3	3,000 Sq. Ft.	23	16"	16"	11"
Legacy 1137 Fan Powered	MHX3	3,000 Sq. Ft.	21	16"	14"	10"
Legacy SL16 Flow Through	MHX3	2,800 Sq. Ft.	19	12"	16 1/2"	9 3/4"
Legacy 81 Drum	MHX3	2,800 Sq. Ft.	18	12"	11 1/2"	11"



## Selecting a *Steam* Humidifier - 4 Easy Steps!

1. Determine the Sq. Ft. of your home (*include the basement*).
2. Determine the Gallons Per Day your home will need to achieve desired humidity levels. (Use the same humidity calculation on page 35 to determine Gallons Per Day.)
3. Use our AP-2 water conductivity meter to test the water for electrical conductivity (measured in microSiemens per centimeter (µs/cm).
  - \* 200 to 500 µs/cm requires a low conductivity (LC) model.
  - \* 500 to 1,250 µs/cm requires a regular steam model.
4. Select the Room Steam (RS) or Duct Steam (DS) model that provides the Gallons Per Day (GPD), and either a regular or Low Conductivity (LC) model based on your water conductivity results. If selecting a DS Model, choose an installation kit (required for DS models). See kit options on page 5.

**NEW!**



AP-2  
Conductivity  
Meter

See page 31

## Steam Humidifier Model Selection

GeneralAire® Steam Model	Power Supply (single phase)	Steam Output (lbs/hr)	GPD	Dimensions		
				W	H	D
DS15P (Duct Steam Model)	120Vac 50/60Hz	5.5	15.8	13 1/8	23 3/4	8 1/4
RS15P (Room Steam Model)	120Vac 50/60Hz	5.5	15.8	13 1/8	23 3/4	8 1/4
DS (25 / 25LC) (Duct Steam Model)	230Vac 50/60Hz	9-12	25-35	13 1/8	23 3/4	8 1/4
RS (25 / 25LC) (Room Steam Model)	230Vac 50/60Hz	9-12	25-35	13 1/8	23 3/4	8 1/4
DS (50 / 50LC) (Duct Steam Model)	230Vac 50/60Hz	20	50-58	17.5	31 1/2	11 1/2

LC = Low Conductivity

*The following water types are not acceptable: If water conditions are outside the parameters shown above or those shown in the Installation Manual, do not install the unit. Contact the factory for technical support.*

- Water containing disinfectants or corrosion inhibitors
- Industrial water, boiler water or water from cooling circuits
- Potential chemically or bacteriologically contaminated water
- Softened water
- Heated water
- Water with silica deposits

## The Life of a Cylinder

Humidity Load (known as Gallons Per Day - GPD) has a direct impact on the life of your cylinder. When properly sized to match the square footage of a home, a humidifier will rarely be required to run at full capacity. As a result, water levels inside the cylinder remain lower and buildup of minerals on the entire length of the electrodes takes longer. Thus, the life of your cylinder is greatly enhanced.

As water evaporates inside the cylinder, minerals are left behind. Much of these minerals are removed through the cylinder drain; however, some remain and build up on cylinder walls and electrodes. As portions of the electrodes accumulate a thick coating, the water level automatically rises to expose clean electrode surface (for maximum electric conductivity). Eventually mineral buildup creates a thick coating along the entire length of the electrodes, which reduces the electrical current that can pass between them and result in poor steam output.

In high end construction and renovation projects humidification is often required while the structure is being finished, as it helps to protect and stabilize wood floors, trim and decoration. Humidification load in an unfinished structure may be five to eight times higher than a finished one. With such projects, you may expect a shortened cylinder life.



***Speak with a licensed contractor for assistance with your steam humidifier selection, installation and maintenance.***

# Air Cleaner Data



## Minimum Efficiency Reporting Value (MERV)

An "overall" reporting value of a 52.2-evaluated air filter is the expression of the Minimum Efficiency Reporting Value (MERV). The MERV is a single number that is used, along with the air velocity at which the test was performed; to simplify the extensive data generated by the method of testing. MERV is expressed on a 16 point scale and is derived from the Particle Size Efficiency (PSE) for each of the three groups. (See Table 2: MERV Parameters.) The average PSE for each of the three groups (E1, E2, and E3) is referenced against the Minimum Efficiency Reporting Value Parameters.

## Standard Test Airflow Rates

The Minimum Efficiency Reporting Value (MERV) must be stated with the air velocity at which the filter was tested. For example, if the filter was tested with an air velocity of 492 FPM and was found to be MERV 10, the filter's Minimum Efficiency Reporting Value would be MERV 10 @ 492 FPM. ASHRAE Standard 52.2 tests are to be conducted at one of seven airflow rates:

118 FPM (0.60 m/s)  
246 FPM (1.25 m/s)  
295 FPM (1.50 m/s)  
374 FPM (1.90 m/s)  
492 FPM (2.50 m/s)  
630 FPM (3.20 m/s)  
748 FPM (3.80 m/s)

## Minimum Final Resistance

Final resistance must be at least twice the initial resistance at the test airflow rate, or the values in Table 2, whichever is greater.

## Average Arrestance By Standard 52.1

Filters with an efficiency of less than 20% in E3 (MERV 1 through MERV 4) must be tested per the arrestance test of ASHRAE Standard 52.1

**TABLE 1: ASHRAE 52.2 PARTICLE SIZE RANGES**

Range	Size	Group
1	0.30 to 0.40	E1
2	0.40 to 0.55	
3	0.55 to 0.70	
4	0.70 to 1.00	
5	1.00 to 1.30	E2
6	1.30 to 1.60	
7	1.60 to 2.20	
8	2.20 to 3.00	
9	3.00 to 4.00	E3
10	4.00 to 5.50	
11	5.50 to 7.00	
12	7.00 to 10.00	

**TABLE 3: MERV PARAMETERS**

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, $\mu$ m			Average ASHRAE Arrestance, % by Standard 52.1 Method	Minimum Final Resistance	
	Range 1 (0.3-1.0)	Range 2 (1.0-3.0)	Range 3 (3.0-10.0)		PA	Inches of Water
1	n/a	n/a	E3 < 20	Aavg < 65	75	.3
2	n/a	n/a	E3 < 20	65 < Aavg < 70	75	.3
3	n/a	n/a	E3 < 20	70 < Aavg < 75	75	.3
4	n/a	n/a	E3 < 20	75 < Aavg	75	.3
5	n/a	n/a	20 $\leq$ E3 < 35	n/a	150	.6
6	n/a	n/a	35 $\leq$ E3 < 50	n/a	150	.6
7	n/a	n/a	50 $\leq$ E3 < 70	n/a	150	.6
8	n/a	n/a	70 $\leq$ E3	n/a	150	.6
9	n/a	E2 < 50	85 $\leq$ E3	n/a	250	1.0
10	n/a	50 $\leq$ E2 < 65	85 $\leq$ E3	n/a	250	1.0
11	n/a	65 $\leq$ E2 < 80	85 $\leq$ E3	n/a	250	1.0
12	n/a	80 $\leq$ E2	90 $\leq$ E3	n/a	250	1.0
13	E1 $\leq$ 75	90 $\leq$ E2	90 $\leq$ E3	n/a	350	1.4
14	75 $\leq$ E1 < 85	90 $\leq$ E2	90 $\leq$ E3	n/a	350	1.4
15	85 $\leq$ E1 < 95	90 $\leq$ E2	90 $\leq$ E3	n/a	350	1.4
16	95 $\leq$ E1	95 $\leq$ E2	95 $\leq$ E3	n/a	350	1.4

### UV Potency Required for Microbe Disinfection (measured as microWatt seconds per centimeter squared $\mu\text{W-sec}/\text{cm}^2$ )

Bacteria	UV Dose
Bacillus Paratyphosus	6,100
Legionella Bozemanii	3,500
Legionella Micdadei	3,100
Mycobacterium Tuberculosis	10,000
Salmonella Enteritidis	7,600
Salmonella Typhi (Typhoid Fever)	7,000
Streptococcus Hemolyticus	5,500
Virus	UV Dose
Influenza	6,600
Infectious Hepatitis	8,000
Adeno Virus Type 3	4,500
Rotavirus	24,000
Mold	UV Dose
Aspergillus Amstelodami	77,000
Mucor Mucedo	77,000
Penicillium Chrysogenum	56,000
Yeast	UV Dose
Baker's Yeast	8,000
Brewer's Yeast	13,200

This chart is intended to illustrate the potential effectiveness of ultraviolet wavelength exposure to various bacteria microbes and is based on credible university and independent laboratory studies. General Filters, Inc. does not make any claims to accuracy of information.

**Calculating UV Wavelength Potency:** Ultraviolet wavelength potency is measured at one meter from the lamp; an accepted standard measurement by lamp manufacturers. Calculate ultraviolet radiation potency at measured distances by multiplying the potency of the lamp ( $\mu\text{W}/\text{cm}^2$  @ 1 meter) by the potency factor. **Example:** Multiply the GUV100A83 potency output of ( $180 \mu\text{W}/\text{cm}^2$  @ 1 meter) by the distance of 2 inches (69 Potency Factor) =  $12,420 \mu\text{W-sec}/\text{cm}^2$ .

Distance from Lamp	Potency Factor	Distance from Lamp	Potency Factor
0	354	12	12
1	127	15	6
2	69	20	4
4	32	25	3
6	20	30	2
8	14	35	1.4
10	13	39.97	1

GeneralAire® Model	Lamp Length	Voltage	Lamp Output in Watts	HOTC Electronic Regulating Ballast	Max SQ FT Range	Lamp Potency $\mu\text{W}/\text{cm}^2$ @ 1 meter	Ballast Warranty
GUV100A83	16 "	120/230	36	Yes	4500	180	5 year
GUV25403A	16"/5"	120/230	36/8	Yes	4500	180/12	5 year
PCO2450	18"	120	50	Yes	4000	135	5 year
MS24/MS24OZ	16"	24	36	Yes	4000	105	5 year
MSP180	16"	24	36	Yes	4000	180	5 Year

\*MS24, MS24OZ and MSP180 all require 50VA Transformer (GA3501 - [GFI #4305](#))

# Manufacturers of Residential Whole House Indoor Air Quality Products

Humidifiers - Dehumidifiers - Air Cleaners  
UV Air Purifiers - Heat/Energy Recovery Ventilators

**From the GeneralAire® Team:** *Our reputation rides on the products we offer, so expect the best with GeneralAire®. For more than 75 years GeneralAire® has designed and manufactured a full line of indoor air quality products that protect your valuables, and more importantly you and your family.*

*Easily installed in your HVAC system (and out of site), our residential whole house humidifiers, dehumidifiers, heat & energy recovery ventilators, air cleaners and UV air purifiers protect your home and family 24/7-365 days a year with minimal maintenance.*

*Install GeneralAire® today and Breathe Healthier.*

## Customer Service & Technical Support

Contact GeneralAire® for Assistance

Monday through Friday

8:00 am to 4:30 pm Eastern Standard Time

- Call us: Toll Free 866-476-5101
- Submit a Support Ticket at: [www.generalfilters.com/support](http://www.generalfilters.com/support)
- Email us: [customerservice@generalfilters.com](mailto:customerservice@generalfilters.com)



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All Information subject to change without notice.