Products *that let you* **breathe** *a little easier*®

Guide

to Indoor Air Quality Products

GENERALAire®
Fresh Indoor Air Quality

Company History

1937

Arthur and Grace Redner founded General Filters, Inc. (GFI) in 1937. It was in Detroit Michigan where Arthur Redner laid the foundation and perfected the application of vehicle lube oil filtration.

1940's

During World War II, Arthur Redner was awarded a government contract for an engine driven portable filter device for military aircraft ground support. The implementation of wool filter elements to clean lubricating oils was applied. It was here where the Trademark General Red Top and Black Can Fuel Oil Filter had its beginning in the residential oil heating market.

1949

GFI expanded operations to include Canada by founding Canadian General Filters, Ltd (CGF) in Scarborough, Ontario.

1950's

GFI diversified into other markets by introducing whole-house humidification to the home heating industry. GFI offered six flow-through pad type design models and featured two plate type design models as well. In 1955, Arthur Redner retired. Grace Redner assumed the presidency.

1969

Grace Redner presides as Chairman of the Board while sons Roland and Robert P. Redner manage the company into the 1980's each serving as president.

1980's

The General Humidifier was known for its performance, quality, and dependability. So it was time to apply those same standards with the introduction of the General high efficiency micro-fiber media air cleaner.

1990's

A unique whole-house activated charcoal base air purifier was introduced to reduce the affects of the growing problem of indoor air pollution. GFI rattles the saber with its early contribution and commitment to improve indoor air quality (IAQ). Robert P. Render presides as Board Chairman.

The 21st Century

The third generation of the Render Family leads General Filters, Inc. with the same commitment to manufacture dependable, high performance, premium indoor air quality products, fuel oil filters and accessories.

|	
John A. Redner	President
Carl Redner	Vice President of Engineering
Robert R. Redner	Vice President of Finance and Administration

Today, General Filters, Inc. continues to provide high quality products throughout North America by way of strong distribution partnerships. The strength of market presence is buoyed by recognizable brands as GeneralAire, General, Unifilter, GarBer and other private label branding agreements.

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

The average person spends 90% of a 24 hour day indoors. Our health could be at risk!
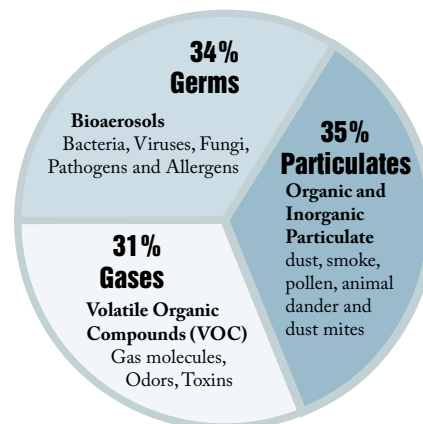
Improper humidity levels, dangerous gas molecules, mold spores, germs, and microscopic particulates all affect our long term health and comfort. GeneralAire has the answer to significantly reduce harmful airborne contaminants in the air we breathe. Install a GeneralAire Humidifier, UVC Photocatalytic Air Purifier, HEPA Air Cleaner, and a MAC Series Air Cleaner for a complete indoor air quality system.
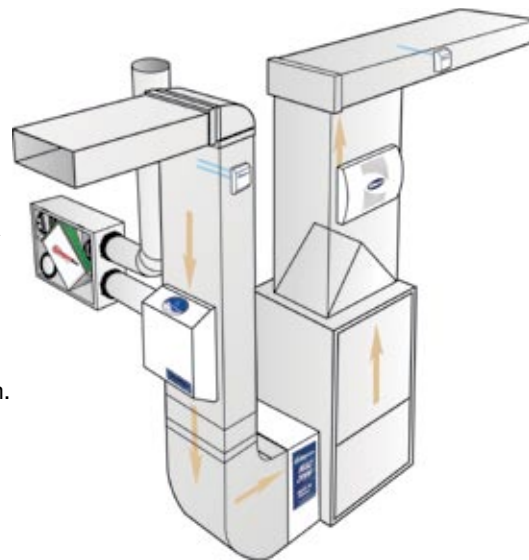
The Center for Disease Control and Prevention categorizes indoor air pollution into three phases: Particulates, Gases, and Germs.

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

34% Germs
Bioaerosols
Bacteria, Viruses, Fungi, Pathogens and Allergens

35% Particulates
Organic and Inorganic Particulate dust, smoke, pollen, animal dander and dust mites

31% Gases
Volatile Organic Compounds (VOC)
Gas molecules, Odors, Toxins

Table of Contents

Whole-House Humidifiers

Improve comfort indoors and maintain a healthy environment. Quality, Style and Commitment goes into every box so you can relax. Browse the selection of Steam, Flow-Through, and Reservoir Type Models to meet your needs.

Whole-House Air Cleaners

High efficiency air filtration options for clean, healthier air. You can expect relief from indoor allergic reactions due to airborne submicronic particulates with 99.97% efficiency at .30 micron with H.E.P.A. filtration. Other models available at MERV 11, 10, and 8 for your efficiency options.
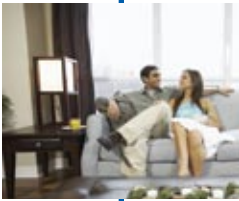
Energy & Heat Recovery Ventilation

Improve your indoor air quality introducing fresh outside air for better home comfort. An impressive selection of GeneralAire control options await your review and approval for an impressive installation.

Whole-House Dehumidification

Protect and control your indoor air from those sticky hot summer months for an efficient, comfortable, healthier home. Indoor air can become wet and musty in the summer months. We have an efficient whole-house solution for you to review.
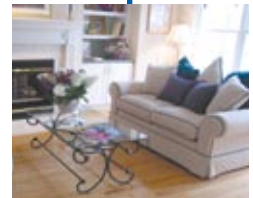
Ultraviolet Air Treatment

Breathe a little easier and significantly reduce levels of unwanted airborne microorganisms and gaseous contaminants with ultraviolet air treatment. Impressive ultraviolet technology methods are applied in a whole-house unit to eliminate indoor air pollution like the powerful purifying rays of the sun outdoors.

Customer Service & Technical Support

Contact for assistance Monday through Friday
8:00 am to 4:30 pm eastern standard time
Toll Free 866-476-5101
www.customerservice@generalfilters.com
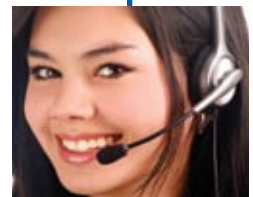
Elite Series **Steam Humidifiers**

We all have an investment in our health, homes and its furnishings. Protecting those investments from the dry air may not seem like an important task, but the effects of dry air are astounding:

- Dry nose and throat

- Itchy dry skin

- Cracking of expensive woodwork and floors

- Damage to household furnishings

- Static electricity shocks that can damage computers, VCRs and other electronic equipment

- Dry air pulls moisture from delicate membranes in your nose, throat and lungs and food doesn't taste as good

- Sleeping becomes difficult and your mental concentration is affected

2 years

GENERALAire ®
Fresh Indoor Air Quality

Model RS 15
Elite Series Steam Humidifier

- Integral Room Steam Blower
- E2 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 wide x 23 3/4 high
x 8 1/4 deep

Model RS 35
Elite Series Steam Humidifier

- Integral Room Steam Blower
- E2 Humidistat
- LCD user interface
- Drain tempering
- AHU Fan Relay
- Electrode Steam Generating Technology

Specifications

Power Supply
230Vac 50/60Hz

Steam Output
12 lbs/hr

Gallons per Day
35

Dimesions
13 1/8 wide x 23 3/4
high x 8 1/4 deep

Model DS 15
Elite Series Steam Humidifier

- Duct mount or remote blower kit options
- E2 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 wide x 23 3/4 high
x 8 1/4 deep

Model DS 35
Elite Series Steam Humidifier

- Duct mount or remote blower kit options
- E2 Humidistat
- LCD user interface
- Drain tempering
- AHU Fan Relay
- Electrode Steam Generating Technology

Specifications

Power Supply
230Vac 50/60Hz

Steam Output
12 lbs/hr

Gallons per Day
35

Dimensions
13 1/8 wide x 23 3/4 high
x 8 1/4 deep

Elite Series Steam Humidifiers

GeneralAire Elite Steam Humidifier Selection Guide

	Model	Type Voltage	Capacity	Square Footage Covered	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	RS15	Room Steam 120V	5.5 lbs/hr 15.84 gpd	Up to 3500	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeneralAire Elite Steam	RS35	Room Steam 230V	12 lbs/hr 34.55 gpd	Up to 6000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeneralAire Elite Steam	DS15	Duct Steam 120V	5.5 lbs/hr 15.84 gpd	Up to 3500	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeneralAire Elite Steam	DS35	Duct Steam 230V	12 lbs/hr 34.55 gpd	Up to 6000	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Duct Mount Kit	DMNKIT	Accessory Kit Option for DS Models														
Remote Blower Kit	RMB35	230V Accessory Kit Option for DS35														
Remote Blower Kit	RMB15	120V Accessory Kit Option for DS15														

Auto Drain Tempering	Steam Nozzle	Steam Hose	Condensate	Fill Connector	E2 Auto Digital Humidistat	Saddle Valve	Water Supply Tubing Kit	Air Pressure Proving Switch	Through Wall Blower Kit	Grille Package	CodeValve GCV3412 Ball Valve	Warranty	Replacement Steam Generating Cylinder	APRILAIRE	CAREL	NEPTRONIC	NORTEC	DRI-STEAM
Yes				Yes	Yes	Yes	Yes				Yes	2 Years	15-14		CHF02V1	SKR14	Res DLXE	
Yes				Yes	Yes	Yes	Yes				Yes	2 Years	35-14		CHF05V2	SKR25/30/40	Res DLXE	
Yes												2 Years	15-14		CH002V1	SKR14	Res DLXE	VT-2
Yes												2 Years	35-14	1150	CH005V2	SKR25/30/40	Res DLXE	VT-4
Yes	8ft	9ft		Yes	Yes	Yes	Yes	Yes			Yes							
	12ft	13ft		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
	12ft	13ft		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							

Brand Cross Reference

Elite Series **Humidifiers**

We spend most of our days indoors. It is important to control the indoor relative humidity to maintain a comfortable and healthy indoor air environment.

Very low humidity in your home in winter can result in dry, itchy skin or dry sinuses and nose. Dry skin can crack and peel and will look unattractive and can lead to infections. Dry noses and sinuses may lead to a clogging or swelling and closing of the air passages and cause breathing difficulty at night. Choosing a GeneralAire Humidifier will improve your comfort indoors and maintain a healthy environment so you can breathe a little easier.

- 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.

Model 1000
Elite Series Humidifier

- E2 Digital Automatic Humidistat that features a manual or automatic mode with an outdoor sensor for temperature compensating control is included.
- Fan-powered unit mounts easily on the warm air plenum and delivers 18 GPD.
- Evaporator pad replacement number GA19

Specifications

Unit Size
16" wide x 16-1/2" high x 10" deep

Plenum Opening
14" wide x 12" high

Model 950
Elite Series Humidifier

- E2 Digital Automatic Humidistat that features a manual or automatic mode with an outdoor sensor for temperature compensating control is included.
- GeneralAire's highest capacity model delivers 20 GPD and is ideal for today's larger homes.
- Replacement evaporator pad number GA23

Specifications

Unit Size
16" wide x 16-1/2" high x 11" deep

Plenum Opening
14" wide x 12" high

Bypass Duct
7" diameter

Model 900
Elite Series Humidifier

- E2 Digital Automatic Humidistat that features a manual or automatic mode with an outdoor sensor for temperature compensating control is included.
- Bypass humidifier mounts easily on the warm or return plenum and delivers 17 GPD.
- Evaporator pad replacement number GA19.

Specifications

Unit Size
12" wide x 16-1/2" high x 10" deep

Plenum Opening
8-3/4" wide x 12" high

Bypass Duct
6" diameter

Model 570
Elite Series Humidifier

- M3 Select-Control Humidistat is included.
- Bypass humidifier mounts easily on the warm or return plenum and delivers 12 GPD.
- Evaporator pad replacement number GA10.

Specifications

Unit Size
11-7/8" wide x 13-3/8" high x 9-1/2" deep

Plenum Opening
8-3/4" wide x 9.5" high

Bypass Duct
6" diameter

Elite Series Humidifiers

Elite Series Humidifiers

Model Selection Chart

	Model	Type	Gallons per Day @ 120 Deg.	Square Footage Covered	Humidity when System Fan Operates	M3 Select-Control Humidistat	E2 Humidistat 24V			
							Controls Dewpoint	Automatic Humidity Control Outdoor Temperature Compensation	Prevents Condensation on Windows	Digital LCD with Auto / Manual Modes & Outdoor Temperature Display
GeneralAire 570	570	Flow Through 6" Bypass	12	Up to 2856	Yes	Yes				
GeneralAire 900	900	Flow Through 6" Bypass	17	Up to 3940	Yes		Yes	Yes	Yes	Yes
GeneralAire 950	950	Flow Through 7" Bypass	20	Up to 4596	Yes		Yes	Yes	Yes	Yes
GeneralAire 1000	1000	Flow Through Fan Power	18	Up to 4214	Yes		Yes	Yes	Yes	Yes

Products that let you breathe a little easier

Optional Outdoor Sensor Included	KineticFlo® Distribution Trough for Even Water Distribution Across Vapor Pad®	Integrated Bypass Damper	Warranty	Stainless Steel Solenoid Valve Seat	CodeValve GCV3412 Ball Valve	DuraPlast® UV Stable Pad Frame	Replacement Vapor Pad®	Brand Capacity Cross Reference				
								LEGACY	APRILAIRE	HONEYWELL	SKUTTLE	TRION
	Yes	Yes	10 years	Yes	Yes	Yes	GA10		550	220A/B 225A/B	2000	G200
Yes	Yes	Yes	10 years	Yes	Yes	Yes	GA19	SL16 1042	560 600	260A/B 265A/B	2001	G300
Yes	Yes	Yes	10 years	Yes	Yes	Yes	GA23	1099				
Yes	Yes	No	10 years	Yes	Yes	Yes	GA19	1137	760 700	360A/B 365A/B	2002	G100

Legacy Series **Humidifiers**

We spend most of our days indoors. It is important to control the indoor relative humidity to maintain a comfortable and healthy indoor air environment.

Very low humidity in your home in winter can result in dry, itchy skin or dry sinuses and nose. Dry skin can crack and peel and will look unattractive and can lead to infections. Dry noses and sinuses may lead to a clogging or swelling and closing of the air passages and cause breathing difficulty at night. Choosing a GeneralAire Humidifier will improve your comfort indoors and maintain a healthy environment so you can breathe a little easier.

- 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.

GENERALAire ®
Fresh Indoor Air Quality

Model 1137
Legacy Series Humidifier

- M3 Select-Control Manual Humidistat is included.
- Fan-powered unit mounts easily on the warm air plenum and delivers 21.3 GPD.
- Evaporator pad replacement number 990-13.

Specifications

Unit Size
16" wide x 14" high x 10" deep

Plenum Opening
15" wide x 9-1/2" high

Model 1099
Legacy Series Humidifier

- M3 Select-Control Manual Humidistat is included.
- GeneralAire's highest capacity model delivers 23 GPD and is ideal for today's larger homes.
- Replacement evaporator pad number 1099-20

Specifications

Unit Size
16" wide x 16" high x 11" deep

Plenum Opening
13-1/4" wide x 9-1/4" high

Bypass Duct
7" diameter (collar supplied)

Models 1042 LH/DME
Legacy Series Humidifier

- Model 1042 LH includes the M3 Select-Control Manual Humidistat.
- Model 1042 DME includes the E2 Digital Automatic Humidistat.
- A highly efficient flow-through unit that delivers 19.2 GPD.
- Replacement evaporator pad number 990-13.

Specifications

Unit Size
15" wide x 11-1/2" high x 9" deep

Plenum Opening
10-1/4" wide x 9-1/2" high

Bypass Duct
6" diameter (collar supplied)

M3 Select-Control
Humidistat for the LH

E2 Digital Automatic
Humidistat for the DME

Models SL16/SL16 DM
Legacy Series Humidifier

- M3 Select-Control Manual Humidistat is included.
- Replacement evaporator pad number 990-13.
- It fits as small as 8.5" ducts and delivers 19.2 gallons of water per day.

Specifications

Unit Size
12" wide x 16-1/2" high x 9-3/4" deep

Plenum Opening
7-1/2" wide x 8-1/4" high

Bypass Duct
6" diameter left or right

Legacy Series Humidifiers

GeneralAire Legacy Humidifier Selection Guide

| | Model | Type | Gallons per Day @ 140 Deg. | Square Footage Covered | M3 Select-Control Humidistat with Comfort Range Gradient | Humidity when System Fan Operates | E2 Humidistat 24V | | | | | KineticFlo® Distribution Trough for Even Water Distribution Across Vapor Pad® | |
							Controls Dew point	Automatic Humidity Control Outdoor Temperature Compensation	Prevents Condensation on Windows	Digital LCD with Auto / Man Modes Outdoor Temperature Display	Optional Outdoor Sensor Included		
GeneralAire SL16	SL16	Flow Through 6" Bypass	19	Up to 2856	Yes	Yes						Yes	
	SL16DM												
GeneralAire 1042	1042LH	Flow Through 6" Bypass	19	Up to 3940	Yes	Yes						Yes	
	1042DME						Yes	Yes	Yes	Yes	Yes	Yes	
GeneralAire 1099	1099LH	Flow Through 7" Bypass	23	Up to 4596	Yes	Yes						Yes	
GeneralAire 1137	1137	Flow Through Fan Power	21	Up to 4214	Yes	Yes						Yes	

Integrated Bypass Damper	Warranty	Stainless Steel Solenoid Valve Seat	16-21 Flush Duct Mount Humidistat	Voltage	Solenoid	Tap Valve	10 ft 24V Thermostat Wire	15 ft 5/8" Drain Hose	10 ft Water Sply Tube	Transformer	24 ft Bypass Duct	Plenum Ring	Damper Assembly	Narrow Duct Adapter Plate	Replacement Vapor Pad®	Brand Capacity Cross Reference					
																ELITE	APRILAIRE	HONEYWELL	SKUTTLE	TRION	SOURCE-1
	5 years	Yes	Yes	24V	Yes	Yes										900	560	260A/B			
				24V	Yes	Yes	Yes	Yes	Yes	Yes	6"	6"	6"		990-13		600	265A/B	2001	G300	S1-HU17MB
Yes	5 years	Yes		24V	Yes	Yes		Yes		Yes						900	560	260A/B			
				24V	Yes	Yes	Yes	Yes	Yes	Yes	6"	6"	6"	Yes	990-13		600	265A/B	2001	G300	S1-HU17MB
	5 years	Yes		24V	Yes	Yes		Yes		Yes					1099-20	950					
	5 years			120V	Yes	Yes	Yes	Yes		Yes					990-13	1000	760 700	360A/B 365A/B	2002	G100	S1-HU18MP

Legacy Series **Drum Humidifiers**

We spend most of our days indoors. It is important to control the indoor relative humidity to maintain a comfortable and healthy indoor air environment.

Very low humidity in your home in winter can result in dry, itchy skin or dry sinuses and nose. Dry skin can crack and peel and will look unattractive and can lead to infections. Dry noses and sinuses may lead to a clogging or swelling and closing of the air passages and cause breathing difficulty at night. Choosing a GeneralAire Humidifier will improve your comfort indoors and maintain a healthy environment so you can breathe a little easier.
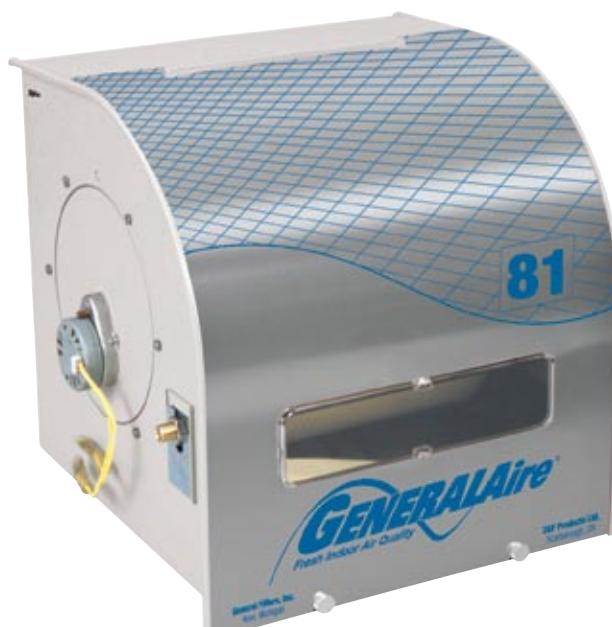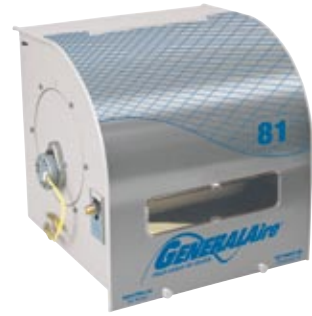
Model 81
Legacy Series Drum Humidifier

- M3 Select-Control Manual Humidistat is included.
- High-capacity model delivers 18 GPD.
- Split drum design allows easy removal of evaporator sleeve part number 81-15.

Specifications

Unit Size
12" wide x 11-1/2" high x 11" deep

Plenum Opening
8" wide x 7-1/2" high

Bypass Duct
6" diameter
(bypass pipe assembly supplied)

Model 65
Legacy Series Drum Humidifier

- M3 Select-Control Manual Humidistat is included.
- An ideal humidifier that delivers 13.3 GPD.
- Replacement evaporator sleeve part number 65-5.

Specifications

Unit Size
10" wide x 9" high x 9-1/2" deep

Plenum Opening
7-3/4" wide x 5-3/4" high

Bypass Duct
5" diameter
(bypass pipe assembly supplied)

Model 747 L
Legacy Series Drum Humidifier

- A compact unit that mounts in the warm air supply duct when bypass or flow through installations aren't possible.
  This unit delivers 16.0 GPD.
- Equipped with a built-in humidity control.
- Replacement evaporator sleeve part number 727-12.

Specifications

Unit Size
12" wide x 16" high x 4" deep

Plenum Opening
10-1/2" wide x 15-1/8" high

Model 800
Legacy Series Drum Humidifier

- All forced warm air heating system.
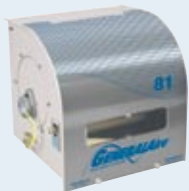- Evaporator pad replacement number 880 plates.

Specifications

Unit Size
9" wide x 6-3/4" high x 7-1/2" long

Bypass Duct
N/A

Legacy Series Drum Humidifiers

GeneralAire Legacy Drum Humidifier Selection Guide

	Model	Type	Gallons per Day @ 140 Deg.	Square Footage Covered	M3 Select-Control Humidistat with Comfort Range Gradient	747-26 Temp. Actuated Humid-ity Control & Plug-In Transformer	Humidity when System Fan Operates	Warranty	
GeneralAire 81	81	Float Reservoir Drum	18	Up to 4571	Yes		Yes	1 year	
GeneralAire 65	65	Float Reservoir Drum	13	Up to 3333	Yes		Yes	1 year	
GeneralAire 747L	747L	Under-Duct Drum	16	Up to 3809		Yes		1 year	
GeneralAire 800	800	Plate Type	Up to 4.2	Up to 1000				1 year	

Voltage	Saddle Tap Valve	10 ft 24V Thermostat Wire	10 ft Water Sply Tube	Transformer	24 ft Bypass Duct	Plenum Ring	Damper Assembly	Float Valve	Replacement Vapor Pad®	Brand Capacity Cross Reference		
										HONEYWELL	SKUTTLE	AUTO FLOW
24V	Yes	Yes	Yes	Yes	6"	6"	6"	Yes	81-15	HE120A	90	97
24V	Yes	Yes	Yes	Yes	5"		5"	Yes	65-5		45	800BP 200P
120V	Yes	Yes	Yes					Yes	727-12		86UD	
	Yes		Yes						880			

General Series UV Air Purifiers

The air we breathe in our homes can be up to 100 times more polluted than out-door air, according to the Environmental Protection Agency. So let GeneralAire provide you with healthier indoor air and "Let the Sunshine In!" with GeneralAire UV Air Purifiers.

GeneralAire's Ultraviolet (UV) light technology enables you to have whole-house air treatment energy, like the sun, to improve your homes indoor air quality.

Battle microorganisms with air treatment irradiation or disinfect your cooling coil by choosing the surface irradiation method. For best results, combine air treatment irradiation with coil surface irradiation for the most effective UV solution.

- QuartzCoat® Lamp Life Extension Coating (18,000) Hours) 2 year lamp replacement
- Power Cord Disconnect (Appliance Coupler Design)
- Max 2000 CFM or 4500 SQ ft
- 5 Year Ballast Warranty

GENERALAire®
Fresh Indoor Air Quality

Model GUV25403A
General Series UV Air Purifier

- 36 watt, 16 inch Germicidal H-Lamp UVV16HC
- 180 µW/cm²@1 meter UVC Lamp Intensity Rating
- 8 watt, 5 inch Super Plasma Lamp UVV5CL
- 12 µW/cm²@1 meter UVV Lamp Intensity Rating
- 120 VAC / 240VAC Regulating Electronic Ballast

Specifications

4" x 11.75" x 2.75"
(W x H x D)

Max 2000 CFM or 4500 SQ ft

Model GUV100A83
General Series UV Air Purifier

- 36 watt, 16" UVC Germicidal H-lamp UVV16HC
- 180 µW/cm²@1 meter UVC Lamp Intensity Rating
- 120 VAC / 240 VAC Regulating Electronic Ballast

Specifications

4" x 8.75" x 2.75"
(W x H x D)

Max 2000 CFM or 4500 SQ ft

Model PCO2450
General Series UV Air Purifier

- 50 Watt 18 inch UVC Lamp
- 135 µw/cm²@ 1 meter UVC Lamp Intensity Rating
- High Output Temperature Compensating (HOTC) 120v / 240v Ballast
- 24 SQ ft Titanium Dioxide TiO2 Anatase Semi-conductor

Specifications

8-1/2" x 7-3/8" x 2"
(W x H x D)

Max 2000 CFM or 4000 SQFT

Model GUV2224
General Series UV Air Purifier

- 22 Watt 16 inch UVC Lamp
- 70 µW/cm²@1 meter UVC Lamp Intensity Rating
- 24 VAC Regulating Electronic Ballast

Specifications

Max 1400 CFM or 2000 SQ ft

COMING SOON!

GeneralAire Ultraviolet Air Purifier Selection Guide

Model	Air Treatment Irradiation	Surface Disinfection	Electronic Ballast	High Output Intensity Rating	Appliance Coupler Disconnect	Lamp Life 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 Ti02 VectorFlo® Semi-conductor
GUV100A83 GUV100A83	Yes	Yes	Yes	Yes	Yes	Yes	16 inch UVC H-Lamp 36 watts	180		
GUV25403A GUV25403A	Yes	Yes	Yes	Yes	Yes	Yes	16 inch UVC H-Lamp 36 watts / 5 inch UVV 8 watts	180 / 12	Yes	
PCO2450 PCO2450	Yes		Yes	Yes	Yes	Yes	18 inch 50 watts	135		Yes
GUV2224 Coming Soon! S1-UV22024	Yes	Yes	Yes				16 inch 22 watts	70		

Voltage	QuartzCoat® Extend Lamp Life Coating	Kill Rate	Application Range	Warranty	Brand Cross Reference				
					DUSTFREE MODEL	SOURCE 1 MODEL	HONEYWELL MODEL	TRIATOMIC MODEL	FIELD CONTROLS MODEL
120V or 240V	18,000 hours 2 year Lamp Life	Independent Lab Studies Pending	2000 CFM or 4500 SQFT	5 years	Triad Flex-Mount	S1-UV36120	UV100A1059	FreshAire UV	UV-12 UV-18 UV-28
120V or 240V	18,000 hours 2 year Lamp Life	Independent Lab Studies Pending	2000 CFM or 4500 SQFT	5 years		S1-UV50120			
120V or 240V	18,000 hours 2 year Lamp Life	Independent Lab Studies Pending	2000 CFM or 4000 SQFT	5 years					
24V	18,000 hours 2 year Lamp Life	Independent Lab Studies Pending	1400 CFM or 2000 SQFT	5 years	Lightstick	S1-UV22024	NA	Blue-TubeUV	UV-16R24V

Energy/Heat Recovery Ventilators
Whole House Dehumidifier

Improve indoor air quality by efficiently introducing fresh outside air into the home while discharging stale indoor air outdoors. The GeneralAire HRV / ERV product line offers many desirable features that the competition does not. The patented DualTrol® control eliminates the need for fixed damper balancing of the system. The DualTrol® varies the speed of the intake and discharge motors for the precise balancing consistently.

Models 3610 & 3220

Energy Recovery Ventilators

- 2 operating modes (Intermittent and Continuous Ventilation)
- Variable speed
- Proportional defrost (Patent Pending)
- ISF™ 6" (dia.) 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
3610: 23-7/8" x 21-1/2" x 11-3/8"
3220: 23-7/8" x 21-1/2" x 16-1/2"

Heat exchanger (L x H x W)
3610: 12" x 12" x 10"
3220: 12" x 12" x 15"

CFM
3610: 30 to 160
3220: 50 to 220

Models 8160 & 8220

Heat Recovery Ventilators

- 2 operating modes (Intermittent and Continuous Ventilation)
- Variable speed
- Proportional defrost (Patent Pending)
- ISF™ 6" (dia.) 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" x 21-1/2" x 11-3/8"
8220: 23-7/8" x 21-1/2" x 16-1/2"

Heat exchanger (L x H x W)
8160: 12" x 12" x 10"
8220: 12" x 12" x 15"

CFM
8160: 30 to 160
8220: 50 to 220

Dehumidifier

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

HRV/ERV & Whole House 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	
	3160	Yes	Yes	Yes	163	74%	Yes	Yes	
	3220	Yes	Yes	Yes	195	72%	Yes	Yes	
	8160	Yes	NA	Yes	163	78%	Yes	Yes	
	8220	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 Intregal Dehumidistat	R-4.5 Cabinet Insulation	
	1300	130 pints	400 CFM	115V-1 9.5 RLA	Washable Nylon Mesh	150lbs	Yes	1 Expanded Polymeric Material	

DualTrol®	Warranty	Brand Cross Reference				
		APRILAIRE	SOURCE 1	HONEYWELL	VENAMR	BROAN
Yes	5 years	NA	S1-ERV160	ER1502006	AVS Duo 1.4	ERV100HC
Yes	5 years	8100	S1-ERV220	ER200B2006	AVS Duo 1.9	ERV200HC
Yes	5 years	NA	S1-HRV160	HR150B1005	AVS Constucto 1.5 AVS Solo 1.5	HRV100H
Yes	5 years	NA	S1-HRV220	HR200B1005	AVS Constucto 2.0 AVS Solo 2.0	HRV200H

Thermostatic Expansion valve	Warranty	Brand Cross Reference				
		Aprilaire Model	Source 1 Model	Honeywell Model	ThermaStor UltraAire Model	HealthyAIr Model
Yes	5 years	1700 1720	S1-DEHU130	DH90	UA-90H UA-135H	DVA150NC DVA400H

Importance of Air Filtration

While it's easy to focus on visible pollutants…smokestacks, vehicle exhaust and the outdoors, the air inside your home can be even more hazardous to your health. In fact, indoor air can be up to 100 times more polluted than the air we breathe outdoors. Studies show, that most people spend as much as 90% of their time indoors.

AC500 HEPA Air Cleaner

- Dimension (D x W x H): 13" x 17" x 22"

- Performance: 200/300CFM

- Voltage: 120 VAC @ 60 Hz

- Amperage: 1.5A

- Power Consumption : 130W

- Certification: c CSA us

- Efficiency: 99.97 @ .30 microns

High Efficiency Media Air Cleaners

- GeneralAire Media meets test standard ANSI / ASHRAE 52.2-1999.

- 10-year cabinet warranty

AC22-Coming Soon!
High Efficiency Media Air Cleaner

GENERALAire ®
Fresh Indoor Air Quality

AC24

High Efficiency Media Air Cleaner

- MERV 11 Micro Fiber

- No-tear design

- Strong expandable media

- 75% dust spot efficiency
  1.0 to 3.0 microns

Specifications

Cabinet Dimensions
17-3/4" x 28" x 10"

Duct Opening (D x E)
Inlet: 15-7/16" x 23-13/16"
Outlet: 15-7/16" x 24-1/2"

Filter Size
72.4 sq. ft.

MAC 2000

Mega–MAC

- MERV 10 Opti-Fiber Media

- Opti-Fiber Media with low pressure drop characteristics.

- 61.8% minimum average efficiency
  1.0 to 3.0 microns.

Specifications

Cabinet Dimensions
20-7/8" x 25-3/4" x 7-1/16"

Duct Opening (D x E)
18" x 22"

Filter Size
20" x 25" x 5"

MAC 1400

Mighty–MAC

- MERV 10 Opti-Fiber Media

- Opti-Fiber Media with low pressure drop characteristics.

- 61.8% minimum average efficiency
  1.0 to 3.0 microns.

Specifications

Cabinet Dimensions
16-7/8" x 25-3/4" x 7-1/16"

Duct Opening
14" x 22"

Filter Size
16" x 25" x 5"

MAC 1200

Mini–MAC

- MERV 8 Opti-Fiber Media

- Opti-Fiber Media with low pressure drop characteristics.

- 53.1% minimum average efficiency
  1.0 to 3.0 microns.

Specifications

Cabinet Dimensions
16-7/8" x 25-3/4" x 5-1/16"

Duct Opening
14" x 22"

Filter Size
16" x 25" x 3"

High Efficiency Media Air Cleaners

AC500 HEPA/Media Air Cleaners
Model Selection Chart

	Model	Type	Unit H x D x W Size	Application	Rated Airflow CFM	MERV Rating	Arrestance Efficiency at 492 FPM	Dust Spot Efficiency at 492 FPM	
GeneralAire Air Cleaner Selection Guide									
AC500	AC500	H.E.P.A. 120V	22 x 13 x 17	Bypass Duct Mount or Remote Mount	300	99.97% at .30 Microns	NA	NA	
AC22 / AC24	AC22	Expandable Media	20 x 25 x 10	Inline	1600	11	99% 1.0 to 3.0 microns	75% 1.0 to 3.0 microns	
	AC24		16 x 28 x 10						
MAC1400 MAC2200	MAC1400	Cartridge Media	16 x 25 x 7	Inline	1400	10	75% 1.0 to 3.0 microns	61.80% 1.0 to 3.0 microns	
	MAC2000		20 x 25 x 7	Inline	2000				
MAC1200	MAC1200	Cartridge Media	16 x 25 x 5	Inline	1200	10	75% 1.0 to 3.0 microns	53.40% 1.0 to 3.0 microns	

Brand Cross Reference

Initial Pressure Drop	Maintenance Cycle	Filter Media Size Nominal Part Number	G99 Airflow Indicator Gage	Warranty	APRILAIRE MODEL	SOURCE 1 MODEL	HONEYWELL MODEL	TRION AIR BEAR MODEL
NA	Prefilter & Charcoal Filter Every Six Months / H.E.P.A. Every Two Years	HMK500 Annual Repl. Kit / HF500 H.E.P.A. Repl Filter	NA	10 years	NA	S1-HEPA300	F500A1000	NA
.22 in. w.c.	Every 12 Months	20 x 25 x 6 12758	Intregal	10 years	2200	S1-MAC11202506	NA	NA
.20 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 4511	Optional	10 years	2120	S1-MAC10162505	F100F1012	Supreme 1400
		20 x 25 x 5 4501			2140	S1-MAC10202505	F100F1038	Supreme 2000
.23 in. w.c.	Every 6 Months	16 x 25 x 3 4521	Optional	10 years				Air Bear Cub NLA

Accessories

Model E2
Automatic Digital Humidistat

- Outdoor Temperature Compensating Feature
- Operate in Manual or Automatic Modes
- Calibration is Adjustable
- Wall or Duct Mount
- Contemporary Design for Living Space Mounting

Model M3
Select–Control Humidistat

- Operates in Manual Mode
- Wall or Duct Mount
- Contemporary Design for Living Space Mounting

Model G98
Indoor Humidity/Temp. Gage

- Digital Humidity Display
- Digital Temperature Display
- Wall Mounted or Table Top Positioning

Model G99
Air Filter Gage

- Since the cleanliness of all homes are not equal, GeneralAire offers an easy-to-use, easy-to-read gage. The air filter media will load, capturing airborne particulates, raising the gage indicator to the red-zone, letting you know it's time to change your filter.

GA19 & GA23
Humidifier VaporPad®

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

GA10/GA12/GA35
Humidifier VaporPad®

- GA10 fits AprilAire models 110, 220, 558, and 550, and for Honeywell models HE220 and HE225
- GA12 fits AprilAire models 224, 112, 440, 445A and 445
- GA35 fits AprilAire models 350, 360, 568, 560, 600, 768, 760 and 700 and for Honeywell models HE260, HE265, HE360 and HE365

GA4040
Solenoid Valve

- 24V
- Fits AprilAire humidifiers and GeneralAire Elite Humidifiers
- Stainless steel seat

GA50 & GA51
24V Current Sensing Relay

- GA50:
- 24 volt Current Sensing Relay
- Makes blower control isolation easy
- Great for humidifiers

- GA51:
- 120 volt Current Sensing Relay
- Makes blower control isolation easy
- Great for electronic air cleaners and small load rated fans

990-13 & 1099-20
Humidifier Evaporator Pads

- GA900-13-Replacement pad for humidifier model 709, 990, 1040, 1042, 1137 and SL16
- GA1099-20-Replacement pad for humidifier model 1099

Accessories

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 (see Table 2: MERV Parameters.) Move up the appropriate Range Group (E1, E2, and E3) on Table 2 and record the MERV to the left of the first true statement. Do this for all three groups.

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	E1
3	0.55 to 0.70	E1
4	0.70 to 1.00	E1
5	1.00 to 1.30	E2
6	1.30 to 1.60	E2
7	1.60 to 2.20	E2
8	2.20 to 3.00	E2
9	3.00 to 4.00	E3
10	4.00 to 5.50	E3
11	5.50 to 7.00	E3
12	7.00 to 10.00	E3

TABLE 3: MERV PARAMETERS

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, μm			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 ≤ E3 < 35	n/a	150	.6
6	n/a	n/a	35 ≤ E3 < 50	n/a	150	.6
7	n/a	n/a	50 ≤ E3 < 70	n/a	150	.6
8	n/a	n/a	70 ≤ E3	n/a	150	.6
9	n/a	E2 < 50	85 ≤ E3	n/a	250	1.0
10	n/a	50 ≤ E2 < 65	85 ≤ E3	n/a	250	1.0
11	n/a	65 ≤ E2 < 80	85 ≤ E3	n/a	250	1.0
12	n/a	80 ≤ E2	90 ≤ E3	n/a	250	1.0
13	E1 ≤ 75	90 ≤ E2	90 ≤ E3	n/a	350	1.4
14	75 ≤ E1 < 85	90 ≤ E2	90 ≤ E3	n/a	350	1.4
15	85 ≤ E1 < 95	90 ≤ E2	90 ≤ E3	n/a	350	1.4
16	95 ≤ E1	95 ≤ E2	95 ≤ E3	n/a	350	1.4

*Information provided from the National Air Filtration Association

UV Potency Required for Microbe Disinfection (measured as microWatt seconds per centimeter squared µW-sec/cm²)	
Bacteria	**UV Dose**
Bacillus Paratyphosus	6,100
Legionnella Bozemanii	3,500
Legionnella 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.

Ultraviolet wavelength potency is measured at one meter form the lamp. An accepted standard measurement by lamp manufactures. Calculate ultraviolet radiation potency at measured distances by multiplying the potency of the lamp (µW/cm² @ 1 meter) by the potency factor. Example: Multiply the GUV100A83 potency output of (180 µW/cm² @ 1 meter) by the distance of 2 inches (69 Potency Factor) = 12,420 µW/cm².

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

GeneralAire Model	Lamp Length	Voltage	Lamp Output in Watts	HOTC Electronic Regulating Ballast	Max SQ FT Range	Lamp Potency µW/cm² @ 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"	120/230	50	Yes	4000	135	5 year
GUV2224	16"	24	22	–	2000	70	5 year

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Our reputation rides on the products we provide, so don't settle for less, expect the best with GENERALAire residential whole house humidifiers, air cleaners and air purifiers. For more than 65 years GENERALAire has designed and manufactured a full line of efficient and reliable residential indoor air quality products. We put more value in the box as our signature of commitment to you.

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Fresh Indoor Air Quality

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