Products that let you breathe a little easier

Guide to Indoor Air Quality Products

GENERAL Aire®
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.
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
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
- **Dimensions** 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
## GeneralAire Elite Steam Humidifier Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Type Voltage</th>
<th>Capacity</th>
<th>Square Footage Covered</th>
<th>Electrode Technology</th>
<th>Replacement Steam Cylinder</th>
<th>Integrated Mount Blower</th>
<th>Capacity Adjustment</th>
<th>Remote Enable &amp; Alarm Relay</th>
<th>LCD Graphic Display</th>
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<th>Proportional 0 to 10V and ON-OFF</th>
<th>Cylinder Hour Counter</th>
<th>Auto Drain 3 Day Off</th>
<th>AHI Fan Relay</th>
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<td><strong>GeneralAire Elite Steam</strong>&lt;br&gt;RS15</td>
<td>Room Steam 120V</td>
<td>5.5 lbs/hr&lt;br&gt;15.84 gpd</td>
<td>Up to 3500</td>
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<td>Steam Nozzle</td>
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<td>Condensate</td>
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<td>Sulde Valve</td>
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<td>Air Pressure Proving Switch</td>
<td>Through Wall Blower Kit</td>
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12ft 13ft Yes Yes Yes Yes Yes Yes
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.

Fresh Indoor Air Quality
**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

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**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

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**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

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**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
### GeneralAire Elite Series Humidifier Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Gallons per Day @ 120 Deg.</th>
<th>Square Footage Covered</th>
<th>Humidity when System Fan Operates</th>
<th>M3 Select-Control Humidistat</th>
<th>E2 Humidistat 24V</th>
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<td>Controls Dewpoint</td>
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<td>GeneralAire 570</td>
<td>570  Flow Through 6” Bypass</td>
<td>12</td>
<td>Up to 2856</td>
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<td>GeneralAire 900</td>
<td>900  Flow Through 6” Bypass</td>
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<td>Up to 3940</td>
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<td>950  Flow Through 7” Bypass</td>
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<td>1000  Flow Through Fan Power</td>
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<td>Optional Outdoor Sensor Included</td>
<td>KineticFlo® Distribution Trough for Even Water Distribution Across Vapor Pad®</td>
<td>Integrated Bypass Damper</td>
<td>Warranty</td>
<td>Stainless Steel Solenoid Valve Seat</td>
<td>CodeValve GCV3412 Ball Valve</td>
<td>DuraPlast® UV Stable Pad Frame</td>
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Legacy Series **Humidifiers**

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- 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 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.

**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.

**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.

**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.
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Gallons per Day @ 140 Deg</th>
<th>Square Footage Covered</th>
<th>M3 Select-Control Humidistat with Comfort Range Gradient</th>
<th>Humidity when System Fan Operates</th>
<th>E2 Humidistat 24V</th>
<th>KineticFlo® Distribution Trough for Even Water Distribution Across Vapor Pad®</th>
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<tbody>
<tr>
<td>GeneralAire</td>
<td>SL16</td>
<td>Flow Through 6” Bypass</td>
<td>19</td>
<td>Up to 2856</td>
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<td>Flow Through 7” Bypass</td>
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*GeneralAire Legacy Humidifier Selection Guide*
<table>
<thead>
<tr>
<th>Integrated Bypass Damper</th>
<th>Warranty</th>
<th>Stainless Steel Solenoid Valve Seat</th>
<th>16-21 Flush Duct Mount Humidistat</th>
<th>Voltage</th>
<th>Solenoid</th>
<th>Tap Valve</th>
<th>10 ft 24V Thermostat Wire</th>
<th>Transformer</th>
<th>24 ft Bypass Duct</th>
<th>Plenum Ring</th>
<th>Damper Assembly</th>
<th>Narrow Duct Adapter Plate</th>
<th>Replacement Parts P/N</th>
<th>Humidistat Brand Capacity Cross Reference</th>
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<tr>
<td>Yes</td>
<td>24V</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>6&quot;</td>
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<td>900</td>
<td>600</td>
<td>260A/B</td>
<td>Elite, Aprilaire, Honeywell, Skuttle, Trion, Source-1</td>
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<td>360A/B</td>
<td>Elite, Aprilaire, Honeywell, Skuttle, Trion, Source-1</td>
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</table>

Additional details:
- **Humidity and System Fan Operates**: E2 Humidistat 24V
- **Distribution Trough**: KineticFlo®
- **Integrated Bypass Damper**: Yes
- **Humidistat with Comfort Range Gradient**: Yes
- **Warranty**: Stainless Steel Solenoid Valve Seat
- **Solenoid Valve Seat**: Integrated Bypass Damper
- **Solenoid Tap Valve**: 10 ft Water Supply Tube
- **16-21 Flush Duct Mount**: Humidistat
- **10 ft 24V Thermostat Wire**: Transformer
- **24 ft Bypass Duct**: Plenum Ring
- **Plenum Ring**: Damper Assembly
- **Narrow Duct Adapter Plate**: 16-21 Flush Duct Mount
- **Replacement Parts P/N**: 24V
- **Humidistat Brand Capacity Cross Reference**: Elite, Aprilaire, Honeywell, Skuttle, Trion, Source-1
- **Digital LCD with Auto / Man Modes**: Yes
- **Outdoor Temperature Display**: Optional
- **Outdoor Sensor**: Included
- **Automatic Humidity Control**: Yes
- **Dew point Control**: Outdoor Temperature Compensation
- **Prevents Condensation on Windows**: Yes
- **E L I T E**
- **A P R I L A I R E**
- **H O N E Y W E L L**
- **S K U T T L E**
- **T R I O N**
- **S O U R C E - 1**
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
# GeneralAire Legacy Drum Humidifier Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Gallons per Day @ 140 Deg.</th>
<th>Square Footage Covered</th>
<th>M3 Select-Control Humidistat with Comfort Range Gradient</th>
<th>747-26 Temp. Actuated Humidity Control &amp; Plug-In Transformer</th>
<th>Humidity when System Fan Operates</th>
<th>Warranty</th>
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<tbody>
<tr>
<td>GeneralAire 81</td>
<td>Float Reservoir Drum</td>
<td>18</td>
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<td>Voltage</td>
<td>Saddle Tap Valve</td>
<td>10 ft 24V Thermostat Wire</td>
<td>10 ft Water Sply Tube</td>
<td>Transformer</td>
<td>24 ft Bypass Duct</td>
<td>Plenum Ring</td>
<td>Damper Assembly</td>
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<tr>
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<td>Yes</td>
<td>Yes</td>
<td>5&quot;</td>
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<td>Yes</td>
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</table>
General Series **UV Air Purifiers**

The air we breathe in our homes can be up to 100 times more polluted than outdoor 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
**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 UV Lamp Intensity Rating
- 120 VAC / 240VAC Regulating Electronic Ballast

**Specifications**
- 4" x 11.75" x 2.75"
- 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 / 240VAC Regulating Electronic Ballast

**Specifications**
- 4" x 8.75" x 2.75"
- 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"
- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Air Treatment Irradiation</th>
<th>Surface Disinfection</th>
<th>Electronic Ballast</th>
<th>High Output Intensity Rating</th>
<th>Appliance Coupler Disconnect</th>
<th>Lamp Life Indicator</th>
<th>Lamp Length and Wattage Output</th>
<th>Lamp Intensity Output Measured as mw/cm² @1 meter</th>
<th>Super Plasma Broad Spectrum Quartz Lamp with Oxy Regulator</th>
<th>Photocatalytic Oxidation Process with 3500 SQ IN 24 SQ ft Anatase TiO2 VectorFlo® Semi-conductor</th>
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<tbody>
<tr>
<td>GUV100A83</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>16 inch UVC H-Lamp 36 watts</td>
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**Coming Soon!**
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<tr>
<th>Voltage</th>
<th>QuartzCoat® Extend Lamp Life Coating</th>
<th>Kill Rate</th>
<th>Application Range</th>
<th>Warranty</th>
<th>Brand Cross Reference</th>
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<td>120V or 240V</td>
<td>2 years Lamp Life</td>
<td>Independent Lab Studies Pending</td>
<td>2000 CFM or 4500 SQFT</td>
<td>Triad Flex-Mount</td>
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<td>2 years Lamp Life</td>
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<td>Lightstick</td>
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<td>UV-16R24V</td>
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</table>
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
### GeneralAire Energy and Heat Recovery Ventilator Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Heat Transfer</th>
<th>Moisture Transfer</th>
<th>Defrost Control</th>
<th>Net Airflow @ 0.20 in. wg</th>
<th>Sensible Recovery Efficiency</th>
<th>HV I Certified</th>
<th>Variable Speed Balancing Fan Motors (2)</th>
<th>Insulated Cabinet</th>
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<td>74%</td>
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### GeneralAire Whole-House Dehumidifier Selection Chart

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<th>Capacity</th>
<th>Airflow @ 0.60 in. w.c.</th>
<th>Power Supply</th>
<th>Filter</th>
<th>Weight</th>
<th>Adjustable Intregal Dehumidistat</th>
<th>R-4.5 Cabinet Insulation</th>
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</thead>
<tbody>
<tr>
<td>1300</td>
<td>130 pints</td>
<td>400 CFM</td>
<td>115V-1 9.5 RLA</td>
<td>Washable Nylon Mesh</td>
<td>150lbs</td>
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<td>1 Expanded Polymeric Material</td>
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25
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<th>Warranty</th>
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<td>S1-ERV160</td>
<td>ER1502006</td>
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<td>8100</td>
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<td>HR200B1005</td>
<td>AVS Constucto 2.0</td>
<td>HRV200H</td>
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<table>
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<tr>
<th>Thermostatic Expansion valve</th>
<th>Warranty</th>
<th>Aprilaire Model</th>
<th>Source 1 Model</th>
<th>Honeywell Model</th>
<th>ThermaStor UltraAire Model</th>
<th>HealthyAir Model</th>
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<tbody>
<tr>
<td>Yes</td>
<td></td>
<td>1700 1720</td>
<td>S1-DEHU130</td>
<td>DH90</td>
<td>UA-90H UA-135H</td>
<td>DVA150NC DVA400H</td>
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</tbody>
</table>
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
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"
### GeneralAire Air Cleaner Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Unit H x D x W Size</th>
<th>Application</th>
<th>Rated Airflow CFM</th>
<th>MERV Rating</th>
<th>Arrestance Efficiency at 492 FPM</th>
<th>Dust Spot Efficiency at 492 FPM</th>
</tr>
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<tbody>
<tr>
<td>AC500</td>
<td>H.E.P.A. 120V</td>
<td>22 x 13 x 17</td>
<td>Bypass Duct Mount or Remote Mount</td>
<td>300</td>
<td>99.97% at .30 Microns</td>
<td>NA</td>
<td>NA</td>
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<td>AC22</td>
<td>Expandable Media</td>
<td>20 x 25 x 10</td>
<td>Inline</td>
<td>1600</td>
<td>11</td>
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<td>75% 1.0 to 3.0 microns</td>
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<tr>
<td>AC24</td>
<td>16 x 28 x 10</td>
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<td></td>
<td></td>
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<tr>
<td>MAC1400/MAC2200</td>
<td>Cartridge Media</td>
<td>16 x 25 x 7</td>
<td>Inline</td>
<td>1400</td>
<td>10</td>
<td>75% 1.0 to 3.0 microns</td>
<td>61.80% 1.0 to 3.0 microns</td>
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<tr>
<td>MAC2000</td>
<td>20 x 25 x 7</td>
<td>Inline</td>
<td>2000</td>
<td>10</td>
<td>75% 1.0 to 3.0 microns</td>
<td>53.40% 1.0 to 3.0 microns</td>
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<tr>
<td>MAC1200</td>
<td>Cartridge Media</td>
<td>16 x 25 x 5</td>
<td>Inline</td>
<td>1200</td>
<td>10</td>
<td>75% 1.0 to 3.0 microns</td>
<td>53.40% 1.0 to 3.0 microns</td>
</tr>
<tr>
<td>Initial Pressure Drop</td>
<td>Maintenance Cycle</td>
<td>Filter Media Size Nominal Part Number</td>
<td>G99 Airflow Indicator Gage</td>
<td>Warranty</td>
<td>APRILAIRE MODEL</td>
<td>SOURCE 1 MODEL</td>
<td>HONEYWELL MODEL</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------</td>
<td>-------------------------------------</td>
<td>---------------------------</td>
<td>----------</td>
<td>----------------</td>
<td>----------------</td>
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</tr>
<tr>
<td>NA</td>
<td>Prefilter &amp; Charcoal Filter Every Six Months</td>
<td>HMK500 Annual Repl. Kit</td>
<td>NA</td>
<td>NA</td>
<td>S1-HEPA300</td>
<td>F500A1000</td>
<td>NA</td>
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<tr>
<td></td>
<td>H.E.P.A. Every Two Years</td>
<td>HF500 H.E.P.A. Repl Filter</td>
<td>Intregal</td>
<td>2200</td>
<td>S1-MAC11202506</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>.22 in. w.c.</td>
<td>Every 12 Months</td>
<td>20 x 25 x 6 12758</td>
<td>Optional</td>
<td>2120</td>
<td>S1-MAC10162505</td>
<td>F100F1012</td>
<td>Supreme 1400</td>
</tr>
<tr>
<td></td>
<td>16 x 27 x 6 401-13156</td>
<td>4511</td>
<td>2140</td>
<td>S1-MAC10202505</td>
<td>F100F1038</td>
<td>Supreme 2000</td>
<td></td>
</tr>
<tr>
<td>.20 in. w.c.</td>
<td>Every 6 months</td>
<td>16 x 25 x 5 4501</td>
<td>Optional</td>
<td>20 x 25 x 5 4501</td>
<td>4521</td>
<td>16 x 25 x 3 4521</td>
<td>Optional</td>
</tr>
<tr>
<td>.23 in. w.c.</td>
<td>Every 6 months</td>
<td>16 x 25 x 5 4511</td>
<td>Optional</td>
<td>2120</td>
<td>S1-MAC10162505</td>
<td>F100F1012</td>
<td>Supreme 1400</td>
</tr>
<tr>
<td></td>
<td>20 x 25 x 5 4501</td>
<td>4521</td>
<td>2140</td>
<td>S1-MAC10202505</td>
<td>F100F1038</td>
<td>Supreme 2000</td>
<td></td>
</tr>
<tr>
<td>.23 in. w.c.</td>
<td>Every 6 Months</td>
<td>16 x 25 x 3 4521</td>
<td>Optional</td>
<td>20 x 25 x 3 4501</td>
<td>4521</td>
<td>16 x 25 x 3 4521</td>
<td>Optional</td>
</tr>
</tbody>
</table>
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.
**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
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:

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

<table>
<thead>
<tr>
<th>Range</th>
<th>Size</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.30 to 0.40</td>
<td>E1</td>
</tr>
<tr>
<td>2</td>
<td>0.40 to 0.55</td>
<td>E2</td>
</tr>
<tr>
<td>3</td>
<td>0.55 to 0.70</td>
<td>E3</td>
</tr>
<tr>
<td>4</td>
<td>0.70 to 1.00</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1.00 to 1.30</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.30 to 1.60</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1.60 to 2.20</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2.20 to 3.00</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>3.00 to 4.00</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>4.00 to 5.50</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>5.50 to 7.00</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>7.00 to 10.00</td>
<td></td>
</tr>
</tbody>
</table>

### Table 3: MERV Parameters

<table>
<thead>
<tr>
<th>Standard 52.2 Minimum Efficiency Reporting Value (MERV)</th>
<th>Composite Average Particle Size Efficiency, % in Size Range, µm</th>
<th>Average ASHRAE Arrestance, % by Standard 52.1 Method</th>
<th>Minimum Final Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range 1 (0.3-1.0)</td>
<td>Range 2 (1.0-3.0)</td>
<td>Range 3 (3.0-10.0)</td>
<td>PA</td>
</tr>
<tr>
<td>1</td>
<td>n/a</td>
<td>E3 &lt; 20</td>
<td>A_avg &lt; 65</td>
</tr>
<tr>
<td>2</td>
<td>n/a</td>
<td>E3 &lt; 20</td>
<td>65 &lt; A_avg &lt; 70</td>
</tr>
<tr>
<td>3</td>
<td>n/a</td>
<td>E3 &lt; 20</td>
<td>70 &lt; A_avg &lt; 75</td>
</tr>
<tr>
<td>4</td>
<td>n/a</td>
<td>E3 &lt; 20</td>
<td>75 &lt; A_avg</td>
</tr>
<tr>
<td>5</td>
<td>n/a</td>
<td>20 ≤ E3 &lt; 35</td>
<td>n/a</td>
</tr>
<tr>
<td>6</td>
<td>n/a</td>
<td>35 ≤ E3 &lt; 50</td>
<td>n/a</td>
</tr>
<tr>
<td>7</td>
<td>n/a</td>
<td>50 ≤ E3 &lt; 70</td>
<td>n/a</td>
</tr>
<tr>
<td>8</td>
<td>n/a</td>
<td>70 ≤ E3</td>
<td>n/a</td>
</tr>
<tr>
<td>9</td>
<td>n/a</td>
<td>E2 &lt; 50</td>
<td>85 ≤ E3</td>
</tr>
<tr>
<td>10</td>
<td>n/a</td>
<td>50 ≤ E2 &lt; 65</td>
<td>85 ≤ E3</td>
</tr>
<tr>
<td>11</td>
<td>n/a</td>
<td>65 ≤ E2 &lt; 80</td>
<td>85 ≤ E3</td>
</tr>
<tr>
<td>12</td>
<td>n/a</td>
<td>80 ≤ E2</td>
<td>90 ≤ E3</td>
</tr>
<tr>
<td>13</td>
<td>E1 ≤ 75</td>
<td>90 ≤ E2</td>
<td>n/a</td>
</tr>
<tr>
<td>14</td>
<td>75 ≤ E1 &lt; 85</td>
<td>90 ≤ E2</td>
<td>n/a</td>
</tr>
<tr>
<td>15</td>
<td>85 ≤ E1 &lt; 95</td>
<td>90 ≤ E2</td>
<td>n/a</td>
</tr>
<tr>
<td>16</td>
<td>95 ≤ E1</td>
<td>95 ≤ E2</td>
<td>n/a</td>
</tr>
</tbody>
</table>

*Information provided from the National Air Filtration Association*
UV Potency Required for Microbe Disinfection (measured as microWatt seconds per centimeter squared µW-sec/cm²)

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

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.

<table>
<thead>
<tr>
<th>Distance from Lamp</th>
<th>Potency Factor</th>
<th>Distance from Lamp</th>
<th>Potency Factor</th>
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<tbody>
<tr>
<td>0</td>
<td>354</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>127</td>
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<td>4</td>
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<tr>
<td>2</td>
<td>69</td>
<td>25</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>32</td>
<td>30</td>
<td>2</td>
</tr>
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<td>6</td>
<td>20</td>
<td>35</td>
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<td>14</td>
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<td>1</td>
</tr>
<tr>
<td>10</td>
<td>14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Aire Model</th>
<th>Lamp Length</th>
<th>Voltage</th>
<th>Lamp Output in Watts</th>
<th>HOTC Electronic Regulating Ballast</th>
<th>Max SQ FT Range</th>
<th>Lamp Potency µW/cm² @ 1 meter</th>
<th>Ballast Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUV100A83</td>
<td>16”</td>
<td>120/230</td>
<td>36</td>
<td>Yes</td>
<td>4500</td>
<td>180</td>
<td>5 year</td>
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<tr>
<td>GUV25403A</td>
<td>16”/5”</td>
<td>120/230</td>
<td>36/8</td>
<td>Yes</td>
<td>4500</td>
<td>180/12</td>
<td>5 year</td>
</tr>
<tr>
<td>PC02450</td>
<td>18”</td>
<td>120/230</td>
<td>50</td>
<td>Yes</td>
<td>4000</td>
<td>135</td>
<td>5 year</td>
</tr>
<tr>
<td>GUV2224</td>
<td>16”</td>
<td>24</td>
<td>22</td>
<td>–</td>
<td>2000</td>
<td>70</td>
<td>5 year</td>
</tr>
</tbody>
</table>
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.

Distributed by:

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