

# Model 1042LH

Legacy Series Flow Through Humidifiers  
Residential Whole-House (GFI #5144)

***Breathe Healthier***

## Control Indoor Humidity

Installing a GeneralAire® Whole House Humidifier can reduce allergy and asthma symptoms, minimize risk of infection, protect valuables (such as furniture, woodwork and musical instruments) and save you money.



### How the 1042LH Works:

Your furnace sends warm air through a water-soaked Vapor Pad® inside your humidifier, where it absorbs additional moisture. Newly-moistened air is then distributed throughout your home to provide healthier indoor air for you and your family.

Details inside or go to: [www.generalfilters.com/model1042LH](http://www.generalfilters.com/model1042LH)

### Install a humidifier in your home to:

#### Protect your family's health:

Low humidity is where viruses can thrive and cause your throat and nasal passages to dry. This leads to nose bleeds, increased risk of infection, colds, flu and other respiratory ailments. Dry air can trigger asthma and allergy symptoms. Air that's too dry causes dry/itchy/cracked skin.

#### Protect your valuables:

Dry air in your home can cause expensive artwork, wood flooring, cabinets, furniture and musical instruments to crack. Dry air increases annoying static shocks that can damage electronics.

#### Save money:

Since dry air can cause woodwork to crack, resulting gaps in windows & doors let cold outside air in. In addition, dry air feels colder. Take the chill out with a 1042LH. Turn your thermostat down and save money.

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## Why Whole-House Humidification Vs Portable Room Units?

See the top reasons below why a whole-house humidifier is a better option for your home than a portable unit:

|  | <b>GeneralAire® Model 1042LH<br/>Whole-House Humidifier</b>            | <b>Portable<br/>Humidifier Units</b>                                 |
|--|--|--|
| <b>Controls humidity in every room of your house</b> | Yes. You will benefit from proper humidification throughout your home. | No. You'll need to purchase a unit for every room in your house.     |
| <b>Quiet operation</b>                               | Yes. Your system will be so quiet you'll forget it's there.            | No. Portable units are noisy and take up space in your rooms.        |
| <b>Minimal maintenance</b>                           | Yes. Maintenance is only one time per year!                            | No. You'll need to constantly be re-filling and cleaning water pans. |

### Selecting a Humidifier

Considerations for selecting a whole house humidifier can include:

1. Size of your home
2. Number of HVAC systems in your home
3. Type of humidification preferred
4. Maintenance requirements
5. Age of your home
6. Your climate
7. Cost to operate
8. Home building / woodwork projects

We recommend speaking with a licensed contractor for assistance with your humidifier selection and installation. Use our "Find a Contractor" tool on [www.generalfilters.com](http://www.generalfilters.com) for a list of contractors in your area.

### Ideal Humidity Level

Research has shown that 40% to 60% relative humidity provides a comfortable *and healthy* environment for your woodwork, furniture, plants, your pets and especially you and your family.

### How Much Humidity Do I Need?

#### 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 Below)  
X 1.05 For Each Fireplace

#### Calculate Gallons Per Day (GPD)

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

### 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 |



Use the Humidification Calculator on our website to assist you in selecting the right humidifier for your home.

[www.generalfilters.com/humiditycalculator](http://www.generalfilters.com/humiditycalculator)



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**NEW!**

## MHX3 Manual Humidistat

*Included with Your 1042LH*



### Easy-to-Use Dial

Simply turn the dial to the desired humidity level for your comfort.

### Contemporary Design

## Maintenance

Maintenance of your new GeneralAire® 1042LH Legacy Series Flow Through Humidifier is minimal. To ensure peak performance and reliable operation, simply perform the following maintenance once per year: change your Vapor Pad® and clean mineral deposits from the water distribution trough and drain pan. The following solution is recommended: 1/2 water and 1/2 vinegar.

**Date of Installation:** \_\_\_\_\_

**Contractor's Contact Information:**

Manufacturers of Whole-House Residential Indoor Air Quality Products. In Business Since 1937.  
Humidifiers - Dehumidifiers - Air Cleaners - UV Air Purifiers - Heat/Energy Recovery Ventilators

[www.generalfilters.com](http://www.generalfilters.com)



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## Legacy Series Flow Through Humidifiers Residential Whole-House (GFI #5144)

| Model 1042LH Specifications |   |
|-----------------------------|---|
| Gallons Per Day             | 19  |
| Home Size                   | Up to 2,800 Sq. Ft.                       |
| Type                        | Flow Through Vapor Pad®                   |
| Unit Dimensions             | 15" W x 11 1/2" H x 9" D                  |
| Weight                      | 13 Lbs.                                   |
| Plenum Opening              | 10 1/4" W x 9 1/2" H                      |
| Duct Opening                | 6" (Assembly Supplied)                    |
| Operation                   | Water Evaporation Via Furnace Heat & Fan  |
| Valve                       | Saddle Valve & Solenoid Valve             |
| Evaporator Sleeve           | 990-13 GFI # 7002 (Replace Once Per Year) |
| Pallet Quantity             | 30  |
| Mounting                    | Return Air Duct or Warm Air Plenum        |
| Warranty                    | Five Years                                |



| 1042LH Performance Baseline Criteria |                |
|--------------------------------------|----------------|
| Outside Design Temp                  | 0° F (-18° C)  |
| Outside Design RH                    | 70%            |
| Inside Design Temp                   | 70° F (21° C)  |
| Inside Design RH                     | 30%            |
| Ceiling Height                       | 8'             |
| Plenum Temperature                   | 120° F (49° C) |
| Loose (.75 ACH)                      | 800            |
| Average (.50 ACH)                    | 1200           |
| Tight (.30 ACH)                      | 2000           |

- Test results are from cold water application
- GPD shown is at 140° Plenum Temperature
- Performance assumes 8 hour average furnace run time in 24-hour period.

### Inside the Box

- Model 1042LH Legacy Humidifier
- Warranty Card
- Installation Manual
- Paper Duct Cutout Templates
- Evaporator Pad
- Connecting Collar
- Damper
- 24 V Transformer
- 15' 5/8" Diameter Drain Hose
- Metal Distributor Tube
- Parts Bag With Solenoid Valve & Saddle Valve
- Drain Pan
- Water Distribution Trough
- MHX3 Manual Control, Duct Mount Humidistat. (Order part number #7053 to mount on wall.)



Purchase replacement parts from your local wholesaler, a licensed contractor or our website:

[www.generalfilters.com/parts](http://www.generalfilters.com/parts)



[www.generalfilters.com](http://www.generalfilters.com)



Our Other Brands



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