

The IdealHumidity™ Enhanced  
Comfort System Exclusively from Carrier



Turn to the Experts.™



*IdealHumidity*™

Superior Humidity Control, All Day, All Night, All Year Long

## Why Humidity is Important

Investing in a system that can maintain IdealHumidity™ will dramatically improve your comfort. If the humidity in your home is too high or low, it creates an ideal atmosphere for the growth of mold, mildew, bacteria, and viruses.

- The ideal relative humidity level for a home is usually between 40 and 60 percent. As the relative humidity in your home falls below or above this range the climate becomes more conducive to the issues listed in the chart below. For example, bacteria has a hard time flourishing when the relative humidity inside your home is between 30 and 60 percent. At 60 percent relative humidity, conditions are such that bacteria growth can occur.
- By investing in Carrier's IdealHumidity System that can control both high and low humidity, you can enjoy a more comfortable home and protect the investment you have already made in your home and its contents.

## Carrier Delivers Ideal Comfort

### Innovation

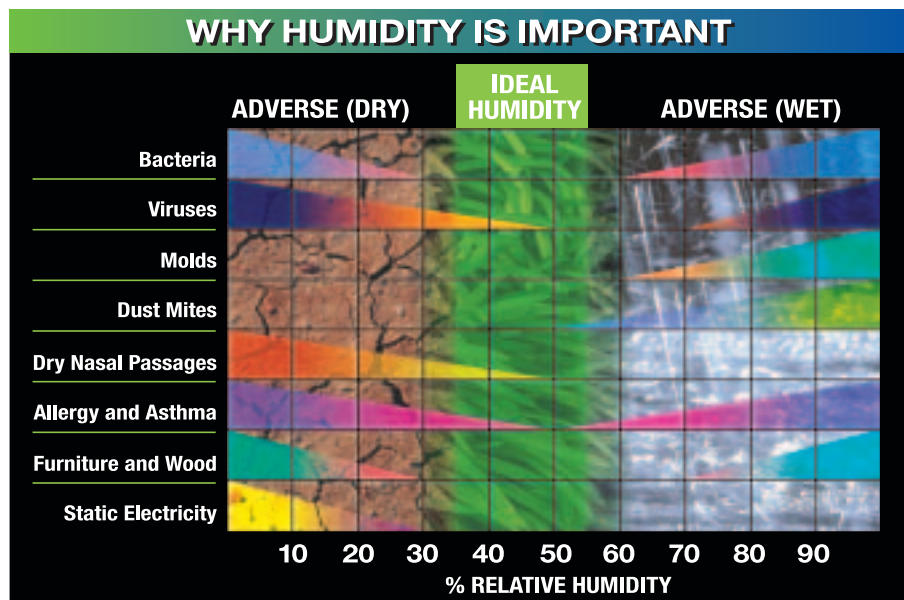
An IdealHumidity™ System actively controls both temperature and humidity in your home to maximize your comfort, all year long. All indoor comfort systems can provide some humidity control through heating or cooling operation. IdealHumidity from Carrier is the ONLY system that provides humidity control independent of heating or cooling demand to provide truly superior indoor comfort and energy savings.

Indoor humidity control is important because too much or too little moisture influences your comfort, your health, and the condition of your home's interior and furnishings. During the heating season, low humidity can cause dry skin and nasal passages, growth of bacteria and viruses, static electricity, damaged woodwork and more. Moisture evaporating from your skin makes you feel cooler than normal. During the cooling season, high humidity allows faster growth of bacteria, viruses, dust mites, mold and mildew; it causes painted surfaces to peel and woodwork to warp, buckle and rot; and it makes you feel hot and sticky. The Carrier IdealHumidity System minimizes these problems by maintaining proper humidity levels, allowing you to feel more comfortable all year long.

### Performance

Carrier is the ONLY manufacturer offering a system that can humidify or dehumidify even when there's no need for heating or cooling. Why is this so important? Here is one typical example: Humidity can build up inside your home at night when the system is not actively cooling. Because a standard system only dehumidifies while cooling, you wake up feeling hot and sticky. Another situation common in many parts of the country occurs when outdoor humidity levels are high but the temperature is below 80-85°. The air in the home is cooled, but humidity continues to build, leaving you feeling hot and sticky. When you turn down the thermostat for more cooling and humidity removal, you become cool and clammy. IdealHumidity adapts to these and other conditions to maintain the best possible combination of comfortable temperature and correct humidity. As a result, many people will find that they can enjoy higher temperatures in the summer and lower temperatures in the winter to save money on their cooling and heating costs.

IdealHumidity™ offers all of this performance with unmatched convenience and extra energy efficiency. Standard systems provide humidity control with a humidifier and a humidistat. Some systems can provide extra moisture removal with slower fan speeds. However, all of these systems require heating or cooling operation to help control humidity. None offer the convenience and precision of IdealHumidity—one system with one control that automatically adjusts operation for the best possible combination of temperature and humidity. And, none of those other systems are designed, built and backed by the best name in the business: Carrier.



**Humidifier** replenishes moisture to dry air.

**Evaporator Coil** allows the refrigerant to absorb heat from the air as it passes over the coil surface. The evaporator coil is located with the indoor unit and is also referred to as the indoor coil.

**Furnace or Fan Coil** provides reliable, high-efficiency heating for long-lasting comfort and energy savings.

**Air Cleaner** improves air quality by removing harmful and irritating airborne pollutants from your home.

**Ultraviolet Germicidal Lamp** reduces the amount of pollutants such as mold, bacteria, fungi and viruses, leaving your home with cleaner, fresher indoor air.

**Comfort Ventilator** combines fresh outdoor air with conditioned indoor air for improved air quality and maximum efficiency – great for today's tightly constructed home.

**Comfort Zoning** sets different temperatures for up to eight different areas of your home for truly customized comfort and enhanced utility savings.

**Air Conditioner or Heat Pump** provides reliable, high-efficiency cooling for long-lasting comfort and energy savings.

**Thermidistat™ Control** allows precise temperature control and programmable features to further customize your comfort.

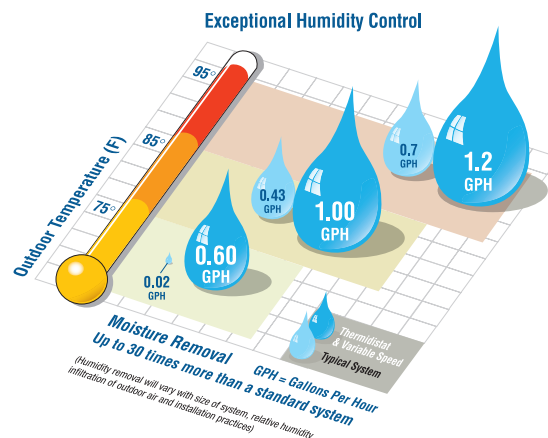
## Technology

Typical home comfort systems control humidity two ways: with a humidifier during heating, and with normal cooling operation. IdealHumidity™ controls humidity four ways:

- 1 Like typical systems, IdealHumidity adds moisture to the air during heating operation with the help of a humidifier. Carrier's Thermidistat™ Control adjusts humidity levels automatically to help prevent condensation on windows and doors.
- 2 Unlike typical systems, IdealHumidity adds moisture even when there is no need for heat. When humidity is low, the Thermidistat™ Control activates the humidifier and the system's blower for humidification without heating.
- 3 During cooling operation, all systems will dehumidify. To maintain the most comfortable level of humidity, IdealHumidity™ can automatically decrease fan speed for longer dehumidification cycles, or increase fan speed for the best cooling performance. Unlike other systems, IdealHumidity™ adapts to the needs of your home.
- 4 When cooling is not needed, IdealHumidity continues to monitor humidity levels in the home. As moisture in the air climbs above acceptable levels, the system turns on at very low fan speed to adjust humidity even when the Thermidistat™ Control is not calling for cooler temperatures.

## Design

Your Carrier dealer can configure an IdealHumidity™ System that makes the most sense for you. A complete IdealHumidity™ System will include a Carrier variable speed furnace or fan coil; a Carrier air conditioner or heat pump; or a variable speed packaged unit; a Carrier humidifier; and our patented Thermidistat™ Control. Your Carrier dealer will work with you to create the ideal system for your home.





## Turn to the Experts

Willis Carrier invented air conditioning in 1902. Over 100 years later, we're proud to say Carrier systems are trusted in more homes than any other brand.

Carrier continues to be on the forefront of innovative engineering and unsurpassed standards of excellence. So when choosing a home comfort system, you'll want to turn to the experts. Your Carrier dealer will evaluate your home, such as window placement and size, ductwork, other structural specifics and lifestyle to provide a customized indoor comfort plan designed specifically for you. And when you have an expert helping you make an educated decision, you're going to feel more comfortable.



Turn to the Experts.<sup>SM</sup>

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