

Honeywell

Few places on earth are
drier than this desert



One of them,
unfortunately,
is inside your
home.

Honeywell Whole-house Humidifiers:
Relief from the ravages of dry air



Warm, dry air acts soaking up moisture fro

In winter, the simple act of turning up the thermostat dries out your house. That's because warm, dry air acts like a giant sponge that soaks up moisture from everything it touches.

The unpleasant results: You experience dry skin, chapped lips and clogged sinuses. Hardwood floors separate at the seams. Woodwork and furniture shrink, warp and crack. The piano goes out of tune. Wallpaper peels at the edges.

Fact is that wintertime relative humidity inside the average home hovers around a bone-dry 15%.

By contrast, the average humidity in the Sahara Desert is 25%!

Fortunately, you can solve the problem by installing a Honeywell

whole-house humidifier. Honeywell humidifiers replenish the humidity in the air in a safe, water vapor form (no mist or droplets). They are the right choice for a more comfortable and healthy home.

Protect your home and your family from these ravages of dry air

Your home comes apart at the seams.

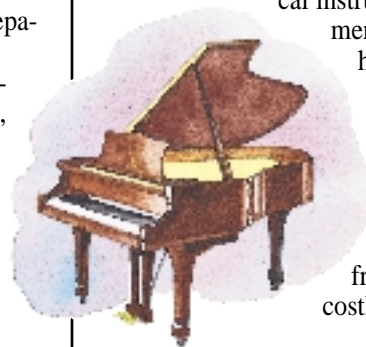
In winter you can literally watch your home come apart. Hardwood floors separate at the seams. Banisters wobble. Drawers loosen. Gaps appear in moldings. Furniture and collectibles shrink, warp and crack as moisture is sucked out of them by desert-dry indoor air.

The *National Wood Flooring Association* strongly recommends using a humidifier during the heating season to minimize wood movement and shrinkage.

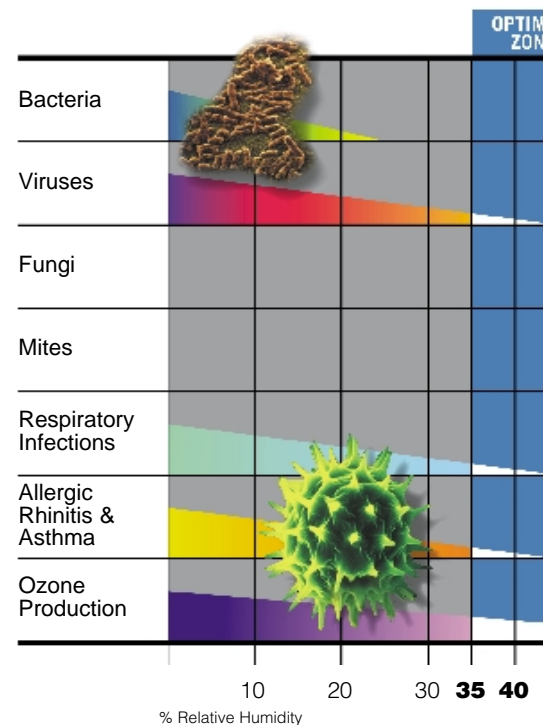
Musical instruments drift out of tune.

Desert-dry indoor air literally pulls moisture out of wooden musical instruments, which can cause them to shrink, crack and go out of tune. That's why companies making pianos, guitars and other fine wooden musical instruments recom-

mend the use of humidifiers. A humidifier not only preserves the beautiful finish, it can reduce the need for frequent and costly retuning.



Impact of Relative Humidity on Air Quality



like a giant sponge, soaks up everything it touches

Dry air aggravates upper respiratory problems. Itchy skin, dry throat coughs and cracked nasal membranes are all consequences of dry air. Cracked nasal membranes are a common cause of bloody noses, and can increase your risk of infection by bacteria and upper respiratory viruses. Many doctors recommend humidifiers to allergy and asthma sufferers as a way to relieve their symptoms.

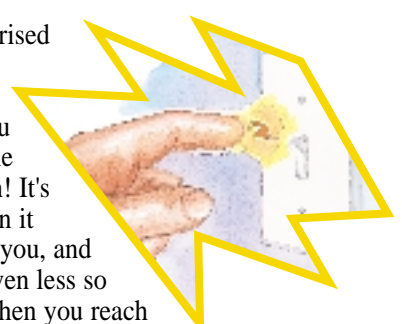


You feel colder, even with the thermostat turned up. Dry air makes you feel colder than the actual thermostat setting because evaporating moisture on your skin causes a cooling effect. A humidifier can help lower heating bills because humidified air feels warmer. For example, a 69 degree temperature at 35% relative humidity feels just as warm as a 72 degree setting at



19% relative humidity. Setting your thermostat back by three degrees can reduce annual heating bills by as much as 5 percent.

Static shocks “zap” you and sensitive equipment. How many times have you shuffled across the carpet, only to be rudely surprised by the crackle of static as you reach for the light switch! It's no fun when it happens to you, and



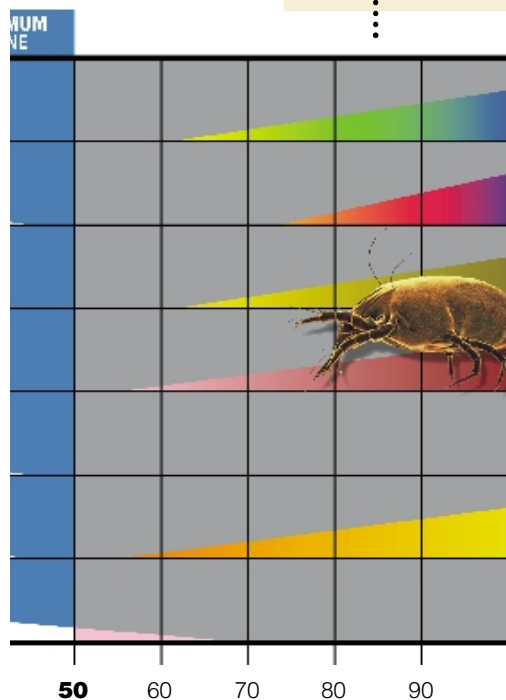
even less so when you reach out and “zap” a loved one. With the capacity to hold a static charge up to 20,000 volts, your body can also wreak havoc on home computers and other sensitive electronic devices. By maintaining indoor relative humidity at 35 percent or higher, static shocks are greatly reduced.

Humidify in the optimum zone to increase comfort, lower health risks

Studies show that by humidifying indoor air to optimal levels—in the range of 35% to 50% relative humidity—you are more comfortable and decrease health risks. Proper humidity: (1) Reduces static shocks. (2) Helps eliminate the itchy skin, dry throat coughs and cracked nasal membranes that make you uncomfortable. (3) Lowers your risk of infection by bacteria and viruses. (4) Reduces the possibility of allergic reactions or asthma attacks, and alleviates the symptoms.

BASED ON DATA PUBLISHED IN ASHRAE TRANSACTIONS

Quality



Relative humidity drops as outdoor air is heated.

In an average home, normal air infiltration around doors and windows completely replaces inside air about once every two hours. Heat that outdoor air to room temperature and its relative humidity plummets. For example, on a winter day with the outdoor relative humidity at 60 percent and outdoor temperature at 30 degrees, warming outside air to 70 degrees causes its relative humidity to drop to just 14 percent (see chart). By contrast, the average relative humidity for the Sahara Desert is 25 percent! No wonder that without a humidifier your home quickly becomes bone dry.

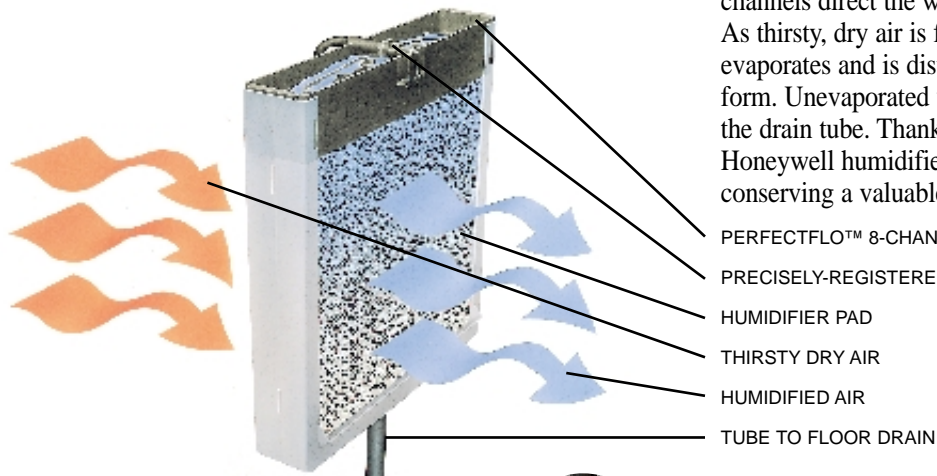
BASED ON A CHART BY THE NATIONAL WEATHER SERVICE

Outdoor/Indoor Relative Humidity Conversion Chart

100%	2	4	5	6	7	9	12	17	19	23	29	36	43	52
90%	2	3	4	5	6	8	11	15	16	21	26	31	39	48
80%	2	3	4	5	6	7	10	13	15	19	23	27	35	42
70%	1	2	3	4	5	6	9	11	13	17	20	24	31	36
60%	1	2	3	3	4	5	7	9	11	14	17	21	26	31
50%	1	1	2	3	3	4	6	8	9	12	14	18	22	26
40%	1	1	2	2	3	4	5	7	7	10	12	14	18	21
30%	0	1	2	2	2	3	4	5	6	7	9	11	13	15
20%	0	1	1	1	2	2	3	3	4	5	5	7	9	10
10%	0	0	0	1	1	1	2	2	2	3	3	3	4	6
0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-20°	-10°	-5°	0°	+5°	+10°	+15°	+20°	+25°	+30°	+35°	+40°	+45°	+50°

Outdoor Temperature In Degrees

How it works Water flows through the humidifier nozzle into the cleverly sloped PerfectFlo™ water distribution tray, where eight channels direct the water to flow evenly across the humidifier pad. As thirsty, dry air is forced through the wet pad some of the water evaporates and is distributed throughout your home in safe vapor form. Unevaporated water with dissolved minerals flushes down the drain tube. Thanks to an efficient water-usage scheme Honeywell humidifiers use up to 40% less water than other brands, conserving a valuable natural resource.



Humidifier comfort control options

Honeywell offers several controls for your humidifier. Your heating and cooling contractor will help select the one that's right for you.



Perfect Climate Comfort Center™ (PC8900)

Everything to do with your personal comfort — indoor temperature,

humidity, fan operation and ventilation — can be controlled by this easy to use device. It can even display the outdoor temperature.



Automatic Humidity Control (H1008)

Automatically optimizes indoor humidity to match variations in outdoor temperature. Helps protect your valuables and allow static-free living, while keeping condensation off windows.



Convertible Humidity (H908)

Dial your comfort setting. Mounts on wall or ductwork.

Got a question about Honeywell humidifiers? Go to: www.honeywell.com/yourhome/



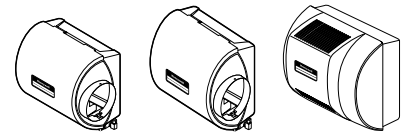
Easy maintenance

Honeywell recommends annual humidifier pad replacement, especially in areas with hard water. Replacing the pad takes only a minute or two. Loosen one thumbscrew and the cover easily lifts off. Remove the humidifier pad assembly, which unsnaps easily, and drop in the new pad. Replacement humidifier pads are available from your heating and air conditioning contractor.

A guide to Honeywell humidifiers

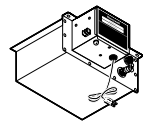
Bypass Flow-through Humidifiers Powered Flow-through Humidifier

Flow-through humidifiers are the most popular type (see above for how they work). Available in both flow-through bypass and powered types, they provide excellent performance and are low cost, low maintenance, and compatible with most home heating/cooling equipment. Our exclusive PerfectFlo™ water distribution tray wets the pad quickly to ensure even humidification and efficient water usage.



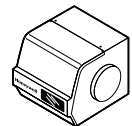
Steam Humidifiers

Steam humidifiers are the best choice for larger homes, for homes with high efficiency heating/cooling systems, for people with valuable antique or artwork collections, and for people with severe allergies and asthma who need precise humidification for health reasons. Steam humidifiers are capable of independently operating the furnace blower motor to distribute humidified air when needed.



Drum Humidifier

Drum humidifiers are best suited for homes without a drain located near the heating/cooling equipment, or for homes in areas where water costs are relatively high. Drum units rotate a pad through a reservoir of water, and warm air blows over the pad to evaporate the water. An optional flushing timer may be used to periodically clean minerals from the reservoir.



Honeywell

Home and Building Control

In the US: Honeywell, 1985 Douglas Drive North, Golden Valley, MN 55422-3992
In Canada: Honeywell Limited, 35 Dynamic Drive, Toronto, Ontario M1V 4Z9

