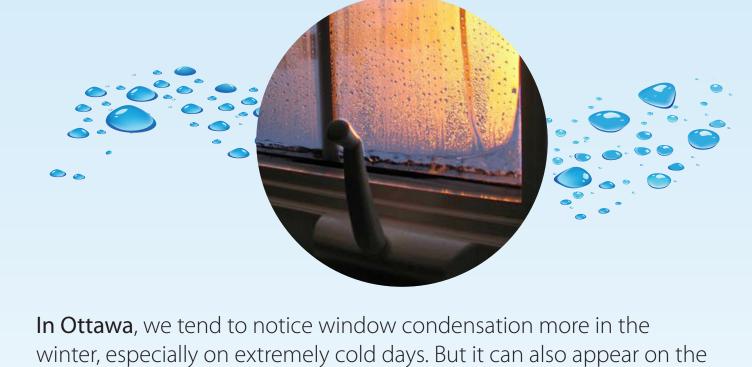
What's to know about condensation

Condensation is the process by which water vapour (gas) in the air turns to water (liquid) when hot air hits cold air or cold surfaces.

In nature, condensation creates clouds, fog and dew. But in the home it creates water buildup on less insulated surfaces (windows & window frames) that separate inside and outside air temperatures.

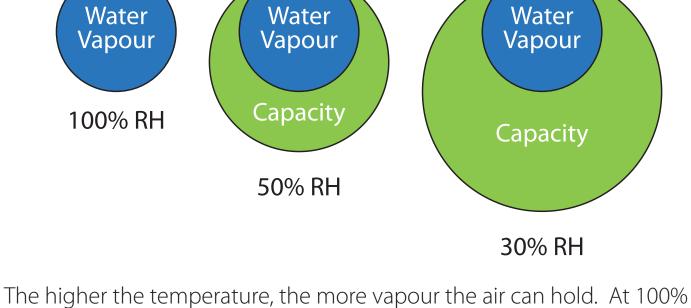


outside of a window in warmer months when we use air conditioners to cool the inside of our homes. The greater the amount of water in the air (humidity), and the higher the temperature differential between hot and cold air masses and the more

visible the effects of condensation. Relative humidity

Expressed as a percentage, relative humidity (RH) is a measurement that indicates the amount of vapour in the air relative to the temperature of

the air. 10° 20° 30°



the temperature at which water vapor (gas) will condense to a liquid as the air can no longer hold water.

relative humidity, the air has reached what is called a dew point, which is

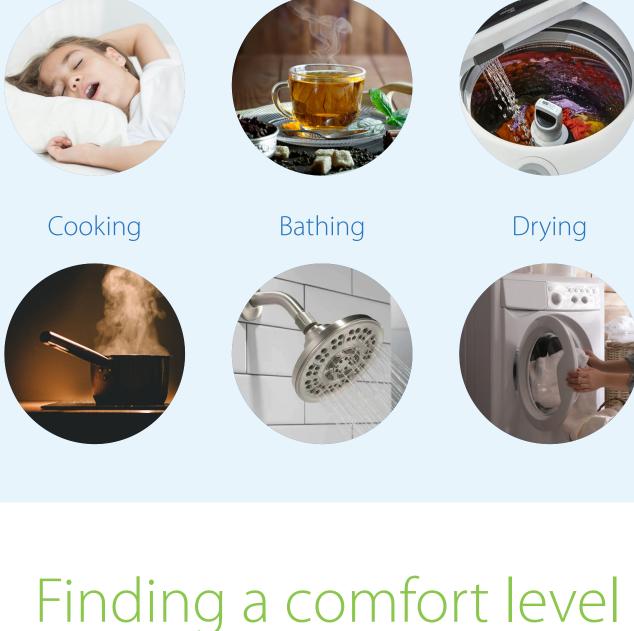
inside the home which can include:

Breathing Washing Hot beverages

Why so humid?

Humidity levels inside the home will naturally vary from season to season,

but daily humidity levels will vary depending on vapour producing activities

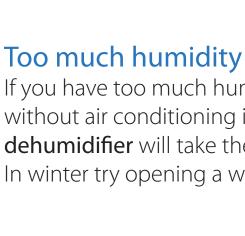


between 18°C to 24°C (65°F to 75°F). Finding a perfect balance can be a little difficult especially in older homes.

As a general comfort rule, the **recommended relative humidity level** in the home

should be maintained between 25% to 40% along with in-home temperatures

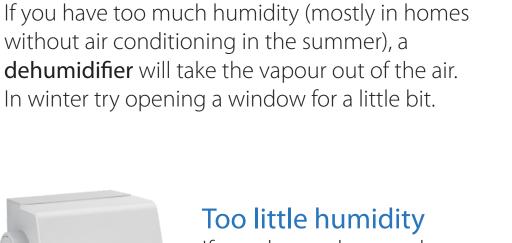
RELATIVE HUMIDITY (RH) % Comfort Zone Too Humid Too Dry 10 0 20 30 40 50 60 70 80 90 100

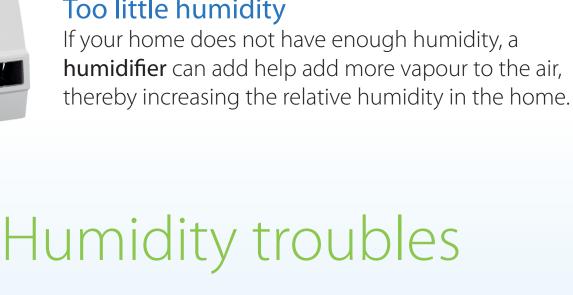


that can be used in the home to measure the level of relative humidity in the air.

Monitor humidity

Use a hygrometer - a relatively inexpensive device







Low levels of humidity on the condensation, mould, musty smells, other hand, especially in the winter allergic reactions and damage to will cause breathing difficulty, sore throat, static electricity and dry skin. walls and interior finishes. Allergies & difficulty Decay in wood

framing

Mould & mildew

Dry skin

breathing



Inside the wall damage



Dry and sore throat





New windows

If your current windows are over 20-25 years old, or if you have failing builder grade windows, the purchase of new windows will improve the condensation issues in your home. Window technology has progressed significantly over the last

25 years offering new insulation solutions to help combat and minimize condensation. But windows are far from perfect insulators between the inside of your home and extreme outdoor temperatures, so even in very extreme cold temperatures you can expect some level of condensation. To minimize condensation in your home:

• Purchase windows with the highest insulation rating as possible. Remember, not all brands are the same and some materials

- perform better than others. Ask if new triple-glazed windows will help increase the insulation properties of your windows. Keep your home at an optimized relative humidity level
- throughout the year. Ensure there is good airflow around your windows, open drapes
- www.bayviewwindows.ca

Have your windows installed by certified professionals.

and blinds during the day.



